EXHIBIT 1002

File History for US Patent 9,031,537

Part 2 of 2

a touch sensitive display screen configured to display data including video and text and to accept user input;

a global positioning module configured to provide device location information; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

18. (Original) The electronic wireless hand held multimedia device of claim 17, further comprising a cartridge reader configured to transfer data with an electronic cartridge.

19. (Previously amended) The electronic wireless hand held multimedia device of claim 17, further comprising a wireless infrared transceiver supporting bi-directional line-of-sight data communications of the electronic wireless hand held multimedia device over an infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

20. (Original) The electronic wireless hand held multimedia device of claim 17, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

21. (Original) The electronic wireless hand held multimedia device of claim 17, further comprising a security module enabling protected data management and communications security.

22. (Original) The electronic wireless hand held multimedia device of claim 17, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

23. (Currently amended) An electronic wireless hand held multimedia device, comprising:

[[a]] at least one of a wireless unit and tuner unit ~~cellular telecommunications transceiver~~ supporting bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks[[;]]

~~a wireless local area network transceiver supporting bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources,~~ over wireless local area networks[[;]]

~~a wireless Bluetooth transceiver supporting bi-directional data communications of the electronic wireless hand held multimedia device~~ and over a direct wireless connection with electronic devices located within short range using Bluetooth communications ~~from the electronic wireless hand held multimedia device~~;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a cartridge reader configured to transfer data with an electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

24. (Original) The electronic wireless hand held multimedia device of claim 23, further comprising a global positioning module configured to provide device location information.

25. (Previously amended) The electronic wireless hand held multimedia device of claim 23, further comprising a wireless infrared transceiver supporting bi-directional line-of-sight data communications of the electronic wireless hand held multimedia

device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

26. (Original) The electronic wireless hand held multimedia device of claim 23, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

27. (Original) The electronic wireless hand held multimedia device of claim 23, further comprising a security module enabling protected data management and communications security.

28. (Original) The electronic wireless hand held multimedia device of claim 23, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

29. (Currently amended) An electronic wireless hand held multimedia device, comprising:

[[a]] at least one of a wireless unit and tuner unit ~~cellular telecommunications transceiver~~ supporting bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks[[;]]

~~a wireless local area network transceiver supporting bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources,~~ over wireless local area networks[[;]]

~~a wireless Bluetooth transceiver supporting bi-directional data communications of the electronic wireless hand held multimedia device~~ and over a direct wireless connection with electronic devices located within short range using Bluetooth communications ~~from the electronic wireless hand held multimedia device~~;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a global positioning module configured to provide device location information;

a cartridge reader configured to receive and communicate with a electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

30. (Original) The electronic wireless hand held multimedia device of claim 29, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

31. (Original) The electronic wireless hand held multimedia device of claim 29, further comprising a security module enabling protected data management and communications security.

32. (Original) The electronic wireless hand held multimedia device of claim 29, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

33. (Previously amended) The electronic wireless hand held multimedia device of claim 29, further comprising a wireless infrared transceiver supporting bi-directional line-of-sight data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

34. (Currently amended) An electronic wireless hand held multimedia device, comprising:

[[a]] at least one of a wireless unit and tuner unit ~~cellular telecommunications transceiver~~ supporting bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks[[;]]

~~a wireless local area network transceiver supporting bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources,~~ over wireless local area networks[[;]]

~~a wireless Bluetooth transceiver supporting bi-directional data communications of the electronic wireless hand held multimedia device~~ and over a direct wireless connection with electronic devices located within short range using Bluetooth communications ~~from the electronic wireless hand held multimedia device~~;

a ~~fourth~~ wireless infrared transceiver ~~module configured to~~ supporting bi-directional line-of-sight data communications of the electronic wireless hand held multimedia device over an infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a cartridge reader configured to receive and communicate with a electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

35. (Original) The electronic wireless hand held multimedia device of claim 34, further comprising a global positioning module configured to provide location information for the electronic wireless hand held multimedia device.

36. (Currently amended) An electronic wireless hand held multimedia device, comprising:

[[a]] at least one of a wireless unit and tuner unit ~~cellular telecommunications transceiver~~ supporting bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks[[;]]

~~a wireless local area network transceiver supporting bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources,~~ over wireless local area networks[[;]]

~~a wireless Bluetooth transceiver supporting bi-directional data communications of the electronic wireless hand held multimedia device~~ and over a direct wireless connection with electronic devices located within short range using Bluetooth communications ~~from the electronic wireless hand held multimedia device~~;

a wireless infrared transceiver supporting bi-directional line-of-sight data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a global positioning module configured to provide location information for the electronic wireless hand held multimedia device;

a cartridge reader configured to receive and communicate with a electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

37. (Original) The electronic wireless hand held multimedia device of claim 36, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

38. (Original) The electronic wireless hand held multimedia device of claim 36, further comprising a security module enabling protected data management and communications security.

39. (Original) The electronic wireless hand held multimedia device of claim 36, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

REMARKS

I. Amendments.

In response to the office action dated September 19, 2013, independent claims 1, 9, 17, 23, 29, 34 and 36 have been amended in order to provide claim language with direct support in the parent specifications to which this application claims priority.

II. Priority is now firmly established within parent applications.

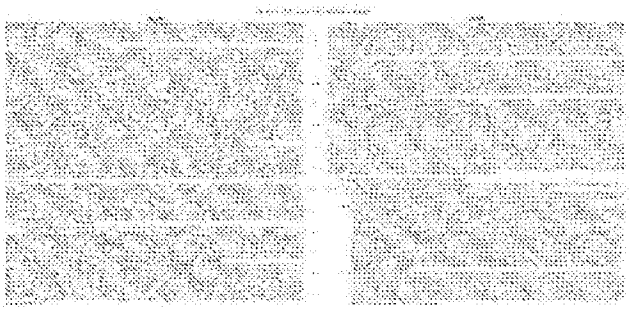
This response is being presented in response to the Office Action dated September 19, 2013. Examiner acknowledges Applicant's claim for the benefit of priority to prior-filed patent applications under 35 U.S.C. 119(e) or under 35 U.S.C. 120, 121, or 365(c). The Examiner, however, continues to assert that the Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 120 as follows. The Examiner mostly relies on Applicant's earlier referral to first, second third and fourth wireless transceivers as not being found in the prior applications. Applicant previously understood the issue raised by Examiner and amended the claims in the amendment dated January 5, 2011, which was filed together with a request for continued examination (RCE). The amendment was thought to have removed the unsupported language identified by Examiner.

In the September 19, 2013 office action, however, Examiner now asserts that the prior filed specifications to which the present application claims priority still do not provide support for the claimed "cellular telecommunications transceiver, wireless local area network transceiver, wireless Bluetooth transceiver and wireless infrared transceiver." Examiner then refers to items 62, 64, 66 and 68 listed in fig. 4 of Application No. 09/902,348. Applicant wishes to point out that the handheld devices taught in Applicant's patent specifications, however, do not solely depend or rely on the four modules (62, 64, 66 and 68) to provide cellular, WLAN,

Bluetooth or infrared communications. All the stated capabilities (cellular, WLAN, Bluetooth, Infrared) are clearly taught in the parent specification, and in particular by a combination of figs. 1 and 10 of Application 09/902,348. The four modules can be adapted to receive disparate data signals in accordance with the teachings in application No. 09/902,348.

Applicant has amended the independent claims to provide language that is more familiar within the parent specifications, but also provides the following supporting comments.

Flexible implementation of tuner units (analogous to modules 62, 64, 66, 68) is provided for in the specification. Referring to Colum 23, lines 2 through 10 state that at least one tuner, such as provided for by tuner unit 34 in fig. 1, and the various tuners can be linked to various signals such as transmission frequencies from camera hardware (e.g., short range RF, Bluetooth), wireless gateway (e.g., WiFi) or wireless network transmission (WiFi, Cellular networks):

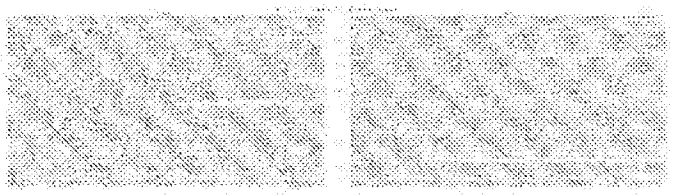


Referring to Fig. 1 of application 09/902,348, therein is illustrated an infrared transceiver 16, a wireless unit 17, and a tuner unit 34. Figs. 5 through 9 teach a wireless data transmitter/receiver 110 (which is also commonly referred to as "transceiver" to denote its transmitting-receiving capabilities).

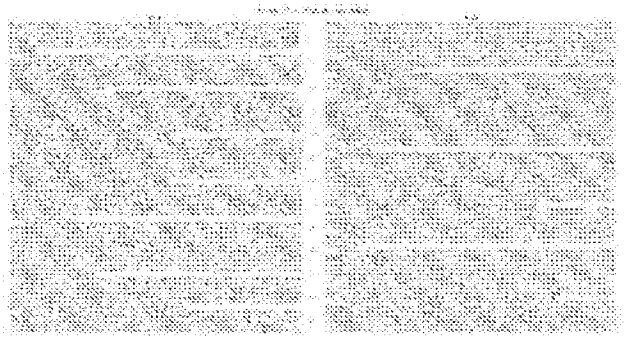
Referring to Fig. 10 of application 09/902,348, therein is illustrated the various communications standards that can be processed and communicated by either wireless unit 17 or tuner 34 as operating as wireless transceivers. The

standards are clearly labeled are cellular (e.g., CDMA, GSM, GPRS, etc.) and short-range wireless communications (e.g., Personal Area Networks such as WiFi/802.11 or Bluetooth). The wireless gateway 18 illustrated in Fig. 18 also clearly supports either short-range or cellular data communications with handheld devices.

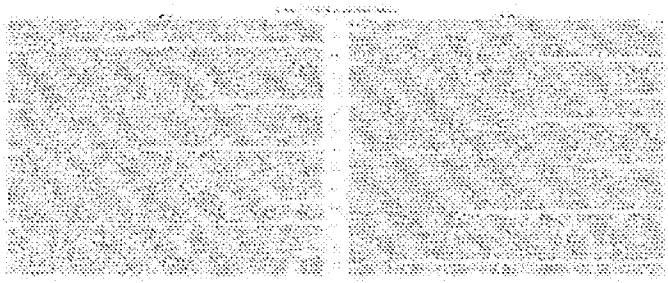
In column 6, lines 7 through 16 (shown below), it is also made clear in writing that data (images) can be transmitted to hand held devices through wireless unit 17:



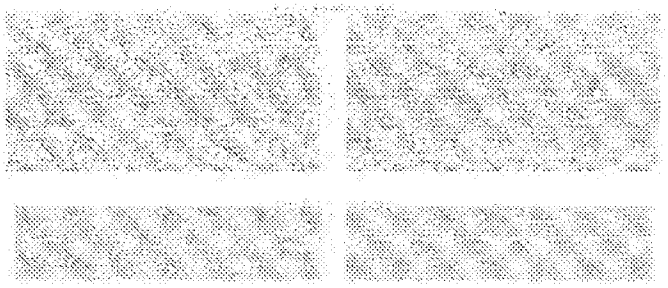
The flexibility of wireless unit 17 (equivalent to wireless data transmitter/receiver 110, see column 10, lines 15-16 "Note that wireless data transmitter/receiver 110 is analogous to wireless unit 17 of FIG. 1") to receive data via various wireless transmission, such as those specified in the wireless network 152 of fig. 10, is described in the specification in column 11, lines 26 through 35:



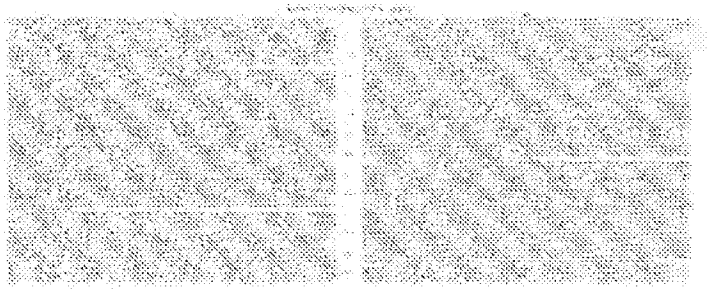
Column 13, lines 15 – 22 desribes how data can be transmitted via wireless network 152 to a wireless data transmitter/receiver integrated in a hand held device 60:



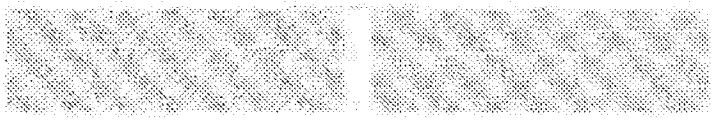
Referring to application No. 09/887,492, wireless infrared (IR 32), short-range radio frequency (RF 33) and mobile network wireless communications (NET 34) are clearly provided for as the communications means in the handheld device (6) described with respect to Fig. 3. As stated in column 8, line 63 through column 9, line :



Furthermore, GPS capabilities are provided for via a locator module (37), as stated in column 7, lines 40 through 47 column 9, lines 17 through 19:



and GPS is also referred to in column 9, lines 17 through 19:



The present application was submitted with claims for a patent over an invention that was well disclosed in the prior applications (09/902,348 and 09/887,492) being utilized for priority with Luis M. Ortiz as the common inventor in both parent applications, both applications also being unassigned at the time of the present application's filing. The disclosure of the invention claimed in the present claims is clearly supported by the parent applications, as demonstrated above, in the parent applications and together with the present application are sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112, and as decided required in the decision *Transco Products, Inc. v. Performance Contracting, Inc.*, 38 F.3d 551, 32 USPO2d 1077 (Fed. Cir. 1994).

Thus, the Applicant again submits that the disclosure of the present invention in either of the parent applications dating back to the year 2000 is sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. Applicant thus submits that the Applicant has in fact complied with one or more conditions for receiving the benefit of the earlier filing date(s) under 35 U.S.C. 120. For the

foregoing reasons, the Applicant traverses Examiner's rejection of the claims under 35 USC 112, paragraph 1, as failing to be supported or enabled by the parent applications, serial no. 09/902,348 and serial no. 09/887,492.

III. Claim Rejections – 35 U.S.C. § 103

Claims 1, 2, 6, 8-10, 13, 15, 17, 19 and 21 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran (U.S. Patent Publication No. 2007/0275746) in view of Wecker et al. (U.S. Patent No. 6,289,464).

Claims 3, 11, 18, 23-25, 27, 29, 31, 33-36 and 38 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al further in view of Dyer et al (U.S. Patent No. 4,433,387).

Claims 5, 14 and 20 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Rautila et al (U.S. Patent No. 6,549,625).

Claims 26, 30 and 37 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Dyer et al. furhte in view of Rautila et al.

Claims 7, 16 and 22 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Purdy et al. (U.S. Patent No. 5,726,660).

Claims 28, 32 and 39 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Dyer et al. furhte in view of Rautila et al.

Bitran fails as a reference based on lack of priority.

Bitran was filed well after the priority date for application serial nos. 09/902,348 and 09/887,492. Bitran was filed as a provisional patent application, serial no. 60/803,192, on May 25, 2006. Applicant's invention, on the other hand,

traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been filed at least prior to October 26, 2000. Because Bitran was filed in 2006, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn from consideration.

Applicant has provided clear support for a filing date no later than October 26, 2000 in the foregoing remarks regarding sufficiency of priority. Birtan fails as a reference that can be used under 35 USC 103 to reject all of the pending claims because of its later filing date.

In light of Applicant's amendments being submitted herewith and based on the remarks also contained herein, the rejections are respectfully traversed.

IV. Conclusion

In view of the foregoing amendments and remarks about what is believed to have been a favorable examiner interview, Applicants believe they have responded to each and every rejection of the Official Action. The Applicants have clarified the structural distinctions of the present invention and have attempted to accurately characterize the cited references in their remarks. Applicants respectfully request the withdrawal of the aforementioned rejections based on the amendments and remarks. Reconsideration and early allowance of Applicants' application is also respectfully solicited.

The Examiner is respectfully requested to contact the undersigned representative to conduct an interview in an effort to expedite prosecution in connection with the present application should there be any outstanding matters that need to be resolved in the present application.

Respectfully submitted,

/LUIS M. ORTIZ/

Dated: February 7, 2014

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Electronic Patent Application Fee Transmittal

Application Number:	12257205
Filing Date:	23-Oct-2008
Title of Invention:	ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE
First Named Inventor/Applicant Name:	Luis M. Ortiz
Filer:	Luis Melisandro Ortiz/Kemlyn Evans
Attorney Docket Number:	1000-3296

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 2 months with $0 paid	2252	1	300	300

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
			Total in USD ($)	300

Electronic Acknowledgement Receipt

EFS ID:	18141091
Application Number:	12257205
International Application Number:	
Confirmation Number:	8613
Title of Invention:	ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE
First Named Inventor/Applicant Name:	Luis M. Ortiz
Customer Number:	64064
Filer:	Luis Melisendro Ortiz/Kemlyn Evans
Filer Authorized By:	Luis Melisendro Ortiz
Attorney Docket Number:	1000-2296
Receipt Date:	07-FEB-2014
Filing Date:	23-OCT-2008
Time Stamp:	09:13:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$300
RAM confirmation Number	10467
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1	Amendment/Req. Reconsideration-After Non-Final Reject	2296_Response_Feb_2014.pdf	648995	no	20
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30305	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	679300		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (08-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 12/257,205	Filing Date 10/23/2008	☐ To be Mailed

ENTITY: ☐ LARGE ☒ SMALL ☐ MICRO

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)			
FOR	NUMBER FILED	NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED – PART II

	(Column 1)		(Column 2)	(Column 3)		
AMENDMENT	02/07/2014	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 37	Minus	** 39	=	x $ =	
	Independent (37 CFR 1.16(h))	* 7	Minus	***7	=	x $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

	(Column 1)		(Column 2)	(Column 3)		
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=	x $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x $ =	
	☐ Application Size Fee (37 CFR 1.16(s))						
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						
						TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

LIE
/KATRINA . TURNER/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Luis M. Ortiz et al.	**Group:**	2653
Serial No.:	12/257,205	**Examiner:**	Md S. Elahee
Filed:	10/23/2008	**Atty Docket No.:**	1000-2296
Title:	ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE		

TRANSMITTAL OF SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The following sections are being submitted for this Supplemental Information Disclosure Statement:

1. Preliminary Statements.

The patents, publications or other information provided herewith via this Supplemental Information Disclosure Statement may or may not be material to the patentability of the claims under consideration in this application and in respect of which there may be a duty to disclose under 37 C.F.R. § 1.56.

The items submitted with this IDS first came to our attention via the the document "MLB Advanced Media, L.P.'s Answers and Counterclaims to Plaintiff Front Row Technologies, LLC's Fourth Amended Complain," in Case No. 1:10-cv-00433-JB-KBM, In The United States District Court for the District of New Mexico on 10/23/2013. Out of an abundance of caution, Applicant is submitting this IDS.

The following references are thus being submitting herewith:

Contact, No. 8 May 18 2000 (Publication for Ericsson Employees)

Contact, No. 14, Sept 16, 1999 (Publication for Ericsson Employees)

Contact, No. 3, March 2 2000 (Publication for Ericsson Employees)

PDA's Bring Sports Fans Closer to Athletes, Information Week, Dec 14, 2001

Wireless Gadgets Give Sports Fan Closer Look, NewsRoom, Stockholm, Dec 14, 2001

Out of an abundance of caution, the following patent documents are also being submitted in response to counterclaims and answers proferred by Defendants in the above-identified litigation:

Appeal Decision and Transcript, U.S. Patent Application Serial No. 10/620,098
U.S. Patent Application Serial No. 60/243,561, File Wrapper History
U.S. Patent Application Serial No. 09/708,776, File Wrapper History
U.S. Patent Application Serial No. 09/902,348, File Wrapper History
U.S Patent Application Serial No. 12/819,609, File Wrapper History
U.S. Patent Application Serial No. 12/893174, File Wrapper History
U.S. Patent Application Serial No. 10/015,458, File Wrapper History
U.S. Patent Application Serial No. 11/738,088, File Wrapper History
U.S. Patent Application Serial No. 10/620,098, File Wrapper History
U.S. Patent Application Serial No. 12/237,629, File Wrapper History
U.S. Patent Application Serial No. 11/498,415, File Wrapper History
U.S. Patent Application Serial No. 12/210,971, File Wrapper History
U.S. Patent Application Serial No. 13/844,122, File Wrapper History
U.S Patent Application Serial No. 13/364,793, File Wrapper History
U.S. Patent Application Serial No. 11/858,087, File Wrapper History
U.S. Patent Application Serial No. 11/864,087, File Wrapper History
U.S. Patent Application Serial No. 12/410,391, File Wrapper History
U.S Patent Application Serial No. 12/259,189, File Wrapper History
U.S. Patent Application Serial No. 12/329,631, File Wrapper History
U.S. Patent Application Serial No. 12/884,810, File Wrapper History
U.S Patent Application Serial No. 12/884,858, File Wrapper History
U.S. Patent Application Serial No. 13/307,276, File Wrapper History
U.S. Patent Application Serial No. 13/314,385, File Wrapper History
U.S. Patent Application Serial No.13/402,356, File Wrapper History
U.S. Patent Application Serial No. 13/403,231, File Wrapper History
U.S. Patent Application Serial No. 12/873,714, File Wrapper History
U.S. Patent Application Serial No. 14/032,683, File Wrapper History
U.S. Patent Application Serial No. 12/871,150, File Wrapper History
U.S. Patent Application Serial No. 12/871,182, File Wrapper History
U.S. Patent Application Serial No. 12/257,205, File Wrapper History

The filing of this Supplemental Information Disclosure Statement shall not be construed as a representation that a search has been made (37 CFR § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56 (37 C.F.R. § 1.97(h)), or that no other material information exists.

The filing of this Supplemental Information Disclosure Statement is also not to be construed as a representation that the references are prior art within the meaning of 35 U.S.C. §§ 102 or 103. Further, any explanation, if provided, is not to be construed as a representation that the references have been thoroughly reviewed. In particular, no representation as to the relevance of any portion of any reference is intended.

The filing of this Supplemental Information Disclosure Statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

2. Form PTO/SB/08B, List of Prior Art Cited by Applicant is submitted herewith.

3. The person making this statement is the attorney who signs below on the basis of the information supplied by the inventor(s) and the information in the attorney's file.

4. Attached hereto is the fee set forth under 37 C.F.R. § 1.17(p) for submission of this Information Disclosure Statement under 37 C.F.R. § 1.97(c).

Date: November 6, 2013

/Kermit D. Lopez/

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

COMPLETE IF KNOWN	
Application Number	12/257,205
Filing Date	10/23/2008
First Named Inventor	Luis M. Ortiz
Group Art Unit	2853
Examiner Name	Md S. Elahee
Attorney Docket Number	1000-2298

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		BILLINGHURST, K., "Wireless Internet adds a new dimension," Contact Magazine (1999) No. 14, Ericsson, Exhibit 2 of Case No. 1:10-cv-00433-JB-KBM, 3 pages.	
		GEORGE, T., "POAs Bring Sports Fans Closer to Athletes," InformationWeek (2001) Dec. 14, http://www.informationweek.com/story/IWK20011213S0018, Exhibit 4 of Case No. 1:10-cv-00433-JB-KBM, 2 pages.	
		STRUPCZEWSKI, J. "Wireless gadgets give sports fans closer look," 12/14/01 Reuters News 12:50:05, Exhibit 5 of Case No. 1:10-cv-00433-JB-KBM, 4 pages.	
		TAMM, G., "100,000 following sailing on the net," Contact (2000) No. 3, March 3, Ericsson, Exhibit 3 of Case No. 1:10-cv-00433-JB-KBM, 3 pages.	
		TAMM, G., "Mobile Internet takes you to the ice," Contact (2000) No. 8, May 18, Ericsson, Exhibit 1 of Case No. 1:10-cv-00433-JB-KBM, 3 pages.	
		Appeal Decision and Transcript, U.S. Patent Application Serial No. 10/620,098, dated 01/29/2010 and 02/02/2010, 19 pages.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

[1] Applicant's unique citation designation number (optional). [2] Applicant is to place a check mark here if English language Translation is attached.

Electronic Patent Application Fee Transmittal	
Application Number:	12257205
Filing Date:	23-Oct-2008
Title of Invention:	ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE
First Named Inventor/Applicant Name:	Luis M. Ortiz
Filer:	Kermit Dean Lopez/Kemlyn Evans
Attorney Docket Number:	1000-2396
Filed as Small Entity	

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Submission- Information Disclosure Stmt	2806	1	90	90
		Total in USD ($)		**90**

Electronic Acknowledgement Receipt

EFS ID:	17338764
Application Number:	12257205
International Application Number:	
Confirmation Number:	8613
Title of Invention:	ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE
First Named Inventor/Applicant Name:	Luis M. Ortiz
Customer Number:	64064
Filer:	Kermit Dean Lopez/Kamlyn Evans
Filer Authorized By:	Kermit Dean Lopez
Attorney Docket Number:	1000-2296
Receipt Date:	06-NOV-2013
Filing Date:	23-OCT-2008
Time Stamp:	13:26:47
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	$90
RAM confirmation Number	11097
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1	Transmittal Letter	2296_Supp_IDS_Nov_2013.pdf	78565	no	4
Warnings:					
Information:					
2	Non Patent Literature	173_Exhibit_1.pdf	492818	no	3
Warnings:					
Information:					
3	Non Patent Literature	173_Exhibit_2.pdf	830864	no	3
Warnings:					
Information:					
4	Non Patent Literature	173_Exhibit_3.pdf	798241	no	3
Warnings:					
Information:					
5	Non Patent Literature	173_Exhibit_4.pdf	39981	no	2
Warnings:					
Information:					
6	Non Patent Literature	173_Exhibit_5.pdf	50883	no	4
Warnings:					
Information:					
7	Non Patent Literature	Decision_10620898.pdf	703713	no	18
Warnings:					
Information:					
8	Fee Worksheet (SB06)	fee-info.pdf	30244	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	3023807		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/257,205	10/23/2008	Luis M. Ortiz	1000-2206	6013

64094 7590 09/10/2013

ORTIZ & LOPEZ, PLLC
P.O. BOX 4484
ALBUQUERQUE, NM 87196-4484

EXAMINER
ELAHEE, MD S

ART UNIT	PAPER NUMBER
2653	

NOTIFICATION DATE	DELIVERY MODE
09/10/2013	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@olpatentlaw.com

PTOL-90A (Rev. 04/07)

Office Action Summary	Application No. 12/257,305	Applicant(s) ORTIZ ET AL.	
	Examiner MD S. ELAHEE	Art Unit 2853	AIA (First Inventor to File) Status No

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *03* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133)
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *01/05/2011*.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

5)☒ Claim(s) *1-3,5-11 and 13-39* is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6)☐ Claim(s) _____ is/are allowed.

7)☒ Claim(s) *1-3,5-11 and 13-39* is/are rejected.

8)☐ Claim(s) _____ is/are objected to.

9)☐ Claim(s) _____ are subject to restriction and/or election requirement.

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to PPHfeedback@uspto.gov.

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some * c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)

2) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____

4) ☐ Other: _____

The present application is being examined under the pre-AIA first to invent provisions.

DETAILED ACTION

Response to Amendment

1. This action is responsive to an amendment filed on 01/05/2011. Claims 1-3, 5-11 and 13-39 are pending. Claims 4 and 12 have been already cancelled.

Response to Arguments

2. Applicant's arguments in the 01/05/2011 Remarks have been fully considered but they are not persuasive because of the following:

Regarding priority, the applicant argues on pages 12-16 that the disclosure of applicant's invention in either of the parent applications dating back to the year 2000 is sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. Examiner respectfully disagrees with the applicant. It is because, examiner could not find any support in any of the prior applications for the claimed **cellular telecommunications transceiver, wireless local area network transceiver, wireless bluetooth transceiver and wireless infrared transceiver** (see independent claims of instant application). In fig.4 of prior-filed application, Application No. 09/902,348 (now patent No. 7,812,856), items 62, 64, 66 and 68 are all tuners where user can access to retrieve real time video images (see col.9, lines 46-58). However, none of them are the claimed transceivers. In fig.2 of prior-filed application, Application No. 09/887492 (now patent No. 7,630,721) item 23 in Fig.2 is a communication means that can communicate to network 28

in Fig.2 through using any of protocols of IR, RF etc. However, there is no separate transceivers (i.e., claimed four separate transceivers) for communication (see col.7, line 50-col.8, line 11) as claimed.

Thus, the rejection of the claims will remain.

Priority

3. Applicant's claim for the benefit of a prior-filed application under 35 U.S.C. 119(e) or under 35 U.S.C. 120, 121, or 365(c) is acknowledged. Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 120 as follows:

The later-filed application must be an application for a patent for an invention which is also disclosed in the prior application (the parent or original nonprovisional application or provisional application). The disclosure of the invention in the parent application and in the later-filed application must be sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. See *Transco Products, Inc. v. Performance Contracting, Inc.*, 38 F.3d 551, 32 USPQ2d 1077 (Fed. Cir. 1994).

The disclosure of the prior-filed applications, Application No. 09/887492 and 09/902,348, fail to provide adequate support or enablement in the manner provided by the first paragraph of 35 U.S.C. 112 for one or more claims of this application. The claimed wireless cellular telecommunications transceiver, wireless local area network transceiver, wireless bluetooth transceiver and wireless infrared transceiver (see independent claims of instant application) were not found in both of the prior applications. Furthermore, the disclosed Fig.1(c)

and its supporting discloser in the instant application were not supported by both of the prior applications.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 1, 2, 6, 8-10, 13, 15, 17, 19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran (U.S. Pub. No. 2007/0275746) in view of Wecker et al. (U.S. Patent No. 6,289,464).

Regarding claims 1 and 9, with respect to Figures 1-3, Bitran teaches an electronic wireless hand held multimedia device, comprising:

a wireless cellular telecommunications transceiver supporting bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks (fig.1; page 1, paragraphs 0003-0004, 0010, page 2, paragraphs 0026-0027, page 3, paragraph 0041-0043, 0045) (Note: the 802.11 (see paragraphs 0003-0004) is an IEEE standard that allows devices such as laptop computers or cellular phones to join a wireless LAN widely used in the home, office and some commercial establishments. Bitran further teaches establishing a first communication session over a first connection between a wireless terminal and a base station (BS) of a long-range wireless data network (see paragraph 0010). It clearly means that Bitran teaches cellular telecommunications transceiver.);

Bitran further teaches a wireless local area network transceiver supporting bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks (fig.1; page 1, paragraphs 0003-0008, 0010, 0014, 0015, page 2, paragraphs 0026-0027, page 3, paragraph 0041-0043, 0045);

Bitran further teaches a wireless bluetooth transceiver supporting bi-directional data communications of the electronic wireless hand held multimedia device over a direct wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device (fig.1; page 1, paragraphs 0003-0008, 0010, 0014, 0015, page 2, paragraphs 0026-0027, page 3, paragraph 0041-0043, 0045);

Bitran further teaches a user interface configured to accept user input into the electronic wireless hand held multimedia device (page 16, paragraph 0085, page 9, paragraph 0120) and

Bitran further a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device (fig.2).

Bitran further teaches a display screen configured to display data received by the electronic wireless hand held multimedia device (fig.1). However, Bitran does not specifically teach displayed data including video and text. Wecker teaches that displayed data includes video and text (fig.2; col.9, line 54-col.10, line 12, col.10, line 60-col.11, line 5). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran to incorporate displayed data including video and text in Bitran's invention as taught by Wecker. The motivation for the modification is to do so in order to transmit multimedia message such that a mobile user can get benefit out of the multimedia message.

Regarding claims 2 and 10, Bitran, as applied to claims 1 and 9, does not specifically teach a global positioning module configured to provide location information for the electronic wireless hand held multimedia device. Wecker teaches a global positioning module configured to provide location information for the electronic wireless hand held multimedia device (fig.2;

col.9, line 54-col.10, line 12, col.10, line 60-col.11, line 5). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran to incorporate the feature of providing location information by a global positioning module for the electronic wireless hand held multimedia device in Bitran's invention as taught by Wecker. The motivation for the modification is to do so in order to filter messages such that a mobile user can get receive desired message based on his choice.

Regarding claims 6, 15 and 21, Bitran, as applied to claims 1, 9 and 17, teaches a security module enabling protected data management and communications security (page 1, paragraph 0005).

Regarding claims 8, 13 and 19, Bitran, as applied to claims 1, 9 and 17, does not specifically teach a wireless infrared transceiver supporting bi-directional line of sight data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device. Wecker teaches a wireless infrared transceiver supporting bi-directional line of sight data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device (col.4, lines 38-42). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran to incorporate a wireless infrared transceiver supporting bi-directional line of sight data communications of the electronic wireless hand held multimedia device over an Infrared wireless

connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device in Bitran's invention as taught by Wecker. The motivation for the modification is to do so in order to communicate with other devices through Infrared communication mechanism.

Claim 17 is rejected for the same reasons as discussed above with respect to claims 1 and 2.

8. Claims 3, 11, 18, 23-25, 27, 29, 31, 33-36 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Dyer et al. (U.S. Patent No. 4,433,387).

Regarding claims 3, 11 and 18, Bitran, as applied to claims 1, 9 and 17, in view of Wecker does not specifically teach a cartridge reader configured to transfer data with an electronic cartridge. Dyer teaches a cartridge reader configured to transfer data with an electronic cartridge (col.13, lines 20-30). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran in view of Wecker to incorporate a cartridge reader configured to transfer data with an electronic cartridge in Bitran's invention in view of Wecker's invention as taught by Dyer. The motivation for the modification is to do so in order to clear the space of storage of the cartridge such that it can be used for future data.

Claim 23 is rejected for the same reasons as discussed above with respect to claims 1 and 3.

Claims 24 and 35 are rejected for the same reasons as discussed above with respect to claim 2.

Claims 25 and 33 are rejected for the same reasons as discussed above with respect to claim 8.

Claims 27, 31 and 38 are rejected for the same reasons as discussed above with respect to claim 6.

Claim 29 is rejected for the same reasons as discussed above with respect to claims 1-3.

Claim 34 is rejected for the same reasons as discussed above with respect to claims 1, 3 and 8.

Claim 36 is rejected for the same reasons as discussed above with respect to claims 1-3 and 8.

9. Claims 5, 14 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Rautila et al. (U.S. Patent No. 6,549,625).

Regarding claims 5, 14 and 20, Bitran, as applied to claims 1, 9 and 17, in view of Wecker does not specifically teach a mobile payment module enabling mobile payments via a variety of billing arrangements. Rautila teaches a mobile payment module enabling mobile payments via a variety of billing arrangements (col.4, lines 41-48). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran in view of Wecker to incorporate a mobile payment module enabling mobile payments via a variety of billing arrangements in Bitran's invention in view of Wecker's invention as taught by Rautila. The motivation for the modification is to do so in order to clear the space of storage of the cartridge such that it can be used for future data.

10. Claims 26, 30 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Dyer et al. further in view of Rautila et al. (U.S. Patent No. 6,549,625).

Claims 26, 30 and 37 are rejected for the same reasons as discussed above with respect to claim 5.

11. Claims 7, 16 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Purdy et al. (U.S. Patent No. 5,726,660).

Regarding claims 7, 16 and 22, Bitran, as applied to claims 1, 9 and 17, in view of Wecker does not specifically teach a video camera enabling the capture, storage, processing and transmission of video and pictures. Purdy teaches a video camera enabling the capture, storage, processing and transmission of video and pictures (abstract; col.1, line 66-col.2, line 21). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran in view of Wecker to incorporate a video camera enabling the capture, storage, processing and transmission of video and pictures in Bitran's invention in view of Wecker's invention as taught by Purdy. The motivation for the modification is to do so in order to collect pictures and video that are important for a mobile user such that he can transmit them to a particular user.

12. Claims 28, 32 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Dyer et al. further in view of Raunila et al. (U.S. Patent No. 6,549,625).

Claims 28, 32 and 39 are rejected for the same reasons as discussed above with respect to claim 7.

Conclusion

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MD S. ELAHEE whose telephone number is (571)272-7536. The examiner can normally be reached on MON-FRI.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, FAN TSANG can be reached on (571)272-7547. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/MD S ELAHEE/
MD SHAFIUL ALAM ELAHEE
Primary Examiner
Art Unit 2653
September 16, 2013

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S63	87460	short adj range	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/15 16:52
S64	53381	long adj range	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/15 16:52
S65	9729	S63 with S64	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2013/09/15 16:52
S66	1242	cellular with S65	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/09/15 16:52
S67	9472	455/41.1-41.3.cds.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/09/15 16:53
S68	82	S67 and S66	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2013/09/15 16:53

9/15/2013 9:59:51 PM
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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12257205	ORTIZ ET AL.
	Examiner	Art Unit
	MD S ELAHEE	2653

CPC- SEARCHED		
Symbol	Date	Examiner

CPC COMBINATION SETS - SEARCHED		
Symbol	Date	Examiner

US CLASSIFICATION SEARCHED			
Class	Subclass	Date	Examiner
455	41.1-41.3	9/15/2013	ME

SEARCH NOTES		
Search Notes	Date	Examiner
East	9/15/2013	ME

INTERFERENCE SEARCH			
US Class/ CPC Symbol	US Subclass / CPC Group	Date	Examiner

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12257205	ORTIZ ET AL.
	Examiner	Art Unit
	MD S ELAHEE	2653

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/15/2010	10/01/2010	09/15/2013						
	1	✓	✓	✓						
	2	✓	✓	✓						
	3	✓	✓	✓						
	4	✓	✓	-						
	5	✓	✓	✓						
	6	✓	✓	✓						
	7	✓	✓	✓						
	8	✓	✓	✓						
	9	✓	✓	✓						
	10	✓	✓	✓						
	11	✓	✓	✓						
	12	✓	✓	-						
	13	✓	✓	✓						
	14	✓	✓	✓						
	15	✓	✓	✓						
	16	✓	✓	✓						
	17	✓	✓	✓						
	18	✓	✓	✓						
	19	✓	✓	✓						
	20	✓	✓	✓						
	21	✓	✓	✓						
	22	✓	✓	✓						
	23	✓	✓	✓						
	24	✓	✓	✓						
	25	✓	✓	✓						
	26	✓	✓	✓						
	27	✓	✓	✓						
	28	✓	✓	✓						
	29	✓	✓	✓						
	30	✓	✓	✓						
	31	✓	✓	✓						
	32	✓	✓	✓						
	33	✓	✓	✓						
	34	✓	✓	✓						
	35	✓	✓	✓						
	36	✓	✓	✓						

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12257205	ORTIZ ET AL.
	Examiner	Art Unit
	MD S ELAHEE	2653

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/15/2010	10/01/2010	09/15/2013						
	37	✓	✓	✓						
	38	✓	✓	✓						
	39	✓	✓	✓						

PTO/SB/30 (07-09)
Approved for use through 07/31/2012. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Request For Continued Examination (RCE) Transmittal

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	13/257,205
Filing Date	10/23/2008
First Named Inventor	Luis M. Ortiz
Art Unit	2614
Examiner Name	Blalock, MD S
Attorney Docket Number	1008-2296

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. Submission required under 37 CFR 1.114 Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.
   i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____
   ii. ☐ Other _____

b. ☒ Enclosed
   i. ☒ Amendment/Reply
   ii. ☐ Affidavit(s)/Declaration(s)
   iii. ☐ Information Disclosure Statement (IDS)
   iv. ☐ Other _____

2. Miscellaneous _____

a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

b. ☐ Other _____

3. Fees The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

a. ☐ The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments to Deposit Account No. _____.
   i. ☐ RCE fee required under 37 CFR 1.17(e)
   ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17)
   iii. ☐ Other _____

b. ☐ Check in the amount of $ _____ enclosed

c. ☒ Payment by credit card (Form PTO-2038 enclosed)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature		Date	January 5, 2011
Name (Print / Type)	Luis M. Ortiz	Registration No.	36,230

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Signature			
Name (Print / Type)		Date	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:	Luis M. Ortiz, et al.	**EXAMINER:**	ELAHEE, MD S
SERIAL NO.:	12/257,206	**GROUP:**	2614
FILED:	10/23/2008	**ATTY DKT NO.:**	1000-2296
TITLED:	ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE		

Please forward all correspondence to:
ORTIZ & LOPEZ, PLLC
Patent Attorneys
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Mail Stop: RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUBMISSION SUBMITTED WITH REQUEST FOR CONTINUED EXAMINATION (RCE) - AMENDMENT AND RESPONSE TO OFFICE ACTION

Dear Sir:

In response to the Office Action dated October 6, 2010 in the above captioned matter, please enter the following amendments and consider Applicants' remarks.

The current claim listing begins on page 2 of this paper.

Remarks begin on page 12 of this paper.

CLAIM AMENDMENTS

Please amend the claims as follows:

1. (Currently amended) An electronic wireless hand held multimedia device, comprising:

a ~~first~~ wireless cellular telecommunications transceiver ~~module configured to~~ supporting bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks;

a ~~second~~ wireless local area network transceiver ~~module configured to~~ supporting bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks;

a ~~third~~ wireless Bluetooth transceiver ~~module configured to~~ supporting bi-directional data communications of the electronic wireless hand held multimedia device over a direct wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a display screen configured to display data including video and text received by the electronic wireless hand held multimedia device;

a user interface configured to accept user input into the electronic wireless hand held multimedia device; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

2. (Original) The electronic wireless hand held multimedia device of claim 1, further comprising a global positioning module configured to provide location information for the electronic wireless hand held multimedia device.

3. (Original) The electronic wireless hand held multimedia device of claim 1, further comprising a cartridge reader configured to transfer data with an electronic cartridge.

4. (Cancelled).

5. (Original) The electronic wireless hand held multimedia device of claim 1, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

6. (Original) The electronic wireless hand held multimedia device of claim 1, further comprising a security module enabling protected data management and communications security.

7. (Original) The electronic wireless hand held multimedia device of claim 1, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

8. (Currently amended) The electronic wireless hand held multimedia device of claim 1, further comprising a ~~fourth~~ wireless infrared transceiver ~~module configured~~ to supporting bi-directional line-of-sight data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

9. (Currently amended) An electronic wireless hand held multimedia device, comprising:

a ~~first~~ wireless cellular telecommunications transceiver ~~module configured to~~ supporting bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks;

a ~~second~~ wireless local area network transceiver ~~module configured to~~ supporting bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks;

a ~~third~~ wireless Bluetooth transceiver ~~module configured to~~ supporting bi-directional data communications of the electronic wireless hand held multimedia device over a direct wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

10. (Original) The electronic wireless hand held multimedia device of claim 9, further comprising a global positioning module configured to provide location information for the electronic wireless hand held multimedia device.

11. (Original) The electronic wireless hand held multimedia device of claim 9, further comprising a cartridge reader configured to transfer data with an electronic cartridge.

12. (Cancelled).

13. (Currently amended) The electronic wireless hand held multimedia device of claim 9, further comprising a ~~fourth~~ wireless infrared transceiver ~~module configured to~~ supporting bi-directional line-of-sight data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

14. (Original) The electronic wireless hand held multimedia device of claim 9, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

15. (Original) The electronic wireless hand held multimedia device of claim 9, further comprising a security module enabling protected data management and communications security.

16. (Original) The electronic wireless hand held multimedia device of claim 9, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

17. (Currently amended) An electronic wireless hand held multimedia device, comprising:

a ~~first~~ wireless cellular telecommunications transceiver ~~module configured to~~ supporting bi-directional data communications with remote data resources over cellular telecommunications networks;

a ~~second~~ wireless local area network transceiver ~~module configured to~~ supporting bi-directional data communications with remote data resources over wireless local area networks;

a ~~third wireless~~ Bluetooth transceiver ~~module configured to~~ supporting bi-directional data communications over a Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a global positioning module configured to provide device location information; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

18. (Original) The electronic wireless hand held multimedia device of claim 17, further comprising a cartridge reader configured to transfer data with an electronic cartridge.

19. (Currently amended) The electronic wireless hand held multimedia device of claim 17, further comprising a ~~fourth wireless~~ infrared transceiver ~~module configured to~~ supporting bi-directional line-of-sight data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

20. (Original) The electronic wireless hand held multimedia device of claim 17, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

21. (Original) The electronic wireless hand held multimedia device of claim 17, further comprising a security module enabling protected data management and communications security.

22. (Original) The electronic wireless hand held multimedia device of claim 17, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

23. (Currently amended) An electronic wireless hand held multimedia device, comprising:

a ~~first~~ wireless cellular telecommunications transceiver ~~module configured to~~ supporting bi-directional data communications with remote data resources over cellular telecommunications networks;

a ~~second~~ wireless local area network transceiver ~~module configured to~~ supporting bi-directional data communications with remote data resources over wireless local area networks;

a ~~third~~ wireless Bluetooth transceiver ~~module configured to~~ supporting bi-directional data communications over a Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a cartridge reader configured to transfer data with an electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

24. (Original) The electronic wireless hand held multimedia device of claim 23, further comprising a global positioning module configured to provide device location information.

25. (Original) The electronic wireless hand held multimedia device of claim 23, further comprising a ~~fourth~~ wireless infrared transceiver ~~module configured to~~ supporting bi-directional line-of-sight data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

26. (Original) The electronic wireless hand held multimedia device of claim 23, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

27. (Original) The electronic wireless hand held multimedia device of claim 23, further comprising a security module enabling protected data management and communications security.

28. (Original) The electronic wireless hand held multimedia device of claim 23, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

29. (Currently amended) An electronic wireless hand held multimedia device, comprising:

a ~~first~~ wireless cellular telecommunications transceiver ~~module configured to~~ supporting bi-directional data communications with remote data resources over cellular telecommunications networks;

a ~~second~~ wireless local area network transceiver ~~module configured to~~ supporting bi-directional data communications with remote data resources over wireless local area networks;

a ~~third~~ wireless Bluetooth transceiver ~~module configured to~~ supporting bi-directional data communications of the electronic wireless hand held multimedia device over a Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a global positioning module configured to provide device location information;

a cartridge reader configured to receive and communicate with a electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

30. (Original) The electronic wireless hand held multimedia device of claim 29, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

31. (Original) The electronic wireless hand held multimedia device of claim 29, further comprising a security module enabling protected data management and communications security.

32. (Original) The electronic wireless hand held multimedia device of claim 29, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

33. (Currently amended) The electronic wireless hand held multimedia device of claim 29, further comprising a ~~fourth~~ wireless infrared transceiver ~~module configured to~~ supporting bi-directional line-of-sight data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

34. (Currently amended) An electronic wireless hand held multimedia device, comprising:

a ~~first~~ wireless cellular telecommunications transceiver ~~module configured to~~ supporting bi-directional data communications with remote data resources over cellular telecommunications networks;

a ~~second~~ wireless local area network transceiver ~~module configured to~~ supporting bi-directional data communications with remote data resources over wireless local area networks;

a ~~third~~ wireless Bluetooth transceiver ~~module configured to~~ supporting bi-directional data communications of the electronic wireless hand held multimedia device over a Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a cartridge reader configured to receive and communicate with a electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

35. (Original) The electronic wireless hand held multimedia device of claim 34, further comprising a global positioning module configured to provide location information for the electronic wireless hand held multimedia device.

36. (Currently amended) An electronic wireless hand held multimedia device, comprising:

a ~~first wireless~~ cellular telecommunications transceiver ~~module configured to~~ supporting bi-directional data communications with remote data resources over cellular telecommunications networks;

a ~~second wireless~~ local area network transceiver ~~module configured to~~ supporting bi-directional data communications with remote data resources over wireless local area networks;

a ~~third wireless~~ Bluetooth transceiver ~~module configured to~~ supporting bi-directional data communications of the electronic wireless hand held multimedia device over a Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a ~~fourth wireless~~ infrared transceiver ~~module configured to~~ supporting bi-directional line-of-sight data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a global positioning module configured to provide location information for the electronic wireless hand held multimedia device;

a cartridge reader configured to receive and communicate with a electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

37. (Original) The electronic wireless hand held multimedia device of claim 36, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

38. (Original) The electronic wireless hand held multimedia device of claim 36, further comprising a security module enabling protected data management and communications security.

39. (Original) The electronic wireless hand held multimedia device of claim 36, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

REMARKS

I. Priority

In the Office Action dated October 6, 2010, the Examiner acknowledged Applicant's claim for the benefit of a prior-filed application under 35 U.S.C. 119(e) or under 35 U.S.C. 120, 121, or 365(c). The Examiner has again asserted, however, that the Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 120 as follows:

The Examiner indicated that the later-filed application must be an application for a patent for an invention, which is also disclosed in the prior application (the parent or original nonprovisional application or provisional application). The Examiner further indicated that the disclosure of the invention in the parent application and in the later-filed application must be sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. See *Transco Products, Inc. v. Performance Contracting, Inc.*, 38 F.3d 551, 32 USPQ2d 1077 (Fed. Cir. 1994).

The Examiner asserted that the disclosure of the prior-filed applications, Application No. 09/887492 and 09/902,348, fail to provide adequate support or enablement in the manner provided by the first paragraph of 35 U.S.C. 112 for one or more claims of this application. The Examiner argues that language supporting the claimed *first, second, third and fourth wireless transceivers* (see independent claims of instant application) were not found in both of the prior applications.

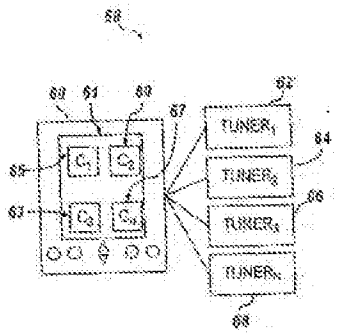
The Applicant now understands that it is the language that is not specifically supported in the priority documents; therefore, the independent claims have now been amended to incorporate language consistent with what is actually disclosed in the priority applications. U.S. Patent Application Serial No. 12/257,205 is a continuation of U.S. Patent Application Serial No. 09/887,492, entitled "Systems, Methods and Apparatuses for Brokering Data Between Wireless Devices and Data Rendering Devices," which was filed on June 22, 2001, and claims priority to U.S.

Provisional Patent Application, Serial No. 60/214,339, entitled "Systems, Methods and Apparatuses for Brokering Data Between Wireless Devices and Data Rendering Devices," which was filed on June 27, 2000.

U.S. Patent Application Serial No. 12/257,205 is also a continuation of U.S. Patent Application Serial No. 09/902,348, entitled "Providing Multiple Perspectives of a Venue Activity to Electronic Hand-Held Devices," filed on November 8, 2000, which claims the benefit of U.S. Provisional Application Serial Number 60/243,561, which was filed on October 26, 2000.

All the aforementioned applications are incorporated herein by reference in their entirety. This patent application therefore traces its priority date back to June 27, 2000 and October 26, 2000 with the filing of the above-referenced U.S. Provisional patent Applications.

Applicant submits that the prior applications from which priority is claimed teach: a wireless cellular telecommunications transceiver supporting bi-directional data communications with remote data resources over cellular telecommunications networks; a wireless local area network transceiver supporting bi-directional data communications with remote data resources over wireless local area networks; a wireless Bluetooth transceiver supporting bi-directional data communications of the electronic wireless hand held multimedia device over a direct wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device. Cellular, WLAN, Bluetooth, Infrared and GPS transmitter, receivers, transceivers, can all be incorporated as modules within Applicants' handheld device as taught in the priority applications. For example, in U.S. Patent Application Serial No. 09/902,348, the wireless unit 17 can function as a wireless transceiver module and the transceiver 16 can also function as another wireless transceiver module. Also, referring to FIG. 4 of U.S. Patent Application Serial No. 09/902,348, a handheld device is illustrated that includes four separate wireless modules, 62, 64, 66 and 68 (see below).



Additionally, U.S. Patent Application Serial No. 09/902,348 teaches a variety of different types of wireless communications, including cellular telecommunications networks, wireless local area networks, short-range communications and so forth. See, for example, FIG. 10 and paragraphs [0095] to [0180] of U.S. Patent Application Serial No. 09/902,348 wherein Applicants teach various wireless communications protocols and networks.

Furthermore, the addition of FIG. 1(c) in the present application depicting a device having multiple wireless modules is consistent with FIG. 4 in U.S. Patent Application Serial No. 09/902,348, wherein four separate wireless modules are illustrated and clearly described in the supporting specification. FIG. 1(c) is consistent with what was presented in Applicants' priority document U.S. Patent Application Serial No. 09/902,348, and illustrates how Applicants' invention can incorporate four separate wireless modules into a single smartphone (e.g., hand held device such as Blackberry, Palm PDA, and now also extends to other devices currently available smartphone devices available in the marketplace such as the iPhone, the HTC Android phone, etc.). Fig. 1(c) is completely supported by and illustrative of Applicants' invention as described in at least U.S. Patent Application Serial No. 09/902,348 filed in the year 2000 and is clearly within the scope, spirit and teaching of at least U.S. Patent Application Serial No. 09/902,348.

The same holds true for U.S. Patent Application 09/887,492, which also teaches multiple transceivers. For example, U.S. Patent Application 09/887,492

teaches multiple transceivers 26 (IR), 27 (RF), and 29 (IP/WiFi). Thus, the addition of FIG. 1(c) in the present application depicting a device having multiple transceivers is also within the scope, spirit and teaching of U.S. Patent Application Serial No. 09/887,492.

Thus, the Applicant submits that the present claim amendments for clarification and because the disclosure of Applicant's invention in either of the parent applications dating back to the year 2000 is sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. Applicant thus submits that the Applicant has in fact complied with one or more conditions for receiving the benefit of the earlier filing date(s) under 35 U.S.C. 120.

II. Claim Rejections – 35 U.S.C. § 103

In the Office Action dated April 21, 2010, claims 1, 2, 4, 6, 8-10, 12, 13, 15, 17, 19 and 21 were rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran (U.S. Patent Publication No. 2007/0275746) in view of Wecker et al. (U.S. Patent No. 6,289,464).

With the amendments provided herein, Applicants enjoy priority over the primary reference used for rejection of their claims, namely "Bitran". Bitran was published on November 29, 2007 and its filing date post dates Applicants' priority. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference given the priority of Applicants' applications and now with the presented amendments herein. For Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published and filed prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn.

Furthermore, neither Bitran or Wecker, alone or in combination, teach, *inter alia*, Bluetooth, nor do they teach Bluetooth in combination with WiFi and Cellular communication in a single handheld device as Applicants do.

Applicant therefore respectfully requests that the aforementioned rejection to claims 28, 32, and 39 be withdrawn.

III. Conclusion

In view of the foregoing amendments and remarks about what is believed to have been a favorable examiner interview, Applicants believe they have responded to each and every rejection of the Official Action. The Applicants have clarified the structural distinctions of the present invention and have attempted to accurately characterize the cited references in their remarks. Applicants respectfully request the withdrawal of the aforementioned rejections based on the amendments and remarks. Reconsideration and early allowance of Applicants' application is also respectfully solicited.

The Examiner is respectfully requested to contact the undersigned representative to conduct an interview in an effort to expedite prosecution in connection with the present application should there be any outstanding matters that need to be resolved in the present application.

Respectfully submitted,

Dated: January 5, 2011

Luis M. Ortiz
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Registration No. 36,230
ORTIZ & LOPEZ, PLLC
P.O. Box 4484
Albuquerque, NM 87196-4484
(505) 314-1311

Electronic Patent Application Fee Transmittal					
Application Number:	12257205				
Filing Date:	23-Oct-2008				
Title of Invention:	ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE				
First Named Inventor/Applicant Name:	Luis M. Ortiz				
Filer:	Kermit Dean Lopez/Yvonne Lopez				
Attorney Docket Number:	1000-2396				
Filed as Small Entity					
Utility under 35 USC 111(a) Filing Fees					
Description		**Fee Code**	**Quantity**	**Amount**	**Sub-Total in USD($)**
Basic Filing:					
Pages:					
Claims:					
Miscellaneous-Filing:					
Petition:					
Patent-Appeals-and-Interference:					
Post-Allowance-and-Post-Issuance:					
Extension-of-Time:					

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
Request for continued examination	2801	1	405	405
		Total in USD ($)		405

Electronic Acknowledgement Receipt	
EFS ID:	8173433
Application Number:	12257205
International Application Number:	
Confirmation Number:	8613
Title of Invention:	ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE
First Named Inventor/Applicant Name:	Luis M. Ortiz
Customer Number:	64064
Filer:	Kermit Dean Lopez/Yvonne Lopez
Filer Authorized By:	Kermit Dean Lopez
Attorney Docket Number:	1000-2296
Receipt Date:	05-JAN-2011
Filing Date:	23-OCT-2008
Time Stamp:	17:44:28
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Credit Card
Payment was successfully received in RAM	5405
RAM confirmation Number	4263
Deposit Account	
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1	Request for Continued Examination (RCE)	1000-2296_RCE.pdf	66010	no	1
Warnings:					
This is not a USPTO supplied RCE SB30 form.					
Information:					
2	Amendment Submitted/Entered with Filing of CPA/RCE	1000-2296_Amendment_RCE_OA100610.pdf	513877	no	17
Warnings:					
Information:					
3	Fee Worksheet (PTO-875)	fee-info.pdf	30383	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	609270		

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (07-06)
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
12/257,205	10/23/2008	

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)	SMALL ENTITY ☒		OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 = *		X $ =		X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 = *		X $ =		X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).					
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))						
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL		TOTAL	

APPLICATION AS AMENDED – PART II

		(Column 1)		(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
	01/05/2011	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	Total (37 CFR 1.16(i))	* 37	Minus	** 39	= 0	X $25 =	0	OR	X $ =	
	Independent (37 CFR 1.16(h))	* 7	Minus	***7	= 0	X $110 =	0	OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

		(Column 1)		(Column 2)	(Column 3)					
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/KAREN VESTAL/

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/257,205	10/23/2008	Luis M. Ortiz	1000-2296	6013

64964 7590 10/06/2010

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EXAMINER
BLAIRE, MD S

ART UNIT	PAPER NUMBER
3614	

MAIL DATE	DELIVERY MODE
10/06/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	12/257,206	ORTIZ ET AL.	
	Examiner	Art Unit	
	MD S. ELAHEE	3614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on 15 July 2010.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) 1-39 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) 1-39 is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date: _____
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments in the 07/15/2010 Remarks have been fully considered but they are not persuasive because of the following:

Regarding priority, the applicant argues on pages 12-15 that the disclosure of applicant's invention in either of the parent applications dating back to the year 2000 is sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. Examiner respectfully disagrees with the applicant. It is because, examiner could not find any support in any of the prior applications for the claimed first, second, third and fourth wireless transceivers (see independent claims of instant application).

Regarding independent claims, the applicant argues on pages 15-18 that Bitran does not teach the claimed limitation. It is because Bitran does not teach cellular telecommunications network. Examiner respectfully disagrees with this argument. The 802.11 (see paragraphs 0003-0004) is an IEEE standard that allows devices such as laptop computers or cellular phones to join a wireless LAN widely used in the home, office and some commercial establishments. Bitran further teaches establishing a first communication session over a first connection between a wireless terminal and a base station (BS) of a long-range wireless data network (see paragraph 0010). It clearly means that Bitran teaches cellular telecommunications network.

Thus, the rejection of the claims will remain.

Priority

2. Applicant's claim for the benefit of a prior-filed application under 35 U.S.C. 119(e) or under 35 U.S.C. 120, 121, or 365(c) is acknowledged. Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 120 as follows:

The later-filed application must be an application for a patent for an invention which is also disclosed in the prior application (the parent or original nonprovisional application or provisional application). The disclosure of the invention in the parent application and in the later-filed application must be sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. See *Transco Products, Inc. v. Performance Contracting, Inc.*, 38 F.3d 551, 32 USPQ2d 1077 (Fed. Cir. 1994).

The disclosure of the prior-filed applications, Application No. 09/887492 and 09/902,348, fail to provide adequate support or enablement in the manner provided by the first paragraph of 35 U.S.C. 112 for one or more claims of this application. The claimed first, second, third and fourth wireless transceivers (see independent claims of instant application) were not found in both of the prior applications. Furthermore, the disclosed Fig.(c) and its supporting discloser in the instant application were not supported by both of the prior applications.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1, 2, 4, 6, 8-10, 12, 13, 15, 17, 19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran (U.S. Pub. No. 2007/0275746) in view of Wecker et al. (U.S. Patent No. 6,289,464).

Regarding claims 1, 4, 9 and 12, with respect to Figures 1-3, Bitran teaches an electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks (fig.1; page 2, paragraphs 0026-0027, page 3, paragraph 0041-0043, 0045);

Bitran further teaches a second wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks (fig.1; page 2, paragraphs 0026-0027, page 3, paragraph 0041-0043, 0045);

Bitran further teaches a third wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over a direct wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device (fig.1; page 2, paragraphs 0026-0027, page 3, paragraph 0041-0043, 0045);

Bitran further teaches a user interface configured to accept user input into the electronic wireless hand held multimedia device (page 16, paragraph 0085, page 9, paragraph 0120) and

Bitran further a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device (fig.2).

Bitran further teaches a display screen configured to display data received by the electronic wireless hand held multimedia device (fig.1). However, Bitran does not specifically teach displayed data including video and text. Wecker teaches that displayed data includes video and text (fig.2; col.9, line 54-col.10, line 12, col.10, line 60-col.11, line 5). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran to incorporate displayed data including video and text in Bitran's invention as taught by Wecker. The motivation for the modification is to do so in order to transmit multimedia message such that a mobile user can get benefit out of the multimedia message.

Regarding claims 2 and 10, Bitran, as applied to claims 1 and 9, does not specifically teach a global positioning module configured to provide location information for the electronic wireless hand held multimedia device. Wecker teaches a global positioning module configured to provide location information for the electronic wireless hand held multimedia device (fig.2; col.9, line 54-col.10, line 12, col.10, line 60-col 11, line 5). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran to incorporate the feature of providing location information by a global positioning module for the electronic wireless hand held multimedia device in Bitran's invention as taught by Wecker. The motivation for the modification is to do so in order to filter messages such that a mobile user can get receive desired message based on his choice.

Regarding claims 6, 15 and 21, Bitran, as applied to claims 1, 9 and 17, teaches a security module enabling protected data management and communications security (page 1, paragraph 0005).

Regarding claims 8, 13 and 19, Bitran, as applied to claims 1, 9 and 17, does not specifically teach a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device. Wecker teaches a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device (col.4, lines 38-42). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran to incorporate a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device in Bitran's invention as taught by Wecker. The motivation for the modification is to do so in order to communicate with other devices through Infrared communication mechanism.

Claim 17 is rejected for the same reasons as discussed above with respect to claims 1 and 2.

7. Claims 3, 11, 18, 23-25, 27, 29, 31, 33-36 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Dyer et al. (U.S. Patent No. 4,433,387).

Regarding claims 3, 11 and 18, Bitran, as applied to claims 1, 9 and 17, in view of Wecker does not specifically teach a cartridge reader configured to transfer data with an electronic cartridge. Dyer teaches a cartridge reader configured to transfer data with an electronic cartridge (col.13, lines 20-30). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran in view of Wecker to incorporate a cartridge reader configured to transfer data with an electronic cartridge in Bitran's invention in view of Wecker's invention as taught by Dyer. The motivation for the modification is to do so in order to clear the space of storage of the cartridge such that it can be used for future data.

Claim 23 is rejected for the same reasons as discussed above with respect to claims 1 and 3.

Claims 24 and 35 are rejected for the same reasons as discussed above with respect to claim 2.

Claims 25 and 33 are rejected for the same reasons as discussed above with respect to claim 8.

Claims 27, 31 and 38 are rejected for the same reasons as discussed above with respect to claim 6.

Claim 29 is rejected for the same reasons as discussed above with respect to claims 1-3.

Claim 34 is rejected for the same reasons as discussed above with respect to claims 1, 3 and 8.

Claim 36 is rejected for the same reasons as discussed above with respect to claims 1-3 and 8.

8. Claims 5, 14 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Rautila et al. (U.S. Patent No. 6,549,625).

Regarding claims 5, 14 and 20, Bitran, as applied to claims 1, 9 and 17, in view of Wecker does not specifically teach a mobile payment module enabling mobile payments via a variety of billing arrangements. Rautila teaches a mobile payment module enabling mobile payments via a variety of billing arrangements (col.4, lines 41-48). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran in view of Wecker to incorporate a mobile payment module enabling mobile payments via a variety of billing arrangements in Bitran's invention in view of Wecker's invention as taught by Rautila.

The motivation for the modification is to do so in order to clear the space of storage of the cartridge such that it can be used for future data.

9. Claims 26, 30 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Dyer et al. further in view of Rautila et al. (U.S. Patent No. 6,549,625).

Claims 26, 30 and 37 are rejected for the same reasons as discussed above with respect to claim 5.

10. Claims 7, 16 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Purdy et al. (U.S. Patent No. 5,726,660).

Regarding claims 7, 16 and 22, Bitran, as applied to claims 1, 9 and 17, in view of Wecker does not specifically teach a video camera enabling the capture, storage, processing and transmission of video and pictures. Purdy teaches a video camera enabling the capture, storage, processing and transmission of video and pictures (abstract; col.1, line 66-col.2, line 21). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran in view of Wecker to incorporate a video camera enabling the capture, storage, processing and transmission of video and pictures in Bitran's invention in view of Wecker's invention as taught by Purdy. The motivation for the modification is to do so in order to collect

pictures and video that are important for a mobile user such that he can transmit them to a particular user.

11. Claims 28, 32 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Dyer et al. further in view of Rautila et al. (U.S. Patent No. 6,549,625).

Claims 28, 32 and 39 are rejected for the same reasons as discussed above with respect to claim 7.

Conclusion

12. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MD S. ELAHEE whose telephone number is (571)272-7536. The examiner can normally be reached on MON-FRI.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, FAN TSANG can be reached on (571)272-7547. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/MD S ELAHEE/
MD SHAFIUL ALAM ELAHEE
Primary Examiner
Art Unit 2614
October 2, 2010

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12257205	ORTIZ ET AL.
	Examiner	Art Unit
	MD S ELAHEE	2614

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/15/2010	10/01/2010							
	1	✓	✓							
	2	✓	✓							
	3	✓	✓							
	4	✓	✓							
	5	✓	✓							
	6	✓	✓							
	7	✓	✓							
	8	✓	✓							
	9	✓	✓							
	10	✓	✓							
	11	✓	✓							
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	27	✓	✓							
	28	✓	✓							
	29	✓	✓							
	30	✓	✓							
	31	✓	✓							
	32	✓	✓							
	33	✓	✓							
	34	✓	✓							
	35	✓	✓							
	36	✓	✓							

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12257205	ORTIZ ET AL.
	Examiner	Art Unit
	MD S ELAHEE	2614

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/15/2010	10/01/2010							
	37	✓	✓							
	38	✓	✓							
	39	✓	✓							

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L6	4723	455/41.1-41.3.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/10/01 09:40
L7	54556	short adj range	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/01 09:40
L8	38422	long adj range	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/01 09:40
L9	6102	L7 with L8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/10/01 09:40
L10	142	L6 and L9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/10/01 09:40

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Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12257205	ORTIZ ET AL.
	Examiner	Art Unit
	MD S ELAHEE	2614

SEARCHED			
Class	Subclass	Date	Examiner
455	41.1-41.3	10/1/2010	ME

SEARCH NOTES		
Search Notes	Date	Examiner
East	10/1/2010	ME

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:	Luis M. Ortiz, et al.	**EXAMINER:**	ELAHEE, MD S
SERIAL NO.:	12/257,205	**GROUP:**	2614
FILED:	10/23/2008	**ATTY DKT NO.:**	1000-2296
TITLED:	**ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE**		

Please forward all correspondence to:
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Patent Attorneys
P.O. Box 4484
Albuquerque, NM 87196-4484

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT AND RESPONSE TO OFFICE ACTION

Dear Sir:

In response to the Office Action dated April 21, 2010 in the above captioned matter, please enter the following amendments and consider Applicants' remarks.

The current claim listing begins on page 2 of this paper.

Remarks begin on page 12 of this paper.

CLAIM LISTING

The current claims are as follows:

1. (Original) An electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks;

a second wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks;

a third wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over a direct wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a display screen configured to display data including video and text received by the electronic wireless hand held multimedia device;

a user interface configured to accept user input into the electronic wireless hand held multimedia device; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

2. (Original) The electronic wireless hand held multimedia device of claim 1, further comprising a global positioning module configured to provide location information for the electronic wireless hand held multimedia device.

3. (Currently Amended) The electronic wireless hand held multimedia device of claim 1, further comprising a cartridge reader configured to transfer data with an electronic cartridge.

4. (Original) The electronic wireless hand held multimedia device of claim 1, wherein the third wireless transceiver module is a Bluetooth transceiver.

5. (Original) The electronic wireless hand held multimedia device of claim 1, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

6. (Original) The electronic wireless hand held multimedia device of claim 1, further comprising a security module enabling protected data management and communications security.

7. (Original) The electronic wireless hand held multimedia device of claim 1, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

8. (Original) The electronic wireless hand held multimedia device of claim 1, further comprising a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

9. (Original) An electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks;

a second wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks;

a third wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over a direct wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

10. (Original) The electronic wireless hand held multimedia device of claim 9, further comprising a global positioning module configured to provide location information for the electronic wireless hand held multimedia device.

11. (Original) The electronic wireless hand held multimedia device of claim 9, further comprising a cartridge reader configured to transfer data with an electronic cartridge.

12. (Original) The electronic wireless hand held multimedia device of claim 9, wherein the third wireless transceiver module is a Bluetooth transceiver.

13. (Original) The electronic wireless hand held multimedia device of claim 9, further comprising a fourth wireless module configured to support bi-directional

data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

14. (Original) The electronic wireless hand held multimedia device of claim 9, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

15. (Original) The electronic wireless hand held multimedia device of claim 9, further comprising a security module enabling protected data management and communications security.

16. (Original) The electronic wireless hand held multimedia device of claim 9, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

17. (Original) An electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications with remote data resources over cellular telecommunications networks;

a second wireless transceiver module configured to support bi-directional data communications with remote data resources over wireless local area networks;

a third wireless transceiver module configured to support bi-directional data communications over a Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a global positioning module configured to provide device location information; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

18. (Original) The electronic wireless hand held multimedia device of claim 17, further comprising a cartridge reader configured to transfer data with an electronic cartridge.

19. (Original) The electronic wireless hand held multimedia device of claim 17, further comprising a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

20. (Original) The electronic wireless hand held multimedia device of claim 17, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

21. (Original) The electronic wireless hand held multimedia device of claim 17, further comprising a security module enabling protected data management and communications security.

22. (Original) The electronic wireless hand held multimedia device of claim 17, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

23. (Original) An electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications with remote data resources over cellular telecommunications networks;

a second wireless transceiver module configured to support bi-directional data communications with remote data resources over wireless local area networks;

a third wireless transceiver module configured to support bi-directional data communications over a Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a cartridge reader configured to transfer data with an electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

24. (Original) The electronic wireless hand held multimedia device of claim 23, further comprising a global positioning module configured to provide device location information.

25. (Original) The electronic wireless hand held multimedia device of claim 23, further comprising a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

26. (Original) The electronic wireless hand held multimedia device of claim 23, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

27. (Original) The electronic wireless hand held multimedia device of claim 23, further comprising a security module enabling protected data management and communications security.

28. (Original) The electronic wireless hand held multimedia device of claim 23, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

29. (Original) An electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks;

a second wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks;

a third wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over a Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a global positioning module configured to provide device location information;

a cartridge reader configured to receive and communicate with a electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

30. (Original) The electronic wireless hand held multimedia device of claim 29, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

31. (Original) The electronic wireless hand held multimedia device of claim 29, further comprising a security module enabling protected data management and communications security.

32. (Original) The electronic wireless hand held multimedia device of claim 29, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

33. (Original) The electronic wireless hand held multimedia device of claim 29, further comprising a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

34. (Original) An electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks;

a second wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks;

a third wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over a Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a cartridge reader configured to receive and communicate with a electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

35. (Original) The electronic wireless hand held multimedia device of claim 34, further comprising a global positioning module configured to provide location information for the electronic wireless hand held multimedia device.

36. (Original) An electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks;

a second wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks;

a third wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over a

Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a global positioning module configured to provide location information for the electronic wireless hand held multimedia device;

a cartridge reader configured to receive and communicate with a electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

37. (Original) The electronic wireless hand held multimedia device of claim 36, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

38. (Original) The electronic wireless hand held multimedia device of claim 36, further comprising a security module enabling protected data management and communications security.

39. (Original) The electronic wireless hand held multimedia device of claim 36, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

REMARKS

I. Priority

In the Office Action dated April 21, 2010, the Examiner acknowledged Applicant's claim for the benefit of a prior-filed application under 35 U.S.C. 119(e) or under 35 U.S.C. 120, 121, or 365(c). The Examiner asserted, however, that the Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 120 as follows:

The Examiner indicated that the later-filed application must be an application for a patent for an invention, which is also disclosed in the prior application (the parent or original nonprovisional application or provisional application). The Examiner further indicated that the disclosure of the invention in the parent application and in the later-filed application must be sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. See *Transco Products, Inc. v. Performance Contracting, Inc.*, 38 F.3d 551, 32 USPQ2d 1077 (Fed. Cir. 1994).

The Examiner asserted that the disclosure of the prior-filed applications, Application No. 09/887492 and 09/902,348, fail to provide adequate support or enablement in the manner provided by the first paragraph of 35 U.S.C. 112 for one or more claims of this application. The Examiner argued that the claimed first, second, third and fourth wireless transceivers (see independent claims of instant application) were not found in both of the prior applications. Furthermore, the Examiner asserted that the disclosed Fig.(c) and its supporting disclosure in the instant application were not supported by both of the prior applications.

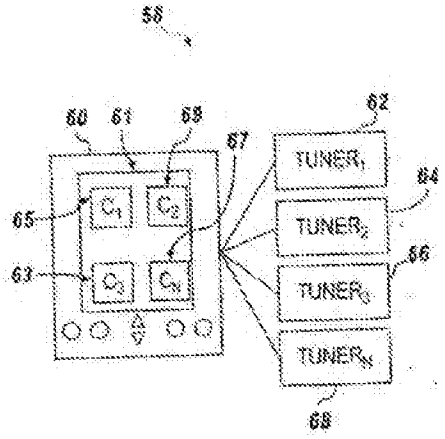
The Applicant respectfully disagrees with this assessment. U.S. Patent Application Serial No. 12/257,205 is a continuation of U.S. Patent Application Serial No. 09/887,492, entitled "Systems, Methods and Apparatuses for Brokering Data Between Wireless Devices and Data Rendering Devices," which was filed on June 22, 2001, and claims priority to U.S. Provisional Patent Application, Serial No.

60/214,339, entitled "Systems, Methods and Apparatuses for Brokering Data Between Wireless Devices and Data Rendering Devices," which was filed on June 27, 2000.

U.S. Patent Application Serial No. 12/257,205 is also a continuation of U.S. Patent Application Serial No. 09/902,348, entitled "Providing Multiple Perspectives of a Venue Activity to Electronic Hand-Held Devices," filed on November 8, 2000, which claims the benefit of U.S. Provisional Application Serial Number 60/243,561, which was filed on October 26, 2000.

All the aforementioned applications are incorporated herein by reference in their entirety. This patent application therefore traces its priority date back to June 27, 2000 and October 26, 2000 with the filing of the above-referenced U.S. Provisional patent Applications.

Applicant submits that multiple (e.g., first, second, third, fourth, etc) transceiver modules are disclosed in the aforementioned parent applications. For example, in U.S. Patent Application Serial No. 09/902,348, the wireless unit 17 can function as a wireless transceiver module and the transceiver 16 can also function as another wireless transceiver module. Also, referring to FIG. 4 of U.S. Patent Application Serial No. 09/902,348, a handheld device is illustrated that includes four separate wireless modules, 62, 64, 66 and 68 (see below).



Additionally, U.S. Patent Application Serial No. 09/902,348 teaches a variety of different types of wireless communications, including cellular telecommunications networks, wireless local area networks, short-range communications and so forth. See, for example, FIG. 10 and paragraphs [0095] to [0180] of U.S. Patent Application Serial No. 09/902,348 wherein Applicants teach various wireless communications protocols and networks.

Furthermore, the addition of FIG. 1(c) in the present application depicting a device having multiple wireless modules is consistent with FIG. 4 in U.S. Patent Application Serial No. 09/902,348, wherein four separate wireless modules are illustrated and clearly described in the supporting specification. FIG. 1(c) is consistent with what was presented in Applicants' priority document U.S. Patent Application Serial No. 09/902,348, and illustrates how Applicants' invention can incorporate four separate wireless modules into a single smartphone (e.g., hand held device such as Blackberry, Palm PDA, and now also extends to other devices currently available smartphone devices available in the marketplace such as the iPhone, the HTC Android phone, etc.). Fig. 1(c) is completely supported by and illustrative of Applicants' invention as described in at least U.S. Patent Application Serial No. 09/902,348 filed in the year 2000 and is clearly within the scope, spirit and teaching of at least U.S. Patent Application Serial No. 09/902,348.

The same holds true for U.S. Patent Application 09/887,492, which also teaches multiple transceivers. For example, U.S. Patent Application 09/887,492 teaches multiple transceivers 26 (IR), 27 (RF), and 29 (IP/WiFi). Thus, the addition of FIG. 1(c) in the present application depicting a device having multiple transceivers is also within the scope, spirit and teaching of U.S. Patent Application Serial No. 09/887,492.

Thus, the Applicant submits that the disclosure of Applicant's invention in either of the parent applications dating back to the year 2000 is sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. Applicant thus submits that the Applicant has in fact complied with one or more conditions for receiving the benefit of the earlier filing date(s) under 35 U.S.C. 120.

II. Information Disclosure Statement

In the Office Action dated April 21, 2010, the Examiner indicated that the information disclosure statement (IDS) submitted on October 23, 2008 was received. The Examiner further indicated that the submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the Examiner stated that the information disclosure statement is being considered by the examiner.

III. Claim Rejections – 35 U.S.C. § 103

Requirements for Prima Facie Obviousness

The obligation of the examiner to go forward and produce reasoning and evidence in support of obviousness is clearly defined at M.P.E.P. §2142:

> The examiner bears the initial burden of factually supporting any *prima facie* conclusion of obviousness. If the examiner does not produce a *prima facie* case, the applicant is under no obligation to submit evidence of nonobviousness.

M.P.E.P. §2143 sets out the three basic criteria that a patent examiner must satisfy to establish a *prima facie* case of obviousness:

1. some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings;

2. a reasonable expectation of success; and

3. the teaching or suggestion of all the claim limitations by the prior art reference (or references when combined).

It follows that in the absence of such a *prima facie* showing of obviousness by the Examiner (assuming there are no objections or other grounds for rejection), an applicant is entitled to grant of a patent. *In re Oetiker*, 977 F.2d 1443, 1445, 24 USPQ2d 1443 (Fed. Cir. 1992). Thus, in order to support an obviousness rejection, the Examiner is obliged to produce evidence compelling a conclusion that each of the three aforementioned basic criteria has been met.

Applicant further notes that the U.S. Supreme Court ruling of April 30, 2007 (*KSR Int'l v. Teleflex Inc.*) states:

> "The TSM test captures a helpful insight: A patent composed of several elements is not proved obvious merely by demonstrating that each element was, independently, known in the prior art. Although common sense directs caution as to a patent application claiming as innovation the combination of two known devices according to their established functions, it can be important to identify a reason that would have prompted a person of ordinary skill in the art to combine the elements as the new invention does."
>
> "To facilitate review, this analysis should be made explicit."

The U.S. Supreme Court ruling states that it is important to identify a *reason* that would have prompted a person to combine the elements and to make that analysis *explicit*.

Bitran in view of Wecker et al.

In the Office Action dated April 21, 2010, claims 1, 2, 4, 6, 8-10, 12, 13, 15, 17, 19 and 21 were rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran (U.S. Patent Publication No. 2007/0275746) in view of Wecker et al. (U.S. Patent No. 6,289,464).

Although Applicants believe that they enjoy priority over the primary reference used for rejection of their claims, Bitran, Applicants provide the following remarks regarding the rejection.

Regarding claims 1, 4, 9 and 12, with respect to Figures 1-3, the Examiner argued that Bitran teaches an electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks (fig.1; page 2, paragraphs 0026-0027, page 3, paragraph 0041-0043, 0045);

The Examiner further asserted that Bitran teaches a second wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks (fig.1; page 2, paragraphs 0026-0027, page 3, paragraph 0041-0043, 0045);

The Examiner also argued that Bitran teaches a third wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over a direct wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device (fig.1; page 2, paragraphs 0026-0027, page 3, paragraph 0041-0043, 0045).

The Examiner further asserted that Bitran teaches a user interface configured to accept user input into the electronic wireless hand held multimedia device (page 16, paragraph 0085, page 9, paragraph 0120) and

The Examiner further argued that Bitran teaches a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device (fig.2).

The Examiner further argued that Bitran teaches a display screen configured to display data received by the electronic wireless hand held multimedia device (fig.1.).

The Examiner admitted that Bitran does not specifically teach displayed data including video and text. The Examiner argued, however, that Wecker teaches that displayed data includes video and text (fig.2; col.9, line 54-col.10, line 12, col.10, line 60-col.11, line 5). Thus, the Examiner asserted that it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran to incorporate displayed data including video and text in Bitran's invention as taught by Wecker. The Examiner argued that the motivation for the modification is to do so in order to transmit multimedia message such that a mobile user can get benefit out of the multimedia message.

The Applicant respectfully disagrees with this assessment. First, Bitran does not teach cellular telecommunications networks. It is directed to WiMAX and WLAN network communications. FIG. 1, Page 2, paragraphs 0026-0027, Page 3, and paragraphs 0041-0043, 0045 of Bitran do not teach, suggest or disclose cellular telecommunications network, nor a wireless transceiver that supports bi-directional data communications of electronic hand held multimedia devices with remote data resources over cellular telecommunications networks. Instead, Bitran is replete with references to Wi-Fi and Wi-Max networks, which are NOT cellular telecommunications networks. Wi-Max (Worldwide Interoperability for Microwave Access) is a communications protocol that fixed and fully mobile internet access. WiMAX a standards-based technology enabling the delivery of last mile wireless broadband access as an alternative to cable and DSL. Wi-Max, is not, however, a cellular telecommunications network, which is a very different communications-networking environment.

Second, the Applicant notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been

published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn.

Applicant also notes regarding claims 4 and 12 that Applicant taught Bluetooth communications protocol in its specification with priority to the year 2000. Thus, with respect to the teach of Bluetooth, Bitran also cannot be used as a reference for purposes of rejecting claims 4 and 12 under 35 U.S.C. 103. Wecker also does not teach Bluetooth technology.

Applicant therefore respectfully requests that the aforementioned rejection to claims 1, 4, 9 and 12 be withdrawn.

Regarding claims 2 and 10, the Examiner admitted that Bitran, as applied to claims 1 and 9, does not specifically teach a global positioning module configured to provide location information for the electronic wireless hand held multimedia device. The Examiner argued, however, that Wecker teaches a global positioning module configured to provide location information for the electronic wireless hand held multimedia device (fig.2; col.9, line 54-col.10, line 12, col.10, line 60-col.11, line 5). Thus, the Examiner asserted that it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran to incorporate the feature of providing location information by a global positioning module for the electronic wireless hand held multimedia device in Bitran's invention as taught by Wecker. The Examiner argued that the motivation for the modification is to do so in order to filter messages such that a mobile user can get receive desired message based on his choice.

Applicant respectfully disagrees with this assessment and again notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates

above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, well after Applicants' priority dates as argued and supported above, Bitran is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claims 2 and 10 be withdrawn.

Regarding claims 6, 15 and 21, the Examiner argued that Bitran, as applied to claims 1, 9 and 17, teaches a security module enabling protected data management and communications security (page 1, paragraph 0005).

The Applicant respectfully disagrees with this assessment and again notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, also clearly traces its priority date back to June 27, 2000 and October 26, 2000 with respect to the teaching of a security module. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claims 6, 15, and 21 be withdrawn.

Regarding claims 8, 13 and 19, the Examiner admitted that Bitran, as applied to claims 1, 9 and 17, does not specifically teach a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device. The Examiner asserted, however, that Wecker teaches a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device (col.4, lines 38-42).

Thus, the Examiner argued that it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran to incorporate a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device in Bitran's invention as taught by Wecker. The Examiner asserted that the motivation for the modification is to do so in order to communicate with other devices through Infrared communication mechanism.

The Applicant respectfully disagrees with this assessment and again notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, also traces its priority date back to June 27, 2000 and October 26, 2000 with respect to an IR module. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claims 8, 13, and 19 be withdrawn.

The Examiner also indicated that claim 17 is rejected for the same reasons as discussed above with respect to claims 1 and 2. Applicant submits that the rejection to claim 17 should be withdrawn for the reasons set forth above with respect to claims 1 and 2. That is, Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is

therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn.

Bitran, Wecker, Dyer

In the Office Action dated April 21, 2010, claims 3, 11, 18, 23025, 27, 29, 31, 33-36 and 38 were rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al further in view of Dyer et al (U.S. Patent No. 4,433,387).

Regarding claims 3, 11 and 18, the Examiner admitted that Bitran, as applied to claims 1, 9 and 17, in view of Wecker does not specifically teach a cartridge reader configured to transfer data with an electronic cartridge. The Examiner argued, however, that Dyer teaches a cartridge reader configured to transfer data with an electronic cartridge (col.13, lines 20-30). Thus, the Examiner asserted that it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran in view of Wecker to incorporate a cartridge reader configured to transfer data with an electronic cartridge in Bitran's invention in view of Wecker's invention as taught by Dyer. The Examiner argued that the motivation for the modification is to do so in order to clear the space of storage of the cartridge such that it can be used for future data.

The Applicant respectfully disagrees with this assessment. Applicant submits that Dyer cannot be properly combined with Wecker and Bitran because Dyer teaches a system and approach from a completely different art. That is, Dyer teaches a magnetic tape cartridge 46, such as that shown below:

These types of devices cannot be used with Applicant's electronic wireless hand held multimedia device, which is a much more discrete device. Although Applicant teaches a "cartridge" this is not the same as the "cartridge" of Dyer. Examples of Applicant's "cartridge" include Smart Cards.

Applicant also again notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claims 3, 11 and 18 be withdrawn.

The Examiner indicated that claim 23 is rejected for the same reasons as discussed above with respect to claims 1 and 3. The Applicant respectfully disagrees with this assessment and notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claim 23 be withdrawn.

The Examiner also indicated that claims 24 and 35 are rejected for the same reasons as discussed above with respect to claim 2. The Applicant respectfully disagrees with this assessment and notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claims 24 and 35 be withdrawn.

The Examiner further indicated that claims 25 and 33 are rejected for the same reasons as discussed above with respect to claim 8. The Applicant respectfully disagrees with this assessment and notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference

with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claims 25 and 33 be withdrawn.

The Examiner also indicated that claims 27, 31 and 38 are rejected for the same reasons as discussed above with respect to claim 6. The Applicant respectfully disagrees with this assessment and notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claims 27, 31, and 38 be withdrawn.

The Examiner further indicated that claim 29 is rejected for the same reasons as discussed above with respect to claims 1-3. The Applicant respectfully disagrees with this assessment and notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection claim 29 be withdrawn.

The Examiner also indicated that claim 34 is rejected for the same reasons as discussed above with respect to claims 1, 3 and 8. The Applicant respectfully disagrees with this assessment and notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claim 34 be withdrawn.

The Examiner further indicated that claim 36 is rejected for the same reasons as discussed above with respect to claims 1-3 and 8. The Applicant respectfully disagrees with this assessment and notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claim 36 be withdrawn.

Bitran, Wecker, Rautila

In the Office Action dated April 21, 2010, the Examiner rejected claims 5, 15 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Rautila et al. (U.S. Patent No. 6,549,625).

Regarding claims 5, 14 and 20, the Examiner admitted that Bitran, as applied to claims 1, 9 and 17, in view of Wecker does not specifically teach a mobile payment module enabling mobile payments via a variety of billing arrangements. The Examiner argued, however, Rautila teaches a mobile payment module enabling mobile payments via a variety of billing arrangements (col.4, lines 41-48). Thus, the Examiner argued that it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran in view of Wecker to incorporate a mobile payment module enabling mobile payments via a variety of billing arrangements in Bitran's invention in view of Wecker's invention as taught by Rautila.

The Examiner argued that the motivation for the modification is to do so in order to clear the space of storage of the cartridge such that it can be used for future data.

The Applicant respectfully disagrees with this assessment and notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claims 5, 14, and 20 be withdrawn.

Claims 26, 30 and 37 were rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Dyer et al. further in view of Rautila et al. (U.S. Patent No. 6,549, 625).

The Applicant respectfully disagrees with this assessment and notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus,

for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claims 26, 30 and 37 be withdrawn.

Claims 26, 30 and 37 were rejected for the same reasons as discussed above with respect to claim 5. The Applicant respectfully disagrees with this assessment and notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claims 26, 30 and 37 be withdrawn.

Bitran, Wecker, Purdy

Claims 7, 16 and 22 were rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Purdy et al. (U.S. Patent No. 5,726,660).

Regarding claims 7, 16 and 22, the Examiner admitted that Bitran, as applied to claims 1, 9 and 17, in view of Wecker does not specifically teach a video camera enabling the capture, storage, processing and transmission of video and pictures. Purdy teaches a video camera enabling the capture storage, processing and transmission of video and pictures (abstract; col.1, line 66-col.2, line 21).

Thus, the Examiner argued that it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran in view of Wecker to incorporate a video camera enabling the capture, storage, processing and transmission of video and pictures in Bitran's invention in view of Wecker's invention as taught by Purdy. The Examiner asserted that the motivation for the modification is to do so in order to collect pictures and video that are important for a mobile user such that he can transmit them to a particular user.

The Applicant respectfully disagrees with this assessment and notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to 35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claims 7, 16 and 22 be withdrawn.

Bitran, Wecker, Dyer, Rautila

Claims 28, 32 and 39 were rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al further in view of Dyer et al. further in view of Rautila et al. (U.S. Patent No. 6,549,625).

The Applicant respectfully disagrees with this assessment and notes that Bitran was published on November 29, 2007. Applicant's invention, on the other hand, traces its priority date back to June 27, 2000 and October 26, 2000. Thus, for purposes of 35 U.S.C. 103, Bitran is not a proper reference. That is, for Bitran to be used as a reference with respect to 35 U.S.C. 103 as the Examiner indicates above, Bitran would need to have been published prior to June 27, 2000. Because Bitran was published in 2007, it is therefore not a proper reference with respect to

35 U.S.C. 103 and should be withdrawn. Applicant therefore respectfully requests that the aforementioned rejection to claims 28, 32, and 39 be withdrawn.

IV. Conclusion

In view of the foregoing amendments and remarks about what is believed to have been a favorable examiner interview, Applicants believe they have responded to each and every rejection of the Official Action. The Applicants have clarified the structural distinctions of the present invention and have attempted to accurately characterize the cited references in their remarks. Applicants respectfully request the withdrawal of the aforementioned rejections based on the amendments and remarks. Reconsideration and early allowance of Applicants' application is also respectfully solicited.

The Examiner is respectfully requested to contact the undersigned representative to conduct an interview in an effort to expedite prosecution in connection with the present application should there be any outstanding matters that need to be resolved in the present application.

Respectfully submitted,

Dated: July 14, 2010

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Electronic Acknowledgement Receipt

EFS ID:	8021976
Application Number:	12257205
International Application Number:	
Confirmation Number:	8613
Title of Invention:	ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE
First Named Inventor/Applicant Name:	Luis M. Ortiz
Customer Number:	64064
Filer:	Kermit Dean Lopez/Yvonne Lopez
Filer Authorized By:	Kermit Dean Lopez
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Application Type:	Utility under 35 USC 111(a)

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File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Amendment/Req. Reconsideration-After Non-Final Reject	1000-2296_Response_OA042110.pdf	216323	no	30
Warnings:					
Information:					

Total Files Size (in bytes):	216323

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (07-06)
Approved for use through 1/31/2007. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number	Filing Date	☐ To be Mailed
12/257,205	10/23/2008	

APPLICATION AS FILED – PART I

	(Column 1)	(Column 2)	SMALL ENTITY ☒		OTHER THAN SMALL ENTITY	
FOR	NUMBER FILED	NUMBER EXTRA	RATE ($)	FEE ($)	RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 = *		X $ =	OR	X $ =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 = *		X $ =		X $ =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).					
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))						
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL		TOTAL	

APPLICATION AS AMENDED – PART II

		(Column 1)		(Column 2)	(Column 3)	SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
	07/15/2010	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	Total (37 CFR 1.16(i))	* 39	Minus	** 39	= 0	X $25 =	0	OR	X $ =	
	Independent (37 CFR 1.16(h))	* 7	Minus	*** 7	= 0	X $110 =	0	OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE	0	OR	TOTAL ADD'L FEE	

		(Column 1)		(Column 2)	(Column 3)					
		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)		RATE ($)	ADDITIONAL FEE ($)
AMENDMENT	Total (37 CFR 1.16(i))	*	Minus	**	=	X $ =		OR	X $ =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	X $ =		OR	X $ =	
	☐ Application Size Fee (37 CFR 1.16(s))									
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

Legal Instrument Examiner:
/ROZENIA HARMON/

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/257,205	10/23/2008	Luis M. Ortiz	1000-2296	6013

64094 7590 04/21/2010

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EXAMINER
ELAHEE, MD S

ART UNIT	PAPER NUMBER
3614	

MAIL DATE	DELIVERY MODE
04/21/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	12/257,206	ORTIZ ET AL.	
	Examiner	Art Unit	
	MD S. ELAHEE	3614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on 23 October 2008.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) 1-39 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) 1-39 is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on 23 October 2008 is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/23/2008.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

Priority

1. Applicant's claim for the benefit of a prior-filed application under 35 U.S.C. 119(e) or under 35 U.S.C. 120, 121, or 365(c) is acknowledged. Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 120 as follows:

The later-filed application must be an application for a patent for an invention which is also disclosed in the prior application (the parent or original nonprovisional application or provisional application). The disclosure of the invention in the parent application and in the later-filed application must be sufficient to comply with the requirements of the first paragraph of 35 U.S.C. 112. See *Transco Products, Inc. v. Performance Contracting, Inc.*, 38 F.3d 551, 32 USPQ2d 1077 (Fed. Cir. 1994).

The disclosure of the prior-filed applications, Application No. 09/887492 and 09/902,348, fail to provide adequate support or enablement in the manner provided by the first paragraph of 35 U.S.C. 112 for one or more claims of this application. The claimed first, second, third and fourth wireless transceivers (see independent claims of instant application) were not found in both of the prior applications. Furthermore, the disclosed Fig.(c) and its supporting discloser in the instant application were not supported by both of the prior applications.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on October 23, 2008 was received. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1, 2, 4, 6, 8-10, 12, 13, 15, 17, 19 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran (U.S. Pub. No. 2007/0275746) in view of Wecker et al. (U.S. Patent No. 6,289,464).

Regarding claims 1, 4, 9 and 12, with respect to Figures 1-3, Bitran teaches an electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks (fig.1; page 2, paragraphs 0026-0027, page 3, paragraph 0041-0043, 0045);

Bitran further teaches a second wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks (fig.1; page 2, paragraphs 0026-0027, page 3, paragraph 0041-0043, 0045);

Bitran further teaches a third wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over a direct wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device (fig.1; page 2, paragraphs 0026-0027, page 3, paragraph 0041-0043, 0045);

Bitran further teaches a user interface configured to accept user input into the electronic wireless hand held multimedia device (page 16, paragraph 0085, page 9, paragraph 0120) and

Bitran further a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device (fig.2).

Bitran further teaches a display screen configured to display data received by the electronic wireless hand held multimedia device (fig.1). However, Bitran does not specifically teach displayed data including video and text. Wecker teaches that displayed data includes video and text (fig.2; col.9, line 54-col.10, line 12, col.10, line 60-col.11, line 5). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran to incorporate displayed data including video and text in Bitran's invention as taught by Wecker. The motivation for the modification is to do so in order to transmit multimedia message such that a mobile user can get benefit out of the multimedia message.

Regarding claims 2 and 10, Bitran, as applied to claims 1 and 9, does not specifically teach a global positioning module configured to provide location information for the electronic wireless hand held multimedia device. Wecker teaches a global positioning module configured to provide location information for the electronic wireless hand held multimedia device (fig.2; col.9, line 54-col.10, line 12, col.10, line 60-col 11, line 5). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran to incorporate the feature of providing location information by a global positioning module for the electronic wireless hand held multimedia device in Bitran's invention as taught by Wecker. The motivation for the modification is to do so in order to filter messages such that a mobile user can get receive desired message based on his choice.

Regarding claims 6, 15 and 21, Bitran, as applied to claims 1, 9 and 17, teaches a security module enabling protected data management and communications security (page 1, paragraph 0005).

Regarding claims 8, 13 and 19, Bitran, as applied to claims 1, 9 and 17, does not specifically teach a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device. Wecker teaches a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device (col.4, lines 38-42). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran to incorporate a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device in Bitran's invention as taught by Wecker. The motivation for the modification is to do so in order to communicate with other devices through Infrared communication mechanism.

Claim 17 is rejected for the same reasons as discussed above with respect to claims 1 and 2.

7. Claims 3, 11, 18, 23-25, 27, 29, 31, 33-36 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Dyer et al. (U.S. Patent No. 4,433,387).

Regarding claims 3, 11 and 18, Bitran, as applied to claims 1, 9 and 17, in view of Wecker does not specifically teach a cartridge reader configured to transfer data with an electronic cartridge. Dyer teaches a cartridge reader configured to transfer data with an electronic cartridge (col.13, lines 20-30). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran in view of Wecker to incorporate a cartridge reader configured to transfer data with an electronic cartridge in Bitran's invention in view of Wecker's invention as taught by Dyer. The motivation for the modification is to do so in order to clear the space of storage of the cartridge such that it can be used for future data.

Claim 23 is rejected for the same reasons as discussed above with respect to claims 1 and 3.

Claims 24 and 35 are rejected for the same reasons as discussed above with respect to claim 2.

Claims 25 and 33 are rejected for the same reasons as discussed above with respect to claim 8.

Claims 27, 31 and 38 are rejected for the same reasons as discussed above with respect to claim 6.

Claim 29 is rejected for the same reasons as discussed above with respect to claims 1-3.

Claim 34 is rejected for the same reasons as discussed above with respect to claims 1, 3 and 8.

Claim 36 is rejected for the same reasons as discussed above with respect to claims 1-3 and 8.

8. Claims 5, 14 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Rautila et al. (U.S. Patent No. 6,549,625).

Regarding claims 5, 14 and 20, Bitran, as applied to claims 1, 9 and 17, in view of Wecker does not specifically teach a mobile payment module enabling mobile payments via a variety of billing arrangements. Rautila teaches a mobile payment module enabling mobile payments via a variety of billing arrangements (col.4, lines 41-48). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran in view of Wecker to incorporate a mobile payment module enabling mobile payments via a variety of billing arrangements in Bitran's invention in view of Wecker's invention as taught by Rautila.

The motivation for the modification is to do so in order to clear the space of storage of the cartridge such that it can be used for future data.

9. Claims 26, 30 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Dyer et al. further in view of Rautila et al. (U.S. Patent No. 6,549,625).

Claims 26, 30 and 37 are rejected for the same reasons as discussed above with respect to claim 5.

10. Claims 7, 16 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Purdy et al. (U.S. Patent No. 5,726,660).

Regarding claims 7, 16 and 22, Bitran, as applied to claims 1, 9 and 17, in view of Wecker does not specifically teach a video camera enabling the capture, storage, processing and transmission of video and pictures. Purdy teaches a video camera enabling the capture, storage, processing and transmission of video and pictures (abstract; col.1, line 66-col.2, line 21). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Bitran in view of Wecker to incorporate a video camera enabling the capture, storage, processing and transmission of video and pictures in Bitran's invention in view of Wecker's invention as taught by Purdy. The motivation for the modification is to do so in order to collect

pictures and video that are important for a mobile user such that he can transmit them to a particular user.

11. Claims 28, 32 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bitran in view of Wecker et al. further in view of Dyer et al. further in view of Rautila et al. (U.S. Patent No. 6,549,625).

Claims 28, 32 and 39 are rejected for the same reasons as discussed above with respect to claim 7.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MD S. ELAHEE whose telephone number is (571)272-7536. The examiner can normally be reached on MON-FRI.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, FAN TSANG can be reached on (571)272-7547. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/MD S ELAHEE/
MD SHAFIUL ALAM ELAHEE
Primary Examiner
Art Unit 2614
April 20, 2010

Notice of References Cited	Application/Control No. 12/257,205	Applicant(s)/Patent Under Reexamination ORTIZ ET AL.	
	Examiner MD S. ELAHEE	Art Unit 2614	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2007/0275746	11-2007	Bitran, Yigal	455/509
*	B	US-6,549,625	04-2003	Rautila et al.	380/258
*	C	US-6,269,464	09-2001	Wecker et al.	713/300
*	D	US-5,726,660	03-1998	Purdy et al.	342/357.1
*	E	US-4,433,387	02-1984	Dyer et al.	702/159
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12257205	ORTIZ ET AL.
	Examiner	Art Unit
	MD S ELAHEE	2614

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE									
Final	Original	04/15/2010									
	1	✓									
	2	✓									
	3	✓									
	4	✓									
	5	✓									
	6	✓									
	7	✓									
	8	✓									
	9	✓									
	10	✓									
	11	✓									
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	28	✓									
	29	✓									
	30	✓									
	31	✓									
	32	✓									
	33	✓									
	34	✓									
	35	✓									
	36	✓									

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12257205	ORTIZ ET AL.
	Examiner	Art Unit
	MD S ELAHEE	2614

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/15/2010								
	37	✓								
	38	✓								
	39	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	12257205	ORTIZ ET AL.
	Examiner	Art Unit
	MD S ELAHEE	2614

SEARCHED			
Class	Subclass	Date	Examiner
342	357.1	4/18/2010	ME
713	300	4/18/2010	ME
455	509, 552.1	4/18/2010	ME
702	159	4/18/2010	ME
380	258	4/18/2010	ME

SEARCH NOTES		
Search Notes	Date	Examiner
East	4/18/2010	ME

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

UNITED STATES PATENT AND TRADEMARK OFFICE

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P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 6613

SERIAL NUMBER	FILING or 371(c) DATE RULE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
12/257,205	10/23/2008	455	2614	1000-2296

APPLICANTS

Luis M. Ortiz, Albuquerque, NM;
Kermit D. Lopez, Albuquerque, NM;

** **CONTINUING DATA** **********

This application is a CON of 09/887,492 06/22/2001 PAT 7,630,721
which claims benefit of 60/214,339 06/27/2000
This application 12/257,205 10/23/2008
is a CON of 09/902,348 07/10/2001
which claims benefit of 60/243,561 10/26/2000

** **FOREIGN APPLICATIONS** **********

** **IF REQUIRED, FOREIGN FILING LICENSE GRANTED** ** SMALL ENTITY **
11/05/2008

Foreign Priority claimed	☐ Yes ☑ No		STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119(a-d) conditions met	☐ Yes ☑ No	☐ Met after Allowance				
Verified and Acknowledged	(MS S ELAHEE) Examiner's Signature	Initials	NM	6	39	7

ADDRESS

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P.O. BOX 4484
ALBUQUERQUE, NM 87196-4484
UNITED STATES

TITLE

ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE

FILING FEE RECEIVED	FEES: Authority has been given in Paper	
1396	No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other ☐ Credit

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S8	1536370	((transfer$4 or transmi$4 or generat$5 or send$3 or sent) near3 data	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 13:41
S9	346	cartridge adj reader	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 13:42
S10	32	S8 same S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 13:42
S11	14	S8 with S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 13:50
S12	44	elahee.xp.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 19:29
S13	2	"6011973".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 19:41
S14	2	"5705798".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 19:42
S15	50553	short adj range	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 19:42

S16	36253	long adj range	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 19:42
S17	5664	S15 with S16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 19:43
S18	560	S17 and "455"/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 19:43
S19	16	vending adj machine and S18	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 19:43
S20	71	vending adj machine and S17	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 19:45
S21	26	vending adj machine and S17	USPAT	OR	ON	2010/04/15 19:46
S22	1	"6549625".pn.	USPAT	OR	ON	2010/04/15 19:50
S23	1	elahee.xa. and (short adj range).clm.	USPAT	OR	ON	2010/04/15 19:54
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S25	1	"20020063799"	US-PGPUB	OR	OFF	2010/04/15 20:45
S26	1	S25 and (short adj range)	US-PGPUB	OR	OFF	2010/04/15 20:45
S27	1127	third near transceiver	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 20:53
S28	127	S27 and (short adj range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 20:54

S29	12	S27 same (short adj range)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 20:54
S30	53	S28 and "455"/$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/15 21:05
S31	2	"6510220".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/16 16:47
S32	2	"5790798".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/16 16:56
S34	4	elahee.xp. and remote.clm.	USPAT	OR	OFF	2010/04/18 18:46
S35	7	("20020094869" | "20020147047" | "5410326" | "5713795" | "5990885" | "6223029" | "7017125").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/04/18 18:47
S38	63617	camera near4 ((mobile or cell or cellular or wireless or portable) adj (phone or telephone))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 18:57
S39	18319	video with S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 18:57
S40	11789	(video adj camera) near4 ((mobile or cell or cellular or wireless or portable) adj (phone or telephone))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 18:57
S41	213	picture with S40	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 18:58

S42	2	S41 and (@ad<"20000627" or @rlad<"19990627" or @ptad<"20000627")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 19:01
S43	755	342/357.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 19:06
S44	1	S43 and S39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 19:06
S45	4868	713/300.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 19:18
S46	68	S45 and S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 19:18
S47	1464	455/509.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 19:19
S48	5	S47 and S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 19:19
S49	339	702/159.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 21:18
S50	2	S49 and S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 21:18

S51	273	380/258.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 21:19
S52	1	S51 and S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 21:19
S53	2290	455/552.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 21:21
S54	30	S53 and S38	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/04/18 21:21

4/19/2010 11:58:25 AM
C:\Documents and Settings\selahee\My Documents\EAST\Workspaces\12257205.wsp

FORM PTO-1449 (REV. 7.80)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.: 1000-2296	SERIAL NO. To Be Determined
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT: Luis M. Ortiz, et al.	
		FILING DATE: To Be Determined	GROUP ART UNIT: To Be Determined

U. S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)
		5,189,632	02/23/1993	Paajanen et al.	364	705.05	07/23/1991
		5,485,504	01/16/1996	Ohnsorge	379	58	12/30/1994
		5,491,507	02/13/1996	Umezawa, et al.	348	14	10/22/1993
		5,719,936	02/17/1998	Hillenmayer	379	447	02/29/1996
		5,949,484	09/07/1999	Nakaya et al.	348	384	03/08/1995
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		US6,366,614B1	04/02/2002	Pian et al.	375	240.02	10/11/1996
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		US20010048665	12/06/2001	Park, et al.	370	401	04/20/2001
		US20010041599	11/15/2001	Pirkola, et al.	455	566	12/21/2000

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
	WO00/04732	01/27/2000	WIPO	H04Q	7/20	YES	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	/Md Elahee/	DATE CONSIDERED	04/16/2010

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.E./

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Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	PATENT NUMBER	GROUP ART UNIT	FILE WRAPPER LOCATION
12/257,205		2614	

Correspondence Address/Fee Address Change

The following fields have been set to Customer Number 64064 on 04/21/2009

- Correspondence Address
- Maintenance Fee Address
- Power of Attorney Address

The address of record for Customer Number 64064 is:

64064
ORTIZ & LOPEZ, PLLC
P.O. BOX 4484
ALBUQUERQUE, NM 87196-4484

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/257,205	10/23/2008	Luis M. Ortiz	1000-2296

CONFIRMATION NO. 6613

ORTIZ & LOPEZ, PLLC
P.O. Box 4484
Albuquerque, NM 87196-4484

PUBLICATION NOTICE

OC000000034927305

Title:ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE

Publication No.US-2009-0047992-A1
Publication Date:02/19/2009

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

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Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY DOCKET NO	TOT CLAIMS	IND CLAIMS
12/257,205	10/23/2008	2617	1396	1000-2396	39	7

CONFIRMATION NO. 6613

ORTIZ & LOPEZ, PLLC
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Albuquerque, NM 87196-4484

FILING RECEIPT

OC000000032971122

Date Mailed: 11/07/2008

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

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Kermit D. Lopez, Albuquerque, NM;

Power of Attorney:
Luis Ortiz--36230
Kermit Lopez--41953

Domestic Priority data as claimed by applicant

This application is a CON of 09/887,492 06/22/2001
which claims benefit of 60/214,339 06/27/2000
This application 12/257,205
is a CON of 09/902,348 07/10/2001
which claims benefit of 60/243,561 10/26/2000

Foreign Applications

If Required, Foreign Filing License Granted: 11/05/2008

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 12/257,205**

Projected Publication Date: 02/19/2009

Non-Publication Request: No

Early Publication Request: No
** SMALL ENTITY **

Title

ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE

Preliminary Class

455

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as

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No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.:	1000-2298	Total Pages:	39
First Named Inventor or Application Identifier:			
Luis M. Ortiz, et al.			
Express Mail Label No.:	Not-Applicable		

APPLICATION ELEMENTS

See MPEP Chapter 600 concerning utility patent application contents.

ADDRESS TO: Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

1. ☒ Fee Transmittal Form
(Submit an original, and a duplicate for fee processing)

2. ☒ Specification (incl. claims) (Total Pages: 33)

3. ☒ Drawing(s) (35 USC 113) (Total Sheets: 6)

☐ Informal ☒ Formal

Use Figure 1(a) for front page of Publication.

4. ☒ Oath or Declaration

a. ☒ Newly executed
(original or copy)

b. ☐ Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)
[Note Box 5 below]

☐ i. DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

5. ☐ Incorporation By Reference
(usable if Box 4b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. ☐ Microfiche Computer Program (Appendix)

7. Nucleotide and/or Amino Acid Sequence Submission
(If applicable, all necessary)

a. ☐ Computer Readable Copy
b. ☐ Paper Copy (identical to computer copy)
c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. ☐ Assignment Papers (cover sheet & document(s))

9. ☐ 37 CFR 3.73(b) Statement ☒ Power of Attorney
(when there is an assignee)

10. ☐ English Translation Document (if applicable)

11. ☒ Information Disclosure Statement (IDS)/PTO-1449

12. ☐ Preliminary Amendment

13. ☐ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)

14. ☐ Small Entity Statement(s) ☐ Statement filed in prior application, Status still proper and desired

15. ☐ Certified Copy of Priority Document(s)
(If foreign priority is claimed)

16. ☐ Other

17. ☒ **CROSS-REFERENCE TO PROVISIONAL PATENT APPLICATION.** This patent application is a continuation of U.S. Patent Application Serial No. 09/887,492, entitled "Systems, Methods and Apparatuses for Brokering Data Between Wireless Devices and Data Rendering Devices," which was filed on June 22, 2001, and claims priority to U.S. Provisional Patent Application, Serial No. 60/214,339, entitled "Systems, Methods and Apparatuses for Brokering Data Between Wireless Devices and Data Rendering Devices," which was filed on June 27, 2000. This patent application is also a continuation of U.S. Patent Application Serial No.09/902,348, entitled "Providing Multiple Perspectives of a Venue Activity to Electronic Wireless Hand-Held Devices," was filed on July 10, 2001 and which claims the benefit of U.S. Provisional Application Serial Number 60/243,861, which was filed on October 26, 2000. All the aforementioned applications are incorporated herein by reference in their entirety. This patent application therefore traces its priority date back to the June 27, 2000 and October 26, 2000 with the filing of the referenced U.S. Provisional patent Applications

18. CORRESPONDENCE ADDRESS					
☐ Same as prior application		☒ Correspondence address below			
NAME	ORTIZ & LOPEZ, PLLC				
ADDRESS	P.O. Box 4484				
CITY	Albuquerque	STATE	New Mexico	ZIP CODE	87196
COUNTRY	U.S.A.	TELEPHONE	(505) 314-1311	FAX	(505) 314-1307

19. ☒ The filing fee is calculated below:

CLAIMS AS FILED, LESS ANY CLAIMS CANCELED BY ABOVE-INDICATED AMENDMENT(S)				
(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
TOTAL CLAIMS (37 CFR 1.16(c))	39 - 20 =	19	x $ 26	= $494.00
INDEPENDENT CLAIMS (37 CFR 1.16(b))	7 - 3 =	4	x $ 110	= $440.00
MULTIPLE DEPENDENT CLAIMS (IF APPLICABLE) (37 CFR 1.16(d))		ANY - - 0	$ 195	= $ 0.00
BASIC FILING FEE				82.00
UTILITY SEARCH FEE				270.00
UTILITY EXAMINATION FEE				110.00
TOTAL			=	$ 1396.00

20. ☒ This is an authorization under 37 CFR 1.136(a)(3) to treat any concurrent or future reply, requiring a petition for extension of time, as incorporating a petition for the appropriate extension of time.

21. ☒ Power of Attorney

a. ☐ The power of attorney appears in the original papers of the enclosed prior application.
b. ☐ Enclosed is a copy of the declaration and power of attorney from the enclosed prior application.
c. ☒ A new declaration with power of attorney is enclosed.

Respectfully submitted,

Kermit Lopez
Signature per 37 CFR 1.33 & 34
Date: October 23, 2008
Registration No. 41,953

ORTIZ & LOPEZ, PLLC
Patent Attorneys
PO Box 4484
Albuquerque, NM 87196-4484
Telephone (505) 314-1312

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In re application of: Luis M. Ortiz, et al.

For: **ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE**

Attorney Docket Number: 1000-2296

DECLARATION & POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

1. My residence, post office address, and citizenship are as stated below next to my name.

2. I believe that I am the true and original inventor of the subject matter that is claimed and for which a patent is sought on the invention entitled:

   ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE

3. I have reviewed and understand the contents of the above-identified specification, including the claims.

4. This application is a continuation of U.S. Patent Application Serial No. 09/887,492, entitled "Systems, Methods and Apparatuses for Brokering Data Between Wireless Devices and Data Rendering Devices," which was filed on June 22, 2001, and claims priority to U.S. Provisional Patent Application, Serial No. 60/214,339, entitled "Systems, Methods and Apparatuses for Brokering Data Between Wireless Devices and Data Rendering Devices," which was filed on June 27, 2000. This patent application is also a continuation of U.S. Patent Application Serial No.09/902,348, entitled "Providing Multiple Perspectives of a Venue Activity to Electronic Wireless Hand-Held Devices," was filed on July 10, 2001 and claims the benefit of U.S. Provisional Application Serial Number 60/243,561, which was filed on October 26, 2000. All the aforementioned applications are incorporated herein by reference in their entirety. This patent application therefore traces its priority date back to the June 27, 2000 and October 26, 2000 with the filing of the referenced U.S. Provisional patent Applications.

5. I acknowledge the duty to disclose information, which is material to the patentability of this application as defined by Title 37, Code of Federal Regulations, § 1.56.

6. I hereby appoint Luis M. Ortiz and Kermit D. Lopez, patent agents and/or patent attorneys registered and recognized before the United States Patent and Trademark Office as follows:

Luis M. Ortiz, Registration. No. 36,230
Kermit D. Lopez, Registration. No. 41,953

Messrs Ortiz and Lopez will prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith, and to file and prosecute any international patent application filed thereon before any international authorities under the Patent Cooperation Treaty.

Send correspondence to:

ORTIZ & LOPEZ, PLLC
Patent Attorneys
PO BOX 4484
Albuquerque, NM 87196-4484

Attorney Docket No. 1000-2296

7. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of 1st Joint Inventor:	**Luis M. Ortiz**
Inventor Signature:	
Date:	August 23, 2008
Residence:	Albuquerque, New Mexico, U.S.A.
Post Office Address	7005 Vista Del Arroyo N.E. Albuquerque, NM 87109
Citizenship:	U.S.A.

Full name of 2nd Joint Inventor:	**Kermit D. Lopez**
Inventor Signature:	Kermit D. Lopez
Date:	10/23/2008
Residence:	Albuquerque, New Mexico, U.S.A.
Post Office Address	4000 Constitution N.E. Albuquerque, NM 87110
Citizenship:	U.S.A.

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

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NAME	ORTIZ & LOPEZ, PLLC				
ADDRESS	P.O. Box 4484				
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COUNTRY	U.S.A.	TELEPHONE	(505) 314-1311	FAX	(505) 314-1307

19. ☒ The filing fee is calculated below:

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c. ☒ A new declaration with power of attorney is enclosed.

Respectfully submitted,

Kermit Lopez
Signature per 37 CFR 1.33 & 34
Date: October 23, 2008
Registration No. 41,953

ORTIZ & LOPEZ, PLLC
Patent Attorneys
PO Box 4484
Albuquerque, NM 87196-4484
Telephone (505) 314-1312

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))	Docket No. 1000-2296

In Re Application Of: **Luis M. Ortiz, et al.**

Application No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.
TBD	TBD	TBD	TBD	TBD	TBD

Title: **ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE**

Address to:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

   ☐ the statement specified in 37 CFR 1.97(e);

   OR

   ☐ the fee set forth in 37 CFR 1.17(p).

P10A/REV05

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))	Docket No 1000-2296

In Re Application of: **Luis M. Ortiz, et al.**

Application No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.
TBD	TBD	TBD	TBD	TBD	TBD

Title: **ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE**

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

☐ A check in the amount of _____ is attached.

☐ The Director is hereby authorized to charge and credit Deposit Account No. _____ as described below.

- ☐ Charge the amount of
- ☐ Credit any overpayment.
- ☐ Charge any additional fee required.

☐ Payment by credit card. Form PTO-2038 is attached.

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Dated: **October 23, 2008**

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LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT: Luis M. Ortiz, et al.	
		FILING DATE: To Be Determined	GROUP ART UNIT: To Be Determined

U. S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)
		5,189,632	02/23/1993	Paajanen et al.	364	705.05	07/23/1991
		5,485,504	01/16/1996	Ohmsorge	379	58	12/30/1994
		5,491,507	02/13/1996	Umezawa, et al.	348	14	10/22/1993
		5,719,936	02/17/1998	Hillenmayer	379	447	02/29/1996
		5,949,484	09/07/1999	Nakaya et al.	348	384	03/08/1995
		6,069,648	05/30/2000	Suso, et al.	348	14	08/14/1998
		6,085,112	07/04/2000	Kleinschmidt et al.	455	556	05/02/1996
		6,137,525	10/24/2000	Lee et al.	348	14	02/17/1998
		US6,278,884B1	08/21/2001	Kim	455	556	04/25/1997
		US6,366,614B1	04/02/2002	Pian et al.	375	240.02	10/11/1996
		US6,434,403B1	08/13/2002	Ausems et al.	455	556	02/19/1999
		US6,694,150B1	02/17/2004	Standke et al.	455	552.1	02/12/2000
		US6,714,797B1	03/30/2004	Rautila	455	552.1	05/17/2000
		US7,321,783B2	01/22/2008	Kim	455	556.1	11/20/2003
		US20010048665	12/06/2001	Park, et al.	370	401	04/20/2001
		US20010041599	11/15/2001	Pirkola, et al.	455	566	12/21/2000

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO
	WO00/04732	01/27/2000	WIPO	H04Q	7/20	YES	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H04Q 7/20 — A1

(11) International Publication Number: **WO 00/04732**

(43) International Publication Date: 27 January 2000 (27.01.00)

(21) International Application Number: PCT/IL99/00389

(22) International Filing Date: 14 July 1999 (14.07.99)

(30) Priority Data:
09/116,051 15 July 1998 (15.07.98) US

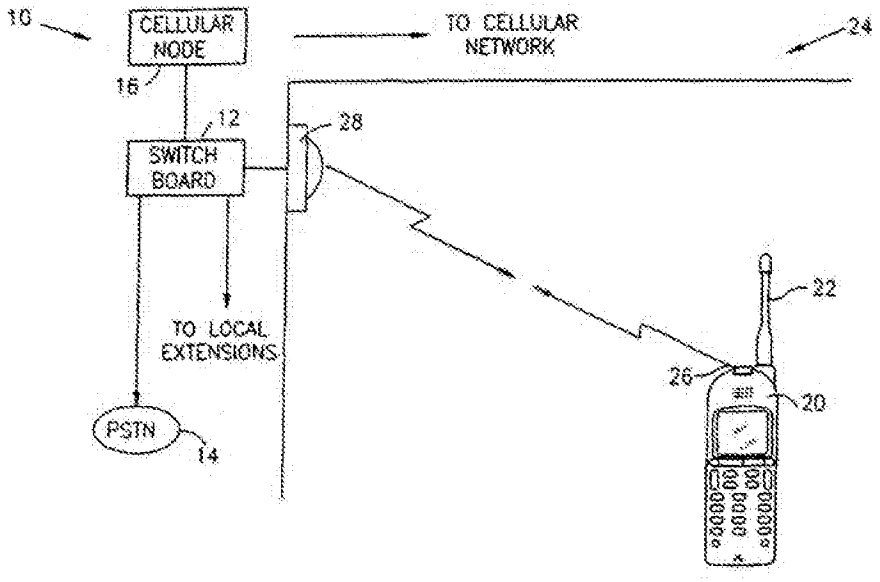
(71)(72) Applicant and Inventor: RUZIACK, Yaron [IL/IL]; 42910 Moshav Avichail (IL).

(74) Agents: COLB, Sanford, T. et al.; Sanford T. Colb & Co., P.O. Box 2273, 76122 Rehovot (IL).

(81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published
With international search report.

(54) Title: CELLULAR PHONE WITH IR LINK



(57) Abstract

A local telephone network (10) includes a switchboard and at least one base station coupled to the switchboard and including an IR transmitter and receiver. A dual-mode wireless telephone (20) includes an IR interface device, which communicates with the base station IR transmitter and receiver (28), and an RF interface device, which communicates with a cellular communications network.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

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CH	Switzerland	KG	Kyrgyzstan	NO	Norway	ZW	Zimbabwe
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CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	LI	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

CELLULAR PHONE WITH IR LINK

FIELD OF THE INVENTION

The present invention relates generally to wireless communication devices, and specifically to infrared (IR) wireless telephones.

BACKGROUND OF THE INVENTION

Wireless telephones, including both cellular telephones and cordless phones, generally communicate using RF transmission and reception. IR wireless phones are also known in the art, however. Such telephones typically provide for two-way diffuse IR transmission between a wired telephone line and a telephone handset.

For example, European patent application no. 558,812, which is incorporated herein by reference, describes a cordless telephone handset that is linked by a photodiode and LED to a fixed station having an IR transmitter and receiver, coupled to a conventional telephone line. The fixed station is placed on a desk or mounted on a wall, while the handset can be moved around within the room. The use of IR communications, in place of RF, reduces susceptibility to interference with and interception of communications and also reduces the exposure of users of the telephone to potentially harmful radiation.

Sharp Corporation, of Japan, offers the "PMC" line of cellular telephones having an IR communication port. This port is designed for local, very short-range communication, with a personal computer, for example, enabling the cellular telephone to be used for data communication, typically in order to download information from the computer to an organizer embedded in the telephone. The telephone communicates with its cellular network exclusively by means of a conventional RF transmitter/receiver. The Nokia 9000 series of cellular telephones offers similar capabilities.

SUMMARY OF THE INVENTION

It is an object of some aspects of the present invention to provide a cellular telephone that reduces the exposure of users thereof to RF radiation.

It is a further object of some aspects of the present invention to provide a cellular telephone having reduced susceptibility to interference with and interception of wireless transmissions.

It is still a further object of some aspects of the present invention to provide a telephone system for businesses and other enterprises offering improved convenience and reduced operating costs.

In preferred embodiments of the present invention, a cellular telephone comprises both RF and omni-directional IR communications interfaces. The IR interface communicates with suitable IR transmitter/receiver base stations, located within a building, typically an office, which stations are coupled to a local telephone network in the building. When the cellular telephone is inside the building, its location is registered by the local telephone network, and calls to and from the telephone are routed through the network, via IR link between the telephone and one of the base stations in proximity thereto. Preferably, the telephone is capable, through the local network, of placing calls to and receiving calls from other telephones in the building and other wired and cellular telephones outside the building. When the telephone leaves the building, it communicates via its RF communications interface, like a conventional cellular telephone, with transmission stations of a cellular telephone network.

There is therefore provided, in accordance with a preferred embodiment of the present invention, a dual-mode wireless telephone, including:

a RF interface, which communicates with a cellular communications network; and

an IR interface, which communicates with a local telephone network.

Preferably, the IR interface includes an omni-directional interface.

Preferably, the telephone includes a selector, which selects either the RF or the IR interface to be operational for conveying a telephone call between the interface and the respective network. Preferably, the IR interface detects an IR signal transmitted by an IR base station associated with the local telephone network, and the selector selects the IR interface responsive to the signal. Preferably, the selector selects the RF interface when the IR signal is not detected, and the IR interface detects the IR signal while the RF interface is selected.

There is also provided, in accordance with a preferred embodiment of the present invention, a local telephone network, including:

a switchboard,

at least one base station coupled to the switchboard and including an IR transmitter and receiver; and

a dual-mode wireless telephone, including an IR interface device, which communicates with the base station IR transmitter and receiver, and a RF interface device, which communicates with a cellular communications network.

Preferably, the IR transmitter and receiver respectively include an omni-directional transmitter and an omni-directional receiver.

Preferably, the telephone communicates with the at least one base station substantially exclusively when the telephone is in a vicinity of the base station, wherein the RF interface is substantially deactivated while the telephone is in communication with the base station.

Further preferably, the switchboard communicates with a public telephone network and routes calls to and from the public telephone network through the at least one base station to the telephone. Preferably, the network includes a cellular node coupled to the switchboard, which communicates with the cellular communications network to route cellular calls for the telephone through the local telephone network.

There is also provided, in accordance with a preferred embodiment of the present invention, a method for controlling communications of a wireless telephone having both IR and RF interfaces, including:

communicating using the telephone over the RF interface with a cellular communications network;

sensing the IR signals transmitted by a local telephone network, using the telephone's IR interface; and

transferring the communications of the telephone from the RF interface to the IR interface.

Preferably, sensing the IR signals includes sensing omni-directional IR signals.

Further preferably, transferring the communications includes communicating via the IR interface with the local network, wherein communicating with the local network includes routing cellular calls through the local network.

The present invention will be more fully understood from the following detailed description of the preferred embodiments thereof, taken together with the drawings in which:

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a schematic illustration showing a local telephone network, in accordance with a preferred embodiment of the present invention, and

Fig. 2 is a schematic illustration showing a dual-mode telephone for use in the network of Fig. 1, in accordance with a preferred embodiment of the present invention.

DETAILED DESCRIPTION OF A PREFERRED EMBODIMENT

Reference is now made to Figs. 1 and 2, which schematically illustrate a multi-mode local telephone network 10 and a dual-mode wireless telephone 20 for use in the network, in accordance with a preferred embodiment of the present invention. Telephone 20 is shown in Fig. 1 inside a building 24, in which network 10 is wired.

Telephone 20 includes both an antenna 22, with a suitable RF radio unit 30, for communicating with a cellular telephone network outside building 24, and an IR interface device 26, for communicating with IR transmitter/receiver base stations 28 inside the building. IR interface device 26 and base station 28 comprise omni-directional IR transmitters, such as LEDs, and receivers, such as photodiodes. The LEDs and photodiodes preferably have optics coupled thereto suitable for achieving omni-directional transmission and reception, as described, for example, in US Patent Application 08/992,934, which is assigned to the assignee of the present patent application and incorporated herein by reference. Thus, as long as telephone 20 is within a certain radius of base station 28, preferably about 8 m, and the telephone's IR interface device 26 is not completely obscured, communications between the telephone and the station will be maintained. It is not necessary that device 26 be pointed toward station 28 or that there even be a clear line of sight between them, since the IR receivers will also receive radiation reflected from interior walls of the building.

Local network 10 comprises a switchboard 12 which automatically detects when telephone 20 enters building 24 and which registers the location of the telephone in the building as a user of the telephone carries it from room to room. Preferably, switchboard 12 detects and registers telephone 20 by IR communication with interface device 26, even when the telephone is in an idle mode (i.e., not engaged in a call). Switchboard 12 associates telephone 20 with a predetermined telephone extension

number, which is preferably permanently assigned to the user. Thus, when another user inside building 24 dials the extension of the user of telephone 20, switchboard 10 automatically routes the call via base station 28 to telephone 20. Calls from a public switched telephone network (PSTN) 14 for the user of telephone 20 are also routed by the switchboard to the appropriate base station. The user may similarly make outgoing calls to other extensions served by switchboard 12 and to telephones outside building 24 through PSTN 14 via base station 28 and switchboard 12.

Switchboard 12 also communicates with a dedicated cellular node 16, which notifies the cellular network that telephone 20 is within the ambit of the node. The cellular node may communicate with the cellular network either via a radio interface, preferably on normal cellular transmission frequencies, or via a special cable interface. Telephone 20 is assigned an ordinary subscriber telephone number in the cellular network, and can make and receive cellular calls using the number when the telephone is outside building 24. Inside the building, however, incoming cellular calls for the user of telephone 20 are preferably routed by the cellular network automatically to node 16, and from there via switchboard 12 to the telephone. Telephone 20 is generally prevented by switchboard 12 from making outgoing cellular calls while inside building 24, because of the high cost of such calls, and the outgoing calls are automatically routed to PSTN 14. The routing of both incoming and outgoing calls is preferably transparent both to the user of telephone 20 and to the party at the other end of the call.

Optionally, when telephone 20 is outside building 24, or is for some other reason out of contact with base stations 28 in the building, switchboard 12 automatically routes calls for the telephone to the telephone number in the cellular network, preferably via cellular node 16. Thus, whenever the extension of the user of telephone 20 is dialed, switchboard 12 forwards the call to the telephone, through either its RF or IR interface.

The use of network 10 and telephone 20 has several important advantages for the operator of the network (generally a business or other enterprise occupying building 24) and the telephone user. For the operator, the network saves on cellular communications costs, reduces the probability that communications will be intercepted by other parties, and enables telephone users, generally employees of the operator, to

be reached conveniently wherever they are by dialing a single number. For the user, telephone 20 reduces exposure to RF radiation from the telephone, which is believed to have adverse health effects, and provides improved reception, with generally higher bandwidth and reduced interference, when the user is within the building.

Referring now to Fig. 2, it will be observed that telephone 20 includes both RF radio unit 30, coupled to antenna 22, and an IR interface driver 32, coupled to IR interface device 26. Radio unit 30 and driver 32 are coupled via a selector 34 to user input/output equipment 36 (including microphone, speaker, keypad and display) and to other elements of the telephone, which are well known in the art and omitted from the figure for simplicity. When telephone 20 is outside building 24 or otherwise out of communication with base stations 28 in the building, selector 34 defaults to RF operation, and the telephone functions as though it were a conventional cellular telephone. Inside the building, however, selector 34 selects IR driver 32, and the RF radio unit is shut off.

Preferably, in order to determine when to switch over to IR operation, IR driver 32 remains active in a standby mode, even when telephone 20 is idle or is communicating using the RF unit. When the telephone enters building 24, IR interface device 26 begins to receive coded signals from base station 28. IR driver 32 (or alternatively, logic circuits or a processor coupled thereto) analyzes these signals and recognizes the code. Telephone 20 responds to the signals by transmitting an acknowledgment message via interface device 26 and base station 28 to switchboard 12. The switchboard registers the location of the telephone, and calls to and from the telephone are thereafter routed through network 10, as described hereinabove, for as long as IR communications are maintained.

In addition to their functions in communicating with network 10, IR interface device 26 and driver 32 may also be used to communicate with other types of IR-enabled equipment, for example, a portable or desktop computer, Web-enabled television or Personal Digital Assistant. In this way, by addition of suitable software to telephone 20, its IR capabilities can serve for data input and output, as well. Similarly, the IR capabilities can enable the telephone to be used for Internet Web browsing, without going through the cellular network.

It will be appreciated that the preferred embodiments described above are cited by way of example, and the full scope of the invention is limited only by the claims.

WE CLAIM:

1. A dual-mode wireless telephone, comprising:

a RF interface, which communicates with a cellular communications network; and

an IR interface, which communicates with a local telephone network.

2. A telephone according to claim 1, wherein the IR interface comprises an omni-directional interface.

3. A telephone according to claim 1, and comprising a selector, which selects either the RF or the IR interface to be operational for conveying a telephone call between the interface and the respective network.

4. A telephone according to claim 3, wherein the IR interface detects an IR signal transmitted by an IR base station associated with the local telephone network, and wherein the selector selects the IR interface responsive to the signal.

5. A telephone according to claim 4, wherein the selector selects the RF interface when the IR signal is not detected.

6. A telephone according to claim 4, wherein the IR interface detects the IR signal while the RF interface is selected.

7. A local telephone network, comprising:

a switchboard;

at least one base station coupled to the switchboard and comprising an IR transmitter and receiver; and

a dual-mode wireless telephone, comprising an IR interface device, which communicates with the base station IR transmitter and receiver, and a RF interface device, which communicates with a cellular communications network.

8. A network according to claim 7, wherein the IR transmitter and receiver respectively comprise an omni-directional transmitter and an omni-directional receiver.

9. A network according to claim 7, wherein the telephone communicates with the at least one base station substantially exclusively when the telephone is in a vicinity of the base station.

10. A network according to claim 9, wherein the RF interface is substantially deactivated while the telephone is in communication with the base station.

11. A network according to claim 7, wherein the switchboard communicates with a public telephone network and routes calls to and from the public telephone network through the at least one base station to the telephone.

12. A network according to claim 7, and comprising a cellular node coupled to the switchboard, which communicates with the cellular communications network to route cellular calls for the telephone through the local telephone network.

13. A method for controlling communications of a wireless telephone having both IR and RF interfaces, comprising:

communicating using the telephone over the RF interface with a cellular communications network;

sensing the IR signals transmitted by a local telephone network, using the telephone's IR interface; and

transferring the communications of the telephone from the RF interface to the IR interface.

14. A method according to claim 13, wherein sensing the IR signals comprises sensing omni-directional IR signals.

15. A method according to claim 13, wherein transferring the communications comprises communicating via the IR interface with the local network.

16. A method according to claim 15, wherein communicating with the local network comprises routing cellular calls through the local network.

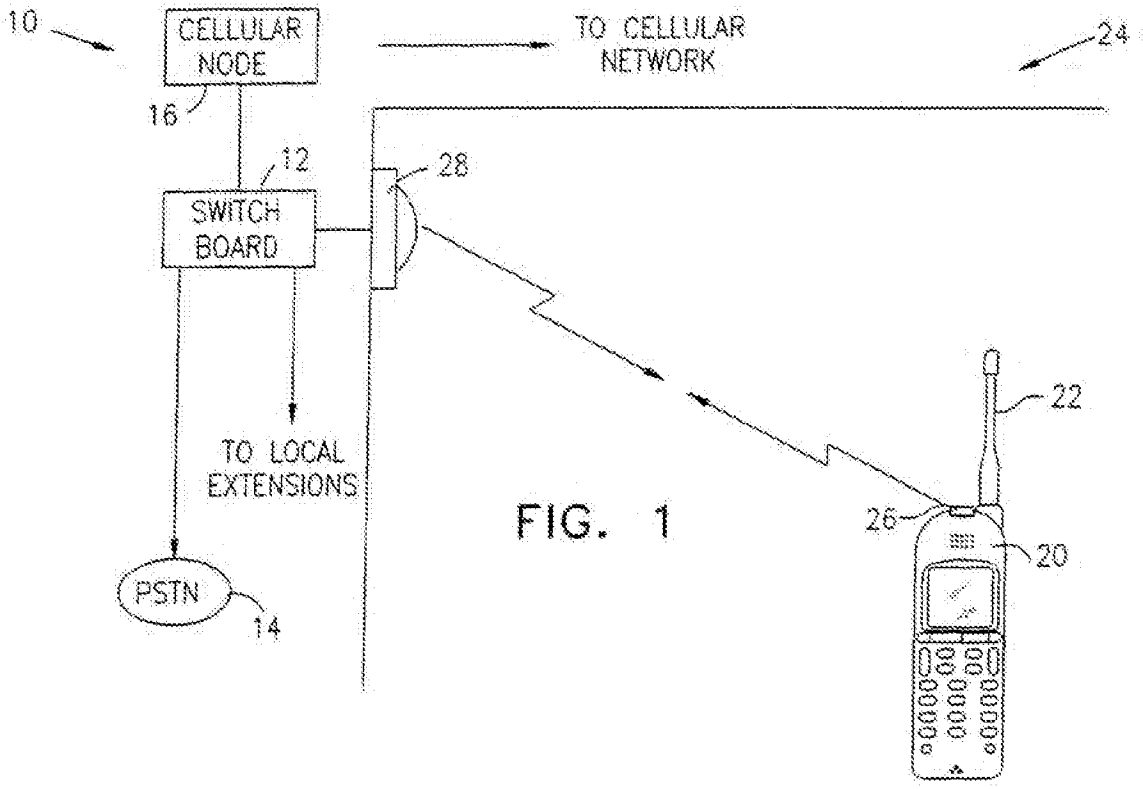
10
CELLULAR NODE
16
TO CELLULAR NETWORK
24
12
SWITCH BOARD
28
TO LOCAL EXTENSIONS
PSTN
14
22
26
20

FIG. 1

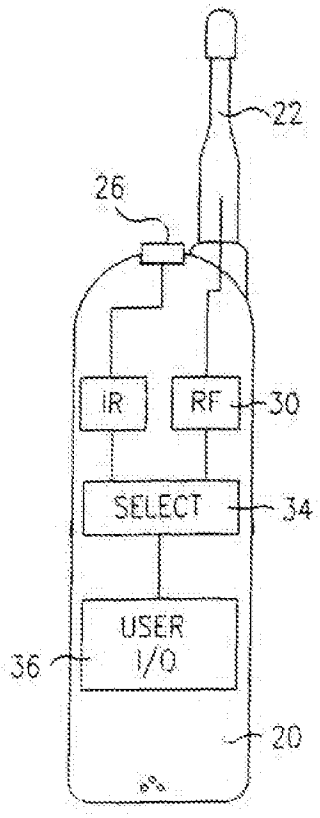
22
26
IR
RF
30
SELECT
34
USER I/O
36
20

FIG. 2

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL99/00389

A. CLASSIFICATION OF SUBJECT MATTER
IPC(6) :H04Q 7/20
US CL. :Please See Extra Sheet.
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : Please See Extra Sheet.

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,241,410 A (STRECK et al) 31 August 1993, see entire document.	1, 3-7, 9, 13 and 15.
Y		2, 8, 10-12 14, 16.
Y	US 5,566,022 A (SEGEV) 15 October 1996, abstract; col. 2, lines 57-65; fig. 1.	2,8,14.
Y	US 5,535,432 A (DENT) 09 July 1996, col. 3, lines 49-55.	10
Y	US 5,659,598 A (BYRNE et al) 19 August 1997, fig. 1, col. 4, lines 17-35.	11, 12, 16.

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

*	Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E"	earlier document published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 01 SEPTEMBER 1999	Date of mailing of the international search report 05 OCT 1999
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer NAY AUNG MAUNG Telephone No. (703) 308-7745

Form PCT/ISA/210 (second sheet)(July 1992) ★

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL99/00389

A. CLASSIFICATION OF SUBJECT MATTER:
US CL. :

379/56.1, 56.2, 56.3; 455/90, 38.3, 343, 422, 432, 435, 436, 552, 553, 556, 574, 575; 370/310, 338; 359/145, 172; 340/825.71, 825.72

B. FIELDS SEARCHED
Minimum documentation searched
Classification System: U.S.

379/56.1, 56.2, 56.3; 455/90, 38.3, 343, 422, 432, 435, 436, 552, 553, 556, 574, 575; 370/310, 338; 359/145, 172; 340/825.71, 825.72

Form PCT/ISA/210 (extra sheet)(July 1992) ✦

ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE

PRIORITY CLAIM AND CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This patent application is a continuation of U.S. Patent Application Serial No. 09/887,492, entitled "Systems, Methods and Apparatuses for Brokering Data Between Wireless Devices and Data Rendering Devices," which was filed on June 22, 2001, and claims priority to U.S. Provisional Patent Application, Serial No. 60/214,339, entitled "Systems, Methods and Apparatuses for Brokering Data Between Wireless Devices and Data Rendering Devices," which was filed on June 27, 2000. This patent application is also a continuation of U.S. Patent Application Serial No. 09/902,348, entitled "Providing Multiple Perspectives of a Venue Activity to Electronic Hand-Held Devices," filed on November 8, 2000, which claims the benefit of U.S. Provisional Application Serial Number 60/243,561, which was filed on October 26, 2000. All the aforementioned applications are incorporated herein by reference in their entirety. This patent application therefore traces its priority date back to June 27, 2000 and October 26, 2000 with the filing of the above-referenced U.S. Provisional patent Applications.

TECHNICAL FIELD

[0002] Embodiments are related to electronic wireless hand held devices, such as Personal Digital Assistants (PDAs), mobile phones and data-enabled wireless telephones. Embodiments are also related to an electronic wireless hand held multimedia device capable of processing multimedia data including video on a touch sensitive display screen associated with the hand held device. In addition, Embodiments relate to techniques for providing electronic wireless hand held multimedia devices capable of multimedia data transmission and retrieval from multiple networks and wireless connections including: cellular (including 3G), 802.11 standard networks such as a wireless local area network (WLAN), and short range and/or line of sight communications standards and networks such as that supported by Bluetooth, IrDA (infrared), and RFID. Embodiments also relate to electronic wireless hand held multimedia devices capable of determining location

information and directions using GPS and by displaying maps retrieved from remote servers (e.g., via the Internet) on touch sensitive display screens associated with the electronic wireless hand held multimedia devices. Embodiments also relate to electronic wireless hand held multimedia devices capable of moving data to/from, and operating with, a removable cartridge (e.g., external memory, smart card, card-based application modules and electronics).

BACKGROUND OF THE INVENTION

[0003] Electronic wireless hand held devices, such as, for example PDAs, mobile phones, data/video-enabled cellular telephones, and other hand held wireless video-enabled devices have become a part of everyday life. For example, the shift in the consumer electronics industry from an emphasis on analog technology to a preference for digital technology is largely based on the fact that the former generally limits the user to a role of a passive recipient of information, while the latter is interactive and allows the user to control what, when, and how he or she receives and manipulates certain information. This shift in focus has resulted in the development and increasingly widespread use of a digital device generically referred to as a "personal digital assistant" (PDA).

[0004] PDAs are hand held computing devices (i.e., hereinafter referred to as "hand held devices" or "handheld devices") that are popular for processing, storing and maintaining information. The most advanced data-enabled wireless communication devices available in the marketplace on June 27, 2000, the priority date of this patent application, took the form of a PDA. Examples of hand held devices that could be utilized in accordance with the methods and systems of the present invention include the "PalmPilot™" PDA, manufactured and sold by Palm Computing, the Handspring Visor™, Window CE™ compatible devices, RIM™ Blackberry-family devices, Motorola devices, and the Symbol™ SPT-family of PDA-type organizer devices. Unlike personal computers, which are general-purpose devices geared towards refining and processing information, PDAs are designed to capture, store and display information originating from various sources while a user in "on the go" or otherwise mobile. Additionally, while a certain level of skill is required to use

a personal computer effectively. PDAs are designed with the novice and non-computer user in mind and are therefore intuitively easy to use.

[0005] A typical PDA includes a microprocessor, memory unit, a display, associated encoder circuitry, and a user interface generally provided in the form of a keyboard and selector buttons. A PDA can optionally contain an infrared emitter and wireless receiver. A graphical user interface permits a user to store, retrieve and manipulate data via an interactive touch-sensitive display. A PDA can also include software that enables software applications for using a calendar, directory, calculator, games, and one or more multimedia programs. The calendar typically provides dates organized as rows and columns in the usual form. A directory contains entries consisting of a name field and a free form alphanumeric text field that can contain company names, addresses, telephone and fax numbers, email addresses, etc. Games and multimedia software features can vary.

[0006] A menu of icons displayed via the graphical user interface as part of the touch sensitive screen can permit a user to choose particular functions and directories. Some PDAs come equipped with a stylus, which is a plastic-tipped pen that a user utilizes to write digitally on the display area and tap particular graphically displayed icons; although a user's figure nail can accomplish the same. Each icon is indicative of a particular activity or function. Touch screen interfaces, however, are also increasingly being implemented with PDAs to permit a user to activate software modules in the form of routines and subroutines operable therein.

[0007] Although it was generally known before June 27, 2000 that PDAs can be connected to a desktop personal computer or other PDAs via infrared, direct wire, or a single wireless communication links, PDAs and similar hand held devices were not available that could selectively link to more than one wireless connection for purposes of accessing remote multimedia data and multimedia data sources, such as the Internet and remote servers. PDAs were not provided that included more than one wireless transceiver module to enable remote access via 802.11, cellular, short/visible range (e.g., Bluetooth), infrared, and GPS resources, and also provide enhanced computing capabilities including the capability of processing and viewing multimedia data such as video broadcasts.

[0008] In the year 2000, the present inventors realized when they filed their patent applications that what would be needed in the future, among other things, was a electronic wireless hand held multimedia device that could connect to various data networks and establish short/visible range data connections with electronic devices located in close proximity, provide multimedia capabilities including remotely accessing and displaying of video, enabling access to email and multimedia content from the Internet including servers and the World Wide Web, determining location information and enable the determination and provision of directions to alternate location by accessing remote map information and displaying the map information on the display touch sensitive display screen, a technique which can be referred to as GPS mapping, and enable mobile payments through the device, for example, by enabling hand held device users to be billed a transaction fee via bank accounts (e.g., ATM, Debit and Credit cards) billing via communication service accounts or arrangements, and prepaid services, and other authorized account-related billing arrangements. A security module can be provided to enable protected data retrieval and management by enabling the use of pass codes, passwords and/or biometrics as well as communications security over communications signals during hand held device use. A video camera and video transmission capabilities enable user to capture, store, process and transmit video and take pictures.

BRIEF SUMMARY

[0009] One aspect of the present invention is to provide a vastly improved electronic wireless hand held multimedia device than what was publicly available prior to June 27, 2000.

[0010] Another aspect of the present invention provides electronic wireless hand held multimedia device configured for the retrieval, processing and transmission of multimedia data to/from remote data resources over various wireless communications means.

[0011] It is yet another aspect of the present invention to provide an electronic wireless hand held multimedia device capable of communicating with a variety of different types of wireless networks.

[0012] It is yet another aspect of the present invention to provide an electronic wireless hand held multimedia device includes a microprocessor and more than one wireless transceiver modules enabling wireless communications over a variety of communications standards, including Cellular (e.g., GSM, CDMA, GPRS, 3G), 802.11 (e.g., WLAN), and short range and/or line of sight range (e.g., Bluetooth, infrared, RFID), for the retrieval, processing and delivery of multimedia data to/from remote data resources (e.g., Internet, servers).

[0013] It is yet another aspect of the present invention that the hand held device can include any of the following: a touch sensitive display screen configured to display multimedia data including video, text and GPS maps, and accept user input; a cartridge reader configured to transfer data with an electronic cartridge; a GPS module configured to operate with mapping resources and provide location information in the form of GPS mapping; a mobile payment module enabling mobile payments via a variety of billing arrangements; a security module enabling protected data management and communications security; a video camera enabling the capture, storage, processing and transmission of video and pictures.

[0014] The above and other aspects of the present invention are achieved as will now be further described. An electronic wireless hand held multimedia device is disclosed, which includes more than one wireless transceiver modules configured for the receipt, processing and transmission of multimedia data to and from remote data resources over more than one standard of wireless communication. For example the electronic wireless hand held multimedia device includes a first wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks and standards (e.g., 3G, CDMA, GPRS, and GSM). The electronic wireless hand held multimedia device also includes a second wireless transceiver module configured to support bi-directional data

communications of the electronic wireless hand held multimedia device with remote data resources over 802.11 communications standards and networks including wireless local area networks (WLAN). The electronic wireless hand held multimedia device can also include a third wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over a direct wireless connection with electronic devices located within short RF range or visible proximity of the electronic wireless hand held multimedia devices.

[0015] The electronic wireless hand held multimedia device can be equipped with a display screen configured to display data including video and text received by the electronic wireless hand held multimedia device. The electronic wireless hand held multimedia device can also include a user interface configured to accept user input into the electronic wireless hand held multimedia device. Additionally, the electronic wireless hand held multimedia device can also include a microprocessor configured to facilitate the operation of, and communications by, the electronic wireless hand held multimedia device.

[0016] The electronic wireless hand held multimedia device can additionally include a global positioning system (GPS) module configured to provide location information for the electronic wireless hand held multimedia device. The electronic wireless hand held multimedia device can also include a cartridge reader configured to transfer data with an electronic cartridge. Additionally, the third wireless transceiver module can be configured as a Bluetooth transceiver.

[0017] The electronic wireless hand held multimedia device can also include a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within visible proximity of the electronic wireless hand held multimedia device.

[0018] The electronic wireless hand held multimedia device can also include a fifth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an RFID wireless connection with

electronic devices located within visible or short range from the electronic wireless hand held multimedia device.

[0019] A video camera and video transmission capabilities can be included that enable hand held device users to capture, store, process and transmit video and take pictures.

BRIEF DESCRIPTION OF THE DRAWINGS

[0020] The novel features believed characteristic of this invention are set forth in the appended claims. The invention itself, however, as well as a preferred mode of use, further objects, and advantages thereof, will best be understood by reference to the following detailed description of an illustrative embodiment when read in conjunction with the accompanying drawings, wherein:

[0021] FIG. 1(a) illustrates a pictorial representation of an electronic wireless hand held multimedia device, which can be implemented in accordance with a preferred embodiment;

[0022] FIG. 1(b) depicts a schematic diagram illustrating exemplary hardware and software module configurations of an electronic wireless hand held multimedia device, which can be implemented in accordance with a possible embodiment;

[0023] FIG. 1(c) illustrates a block diagram of wireless transceiver modules that can be configured for use with the electronic wireless hand held multimedia device described herein, in accordance with an alternative embodiment;

[0024] FIG. 2 illustrates a pictorial representation of an electronic wireless hand held multimedia device, which can be implemented in accordance with an alternative embodiment;

[0025] FIG. 3 depicts a pictorial representation of an electronic wireless hand held multimedia device adapted for receiving a cartridge, in accordance with an alternative embodiment;

[0026] FIG. 4 illustrates a diagram depicting network attributes of wireless communications networks that can be utilized in accordance with the preferred embodiments; and

[0027] FIG. 5 illustrates a diagram of one example of a system for providing multimedia data to electronic wireless hand held multimedia device, in accordance with an alternative embodiment.

DETAILED DESCRIPTION

[0028] FIG. 1(a) illustrates a pictorial representation of an electronic wireless hand held multimedia device 11, which can be implemented in accordance with a preferred embodiment. Note that the device 11 can be referred to as a "handheld device", "hand held device" or a "wireless hand held device". Data can thus be transferred to and from the device 11. Note that as utilized herein, the term "data" as utilized herein generally refers to text, voice, graphics and/or video, but can include other types of data such as software, security codes, encryption, decryption, etc. Such data can include, for example, "multimedia data" such as video, voice, audio, etc.

[0029] In general, the electronic wireless hand held multimedia device 11 can include a touch sensitive display screen 18, a speaker 30, a microphone 31, and one or more control buttons 32 for controlling some operations of device 11. The device 11 depicted in FIG. 1(a) can be a device, such as, for example, a Personal Digital Assistant (PDA), a cellular telephone, a computing device capable of communicating with a wireless local area network, and so forth. In this respect, the device 11 can be implemented as a combined, PDA/cellular telephone with touch screen capabilities associated with the display screen 18. Display screen 18 can be configured to display data including video and text and icons 33 operable as soft buttons providing options and action by the electronic wireless hand held multimedia device 11 when selected by a user.

[0030] FIG. 1(b) depicts a schematic diagram illustrating a general hardware configuration of an electronic wireless hand held multimedia device 11, which can be implemented in

accordance with an embodiment. The diagram depicted in FIG. 1(b) illustrates a variety of hardware configurations and components/modules, which can be utilized to implement one possible embodiment of the device 11. Those skilled in the art can appreciate, however, that other hardware configurations with less or more hardware and/or modules can be utilized in carrying out the electronic wireless hand held multimedia device 11 of the present invention, as will be further described herein. Note that in FIGS. 1(a) to 5, identical or similar parts or elements are generally indicated by identical reference numerals. It can be appreciated that FIG. 1(a) to 5 may refer to the same device 11, the varying illustrations and configurations depicted in FIGS. 1(a) to 5 can represent variations or alternative embodiments of the same device 11.

[0031] The electronic wireless hand held multimedia device 11 is capable of carrying out a variety of functionalities. For example, microprocessor shown as CPU 10 of electronic wireless hand held multimedia device 11, can function as a main controller operating under the control of operating clocks supplied from a clock oscillator. CPU 10 can be configured as, for example, a microprocessor. Such a microprocessor can be configured to facilitate operation of and communications by the electronic wireless hand held multimedia device 11. External pins of CPU 10 can be coupled to an internal bus 26 so that it can be interconnected to respective components.

[0032] The electronic wireless hand held multimedia device 11 can also be configured to include, for example, SRAM 24 which can be provided as a writeable memory that does not require a refresh operation and can be generally utilized as a working area of CPU 10. SRAM (Static RAM) is generally a form of semiconductor memory (RAM) based on a logic circuit known as a flip-flop, which retains information as long as there is enough power to run the device. Font ROM 22 can be configured as a read only memory for storing character images (e.g., icons and font) displayable on a display 18, which can be implemented as, for example, a touch sensitive display screen. Examples of types of displays that can be utilized in accordance with display 18 include, for example, a TFT active matrix display, an illuminated LCD (Liquid Crystal Display), or other small-scaled displays being developed or available in the art in compact form.

[0033] CPU 10 can be utilized to drive display 18 utilizing, among other media, font images from Font ROM 22, and images transmitted as data through wireless unit 17 and processed by image-processing unit 35. EPROM 20 can be configured as a read only memory that is generally erasable under certain conditions and can be utilized for permanently storing control codes for operating respective hardware components and security data, such as a serial number. A camera capable of capturing video and pictures can be provided and can also work in conjunction with image processing unit 35.

[0034] IR controller 14 can be generally configured as a dedicated controller for processing infrared codes transmitted/received by an IR transceiver module 16 and for capturing the same as computer data. Wireless unit 17 can be generally configured as a dedicated controller and transceiver module for processing all wireless data transmitted from and to a wireless communications network, such as wireless communication network 152, which is described in greater detail herein, but not shown in FIG. 1.

[0035] Note that the radio frequency (RF) wireless transceiver modules 17 (i.e. transceiver module) can constitute more than one wireless transceiver (e.g., multiple transceivers) formed separately or combined on an ASIC or DSP circuit. For example, FIG. 1(c) illustrates a block diagram of RF wireless transceiver modules 17 configured for use with the electronic wireless hand held multimedia device 11, in accordance with an alternative embodiment, including, for example, a first transceiver module 17a, a second transceiver module 17b, a third transceiver module 17c, a fourth transceiver module 17d, and up to an "n^{th}" transceiver module, and so on.

[0036] The first wireless transceiver module 17a can be configured, for example, to support bi-directional data communications of the electronic wireless hand held multimedia device 11 with remote data resources over cellular telecommunications networks. Wireless unit/ transceiver module 17 can also include the second wireless transceiver module 17b configured to support bi-directional data communications of the electronic wireless hand held multimedia device 11 with remote data resources over a wireless local area network. Additionally, wireless transceiver module 17 can include the third wireless transceiver module 17c configured to support bi-directional data communications of the electronic

wireless hand held multimedia device 11 over a direct wireless connection with electronic devices located at short range, for example, within up to a fifty to hundred foot range from the electronic wireless hand held multimedia device 11. Additionally, wireless unit/transceiver module 17 can include the fourth wireless transceiver module 17d configured to support bi-directional data communications of the electronic wireless hand held multimedia device 11 over an Infrared wireless connection with electronic devices located at line of sight (or "visible") range, which can reasonably be within up to a fifty foot range from the electronic wireless hand held multimedia device 11. It can be appreciated that other variations for wireless transceiver module 17 can also be provided.

[0037] Port 12 can be connected to CPU 10 and can be temporarily attached, for example, to a docking station to transmit information to and from electronic wireless hand held multimedia device 11 to other devices, such as personal computers, points of sale such as retail cash registers, electronic kiosk devices, and so forth. Port 12 can also be configured, for example, to link with a modem, cradle or docking station, which is well known in the art, and can permit network devices, a personal computer or other computing devices to communicate with electronic wireless hand held multimedia device 11.

[0038] User controls can 32 permits a user to enter data to electronic wireless hand held multimedia device 11 and initiate particular processing operations via CPU 10. A user interface 33 can be linked to user controls 32 to permit a user to access and manipulate electronic wireless hand held multimedia device 11 for a particular purpose, such as, for example, viewing video images on display 18. Those skilled in the art will appreciate that user interface 33 can be implemented as a touch screen user interface, as indicated by the dashed lines linking display 18 with user interface 33. User interface 33 can be configured to accept user input into the electronic wireless hand held multimedia device 11.

[0039] In addition, CPU 10 can cause a sound generator 28 to generate sounds of predetermined frequencies from a speaker 30. Speaker 30 can be utilized to produce music and other audio information associated with video data transmitted to electronic wireless hand held multimedia device 11 from an outside source. Additionally, a GPS (Global Positioning System) module 13 can also be connected to bus 26. GPS module 13

can be configured to provide location information for the electronic wireless hand held multimedia device 11 and can operate with mapping software and resources to provide navigable directions on the display screen 18 to the user, which can be referred to as GPS mapping.

[0040] Those skilled in the art can appreciate that additional electronic circuits or the like other than, or in addition to, those illustrated in FIG. 1 can be required to construct electronic wireless hand held multimedia device 11. PDAs can be modified to (e.g., with proper authentication, filters, security codes, biometrics or the like) receive RF transmissions from at least one source (e.g., server, a wireless camera, or data from a camera transmitted wirelessly through a local data transmitter using Wi-Fi). Those skilled in the art can thus appreciate that because of the brevity of the drawings described herein, only a portion of the connections between the illustrated hardware blocks is generally depicted. In addition, those skilled in the art will appreciate that electronic wireless hand held multimedia device 11 can be implemented as a specific type of a hand held device, such as a Personal Digital Assistant (PDA), paging device, WAP-enabled mobile phone, and other associated hand held computing devices well known in the art.

[0041] Electronic wireless hand held multimedia device 11 can be configured to permit images, such as broadcasted video images or other multimedia data, to be displayed on display 18 for a user to view. Electronic wireless hand held multimedia device 11 thus includes an image-processing unit 35 for processing images transmitted as data to electronic wireless hand held multimedia device 11 through wireless unit 17. A payment module 34, can be implemented in the device 11 to enable the management of payment transactions which can be negotiated wirelessly through the device, for example, by enabling hand held device users to be billed a transaction fee via bank accounts (e.g., ATM, Debit and Credit cards) billing via communication service accounts or arrangements, and prepaid services, and other authorized account-related billing arrangements. Payment can be made directly to a wireless point of sale and/or over data networks. A security module can be provided to enable protected data retrieval and management by enabling the use of pass codes, passwords and/or biometrics and communications security during hand held device communications. A video camera and video transmission capabilities

enable user to capture, store, process and transmit video and take pictures. Payment module 34 can be linked through internal bus 26 to CPU 10. Additionally, a security module 36 can be utilized to process proper security codes to thereby ensure data (e.g., multimedia data) transferred to and from electronic wireless hand held multimedia device 11 can be secured and/or access can be permitted. Security unit 36 can be implemented as an optional feature of electronic wireless hand held multimedia device 11. Security unit 36 can also be configured with routines or subroutines that are processed by CPU 10, and which prevent wireless data from being transmitted/received from electronic wireless hand held multimedia device 11 beyond a particular frequency range, outside of a particular geographical area associated with a local wireless network, or absent authorized authorization codes (e.g., decryption).

[0042] Those skilled in the art can appreciate that although electronic wireless hand held multimedia device 11 is generally illustrated in FIG. 1, electronic wireless hand held multimedia device 11 can be implemented as a wireless application protocol (WAP), web-enabled cellular hand held device, such as a PDA, wireless telephone, or a combination thereof. Electronic wireless hand held multimedia device 11 can be configured with features of combination cellular telephone/PDA devices. Electronic wireless hand held multimedia device 11 can also permits users to access e-mail and store calendars and contact databases. Electronic wireless hand held multimedia device 11 can also be configured to include the use of multi-RF (Radio Frequency) receiver-enabled hand held television viewing device. Regardless of the type of hand held device implemented, it can be expected that such a hand held devices will be adapted to receive and process data via image-processing unit 35 for ultimate display as moving images (video) on display 18, in accordance with the present invention. Image-processing unit 35 can include image-processing routines, subroutines, software modules, and so forth, which perform image-processing operations.

[0043] FIG. 2 illustrates a pictorial representation of electronic wireless hand held multimedia device 11, which can be utilized to implement a preferred embodiment. Electronic wireless hand held multimedia device 11 includes display screen 18. Multimedia data (e.g., video, audio, graphics, etc) broadcast via radio frequency or provided digitally

and wirelessly can be displayed on display screen 18 for a user to view. User controls 32 permit a user to manipulate images or text displayed on display screen 18, such as the buttons on a keyboard provided on most Blackberry devices. A touch screen user interface can be further configured on the display screen 18 with electronic wireless hand held multimedia device 11 to permit a user to manipulate images/text displayed on display screen 18.

[0044] FIG. 3 depicts a pictorial representation of electronic wireless hand held multimedia device 11 adapted for receiving a cartridge 50, in accordance with an alternative embodiment. Electronic wireless hand held multimedia device 11 of FIG. 3 is generally analogous to electronic wireless hand held multimedia device 11 of FIG. 2, the difference being that electronic wireless hand held multimedia device 11 of FIG. 3 can be adapted to receive a cartridge bearing software and/or hardware modules (including memory) that permits electronic wireless hand held multimedia device 11 of FIG. 3 to function according to specific hardware and/or instructions contained in a memory location within cartridge 50. The alternative embodiment depicted in FIG. 3 thus represents a variation to the embodiment illustrated in FIG. 2.

[0045] Cartridge 50 can be configured as a smart card of another appropriate module. Such a smart card can provide, for example, access codes (e.g., decryption) to enable electronic wireless hand held multimedia device 11 to receive data broadcasts. Note that as utilized herein, the term "module" can refer to a physical module, such as a cartridge. The term "module" can also refer to electronics and hardware stored on a cartridge. The term "module" can also refer to a software module composed of routines or subroutines that perform a particular function. Those skilled in the art can appreciate the meaning of the term module is based on the context in which the term is utilized. Thus, cartridge 50 can be generally configured as a physical cartridge or smart card. The term "module" as utilized herein can also refer to a software module, depending on the context of the discussion thereof.

[0046] To illustrate the use of a physical module, such as module 50, assume that a user can possess several such physical modules or cartridges. One cartridge, when inserted

into hand held device FIG. 3 can instruct hand held device 11 to function as a standard PDA, such as a Palm Pilot type device. Other functions including communications, software, memory and supplemental circuitry can be provided using a cartridge that can be inserted within and removed from the electronic wireless hand held multimedia device 11.

[0047] Those skilled in the art can thus appreciate that electronic wireless hand held multimedia device 11 can be adapted to receive and cooperate with cartridge 50. Additionally, electronic wireless hand held multimedia device 11 includes display screen 18, which is similar to display unit 18 of FIG. 1. Electronic wireless hand held multimedia device 11 depicted in FIG. 3 can also include user controls 32. Thus, electronic wireless hand held multimedia device 11 can also implement touch screen capabilities through a touch screen user interface integrated with display screen 18.

[0048] Assuming cartridge 50 is implemented as a smart card, it is anticipated that similar features can be implemented in accordance with the smart card to insure that hand held device 11 includes touch screen user interface 18 and video viewing capabilities. Smart cards are generally known in the art as credit-card sized plastic cards with an embedded computer chip. The chip can either be a microprocessor with internal memory or a memory chip with non-programmable logic. The chip connection can be configured via direct physical contact or remotely through a contactless electromagnetic interface.

[0049] Smart cards can be generally configured as either a contact or contactless smart card, or a combination thereof. A contact smart card requires insertion into a smart card reader (e.g., contained within hand held device 56) with a direct connection to, for example, a conductive micromodule on the surface of the card. Such a micromodule can be generally gold plated. Transmission of commands, data, and card status takes place through such physical contact points.

[0050] A contactless card requires only close proximity to a reader. Both the reader and the card can be implemented with antenna means providing a contactless link that permits the devices to communicate with one another. Contactless cards can also maintain internal chip power or an electromagnetic signal (e.g., RF tagging technology). Two additional

categories of smart codes, well known in the art, which are based on contact and contactless cards are the so-called *Combi* cards and *Hybrid* cards.

[0051] A *Hybrid* card generally can be equipped with two chips, each with a respective contact and contactless interface. The two chips are not connected, but for many applications, this Hybrid serves the needs of consumers and card issuers. The *Combi* card can be generally based on a single chip and can be generally configured with both a contact and contactless interface.

[0052] Chips utilized in such smart cards are generally based on microprocessor chips or memory chips. Smart cards based on memory chips depend on the security of the card reader for their processing and can be utilized when low to medium security requirements. A microprocessor chip can add, delete and otherwise manipulate information in its memory. Microprocessor-based memory cards typically contain microprocessor chips with a variety of architectures.

[0053] The electronic wireless hand held multimedia device 11 of FIGS. 1-3 can be configured as a hand held device adapted for use with a cartridge/module, such as module 50. The cartridge/module 50 can contain the electronics (e.g., tuner, filter, etc.) to allow a hand held device to be adapted for receiving multimedia data. Electronic wireless hand held multimedia device 11 includes a display screen 18 for the display of multimedia data. Additionally, display screen 18 of electronic wireless hand held multimedia device 11 can be configured with a touch screen user interface displayable and operable on display screen 18. Display screen 18 can include one or more touch screen areas.

[0054] Those skilled in the art can appreciate that a variety of possible wireless communications and networking configurations can be utilized to implement wireless network 152, as shown in FIG. 4. Wireless network 152 can be, for example, implemented according to a variety of wireless protocols, including cellular, *Bluetooth*, and RF or direct IR communications. Wireless network 152 can be implemented as a single network type (e.g., *Bluetooth*) or a network based on a combination of network types (e.g., GSM, CDMA, etc).

[0055] Wireless network 152 can be configured with teachings/aspects of CDPD (Cellular Digital Packet Data) networks well known in the networking arts. CDPD network 154 is illustrated in FIG. 4. CDPD can be configured as a TCP/IP based technology that supports Point-to-Point (PPP) or Serial Line Internet Protocol (SLIP) wireless connections to mobile devices, such as the hand held devices described and illustrated herein. Cellular service is generally available throughout the world from major service providers. Data can be transferred utilizing CDPD protocols.

[0056] Current restrictions of CDPD are not meant to limit the range or implementation of the method and system described herein, but are described herein for illustrative purposes only. It is anticipated that CDPD will be continually developed, and that such new developments can be implemented in accordance with the present invention.

[0057] Wireless network 152 can preferably be also configured with teachings/aspects of a Personal Area Network 156 or *Bluetooth*, as described herein. *Bluetooth* was adopted by a consortium of wireless equipment manufacturers referred to at the Bluetooth Special Interest Group (BSIG), and has emerged as a global standard for low cost wireless data and voice communication. Current specifications for this standard call for a 2.4 GHz ISM frequency band. *Bluetooth* technology is generally based on a short-range radio transmitter/receiver built into small application specific circuits (ASICS, DSPs) and embeddad into support devices, such as the hand held devices described and illustrated herein. It should be appreciated that all the wireless transceiver modules and capabilities described herein can be built into small application specific circuits (ASICS, DSPs) and embedded into support devices, such as the hand held devices described and illustrated herein.

[0058] The *Bluetooth* standard permits up to 100 mw of power, which can increase the range to 100 M. In addition, *Bluetooth* can support several data channels. Utilizing short data packets and frequency hopping of up to 1600 hops per second, *Bluetooth* is a wireless technology that can be utilized to enable the implementation of the methods and systems described herein. Current restrictions of *Bluetooth* are not meant to limit the range

or implementation of the present invention, but are described herein for illustrative purposes only. It is anticipated *Bluetooth* will be continually developed, and that such new developments can be implemented in accordance with the present invention.

[0059] Wireless network 152 can also be configured utilizing teachings/aspects of GSM network 158. GSM (Global System for Mobile Communication) and PCS (Personal Communications Systems) networks, both well known in the telecommunications arts, generally operate in the 800 MHz, 900 MHz, and 1900 MHz range. PCS initiates narrowband digital communications in the 900 MHz range for paging, and broadband digital communications in the 1900 MHz band for cellular telephone service. In the United States, PCS 1900 is generally equivalent to GSM 1900. GSM operates in the 900 MHz, 1800-1900 MHz frequency bands, while GSM 1800 is widely utilized throughout Europe and many other parts of the world.

[0060] In the United States, GSM 1900 is generally equivalent to PCS 1900, thereby enabling the compatibility of these two types of networks. Current restrictions of GSM and PCS are not meant to limit the range or implementation of the present invention, but are described herein for illustrative purposes only. It is anticipated that GSM and PCS will be continually developed, and that aspects of such new developments can be implemented in accordance with the present invention.

[0061] Wireless network 152 can also be, for example, a wireless LAN (Local Area Network). In other embodiments or implementations, wireless network 152 can also utilize teachings/aspects of GPRS network 160. GPRS technology, well-known in the telecommunications arts, bridges the gap between current wireless technologies and the so-called "next generation" of wireless technologies referred to frequently as the third-generation or 3G wireless technologies. GPRS is generally implemented as a packet-data transmission network that can provide data transfer rates up to 115Kbps. GPRS can be implemented with CDMA and TDMA technology and supports X.25 and IP communications protocols, all well known in the telecommunications arts. GPRS also enables features, such as Voice over IP (VoIP) and multimedia services. Current restrictions of GPRS are not meant to limit the range or implementation of the present invention, but are described

herein for illustrative purposes only. It is anticipated that GPRS will be continually developed and that such new developments can be implemented in accordance with the present invention.

[0062] Wireless network 152 can also be implemented utilizing teaching/aspects of a CDMA network 162 or CDMA networks. CDMA (Code Division Multiple Access) is a protocol standard based on IS-95 CDMA, also referred to frequently in the telecommunications arts as CDMA-1. IS-95 CDMA is generally configured as a digital wireless network that defines how a single channel can be segmented into multiple channels utilizing a pseudo-random signal (or code) to identify information associated with each user. Because CDMA networks spread each call over more than 4.4 trillion channels across the entire frequency band, it is much more immune to interference than most other wireless networks and generally can support more users per channel.

[0063] CDMA can support data. Wireless network 152 can be configured with a form of CDMA technology known as wideband CDMA (W-CDMA). Wideband CDMA can be also referred to as CDMA 2000 in North America. W-CDMA can be utilized to increase transfer rates utilizing multiple 1.25 MHz cellular channels. Current restrictions of CDMA and W-CDMA are not meant to limit the range or implementation of the present invention, but are described herein for illustrative purposes only. It is anticipated that CDMA and W-CDMA will be continually developed and that such new developments can be implemented in accordance with the present invention.

[0064] Wireless network 152 can be also implemented utilizing teachings/aspects of a 3G wireless communications network 164. As a result of increased competition and the ongoing convergence of voice and data networks, new solutions and services are becoming available in the wired and wireless communications fields. Third Generation communications technology (also referred to in the art as 3G or IMT-2000), for example, is currently expected to bring wireless communication users the next generation of wireless technology. 3G is characterized by high-speed, high-bandwidth services that will support a wide variety of wireless applications, including wireline quality voice and high-resolution video. 3G is an initiative of the International Telecommunication Union (ITU) that seeks to

integrate the various satellite, terrestrial, fixed and mobile systems currently deployed and being developed under a single standard or family of standards to promote global communication service capabilities and interoperability.

[0065] Wireless network 152 can also be configured utilizing teachings/aspects of TDMA networks 166. TDMA (Time Division Multiple Access) is a telecommunications network utilized to separate multiple conversation transmissions over a finite frequency allocation of through-the-air bandwidth. TDMA can be utilized in accordance with the present invention to allocate a discrete amount of frequency bandwidth to each user in a TDMA network to permit many simultaneous conversations or transmission of data. Each user can be assigned a specific timeslot for transmission. A digital cellular communications system that utilizes TDMA typically assigns 10 timeslots for each frequency channel.

[0066] A hand held device operating in association with a TDMA network sends bursts or packets of information during each timeslot. Such packets of information are then reassembled by the receiving equipment into the original voice or data/information components. Current restrictions of such TDMA networks are not meant to limit the range or implementation of the present invention, but are described herein for illustrative purposes only. It is anticipated that TDMA networks will be continually developed and that such new developments can be implemented in accordance with the present invention.

[0067] Wireless network 152 can also be configured utilizing teachings/aspects of Wireless Intelligent Networks (WINs) 168. WINs are generally known as the architecture of the wireless switched network that allows carriers to provide enhanced and customized services for mobile telephones. Intelligent wireless networks generally include the use of mobile switching centers (MSCs) having access to network servers and databases such as Home Location Registers (HLRs) and Visiting Location Registers (VLRs), for providing applications and data to networks, service providers and service subscribers (wireless device users).

[0068] Local number portability allows wireless subscribers to make and receive calls anywhere - regardless of their local calling area. Roaming subscribers are also able to

receive more services, such as call waiting, three-way calling and call forwarding. A HLR is generally a database that contains semi-permanent mobile subscriber (wireless device user) information for wireless carriers' entire subscriber base.

[0069] A useful aspect of WINs for the present invention is enabling the maintenance and use of customer profiles within an HLR/VLR-type database. Profile information can be utilized for example with season ticket holders and/or fans of traveling teams or shows. HLR subscriber information as used in WINs includes identity, service subscription information, location information (the identity of the currently serving VLR to enable routing of communications), service restrictions and supplementary services/information. HLRs handle SS7 transactions in cooperation with Mobile Switching Centers and VLR nodes, which request information from the HLR or update the information contained within the HLR. The HLR also initiates transactions with VLRs to complete incoming calls and update subscriber data. Traditional wireless network design is generally based on the utilization of a single HLR for each wireless network, but growth considerations are prompting carriers to consider multiple HLR topologies.

[0070] The VLR can be also configured as a database that contains temporary information concerning the mobile subscribers currently located in a given MSC serving area, but whose HLR can be elsewhere. When a mobile subscriber roams away from the HLR location into a remote location, SS7 messages are used to obtain information about the subscriber from the HLR, and to create a temporary record for the subscriber in the VLR.

[0071] Signaling System No. 7 (referred to as SS7 or C7) is a global standard for telecommunications. In the past the SS7 standard has defined the procedures and protocol by which network elements in the public switched telephone network (PSTN) exchange information over a digital signaling network to affect wireless and wireline call setup, routing, control, services, enhanced features and secure communications. Such systems and standards can be utilized to implement wireless network 152 in support of wireless customers, in accordance with the present invention.

[0072] Improved operating systems and protocols allow a Graphical User Interfaces (GUI) to provide an environment that displays user options (e.g., graphical symbols, icons or photographs) on the display screen 18 of the electronic wireless hand held multimedia device 11. Extensible Markup Language ("XML") is a standard that is available that performs as a universal language for data, making documents more interchangeable. XML allows information to be used in a variety of formats for different devices, including PCs, PDAs and web-enabled mobile phones.

[0073] XML enables documents to be exchanged even where the documents were created and/or are generally used by different software applications. XML can effectively enable one system to translate what another system sends. As a result of data transfer improvements, wireless device GUIs can be utilized in accordance with a hand held device and wireless network 152, whether configured as a paging network or another network type, to render images on the hand held device that closely represent the imaging capabilities available on desktop computing devices.

[0074] FIG. 5 illustrates a diagram of a system 150 providing multimedia data to electronic wireless hand held multimedia device wherein the multimedia data is received and processed for display, in accordance with the embodiments. Note that in FIGS. 1-5, identical or similar parts or elements are generally indicated by identical reference numerals. Multimedia data can be created or captured, for example, as shown in Figure 5 by a video camera 114, from live activity 130, such as a concert 138 or private activities 140. The multimedia data can be stored on a server 112 as data wherefrom it can be retrieved through a data network 152 by the wireless handheld device 11. The data network 152 can include a wireless network as described herein before such as a cellular data network, 802.11 networks, or another type of data transmissions such as indicated in FIG. 4. Data network 152 can include, for example, the use of a gateway configured as an access point for a wireless LAN (Local Area Network). Access points for wireless LAN networks and associated wired and wireless hardware (e.g., servers, routers, gateways, etc.) can be utilized in accordance with the present invention described herein. In the example depicted in FIG. 5, an electronic wireless hand held device user can desire to obtain multimedia data (e.g., video, audio, etc) being broadcast from a multimedia data

source 130, for example, a live entertainment venue shown as an example remote data source 130 in FIG. 5, which can be concert hall or sports stadium.

[0075] Hand held device 11 can be configured to communicate with and receive transmissions from remote data sources 112 over data networks 152 based on device identification (e.g., device address). Communication with hand held devices, such as hand held device 11, however, can also be achieved through RF (Radio Frequency) broadcasts, thereby not requiring two-way communication and authentication between, for example, a wireless LAN network and such hand held devices. A broadcast under such a scenario can also require that such a hand held device or hand held devices possess decryption capabilities or the like in order to be authorized to receive transmissions from a remote data resource. More than one wireless transceiver module 17, as explained previously, are integrated within hand held device 11 to enable access to multimedia data over various wireless communications means.

[0076] In one aspect of the scenario depicted in FIG. 5, a live activity instead of recorded media can be accessed and viewed using an electronic wireless hand held multimedia device 11. In a live scenario, one or more video cameras 114 can be positioned at a live entertainment venue as the data resource 130 at locations that capture images not only of the events taking place on a concert stage, but also events taking place within the venue itself. For example, if an audience member 140 happens to be walking along a stadium aisle within view of video camera 114, the audience member's video image can be captured and displayed as video image 144 within display screen 18 of hand held device 11, as indicated at Time 1. Likewise, video camera 114 can capture images of band member 138 whose video image can be displayed as video image 142 within a display area of display screen 18, as indicated at Time 1. Thus, a user of hand held device 11 can view not only the events taking place on a central performing platform of venue, but also other events within the arena itself. The user of device 11 can be located within a venue or many miles, perhaps, thousands of miles away, from a venue. The band member 138 can be located on a central performing platform (not shown) of a multimedia data source 130 in the form of a venue when video camera 114 captures video of band member 138. The user can also, for example, wish to see a close-up of audience member 140. By activating

user controls and/or a touch screen interface integrated with display screen 18, the user can, for example, pan or zoom to view a close-up video shot of audience member 140, as indicated at Time 2. Captured video images can be transferred from video camera 114 as video data to hardware 112 such as a server. From the server 112, video can be accessed and transferred over the wireless network 152 to the device 11.

[0077] The embodiments and examples set forth herein are presented in order to best explain the present invention and its practical application and to thereby enable those skilled in the art to make and utilize the invention. However, those skilled in the art will recognize that the foregoing description and examples have been presented for the purpose of illustration and example only. The description as set forth is not intended to be exhaustive or to limit the invention to the precise form disclosed. Many modifications and variations are possible in light of the above teaching without departing from the spirit and scope of the following claims.

CLAIMS

What is claimed is:

1. An electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks;

a second wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks;

a third wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over a direct wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a display screen configured to display data including video and text received by the electronic wireless hand held multimedia device;

a user interface configured to accept user input into the electronic wireless hand held multimedia device; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

2. The electronic wireless hand held multimedia device of claim 1, further comprising a global positioning module configured to provide location information for the electronic wireless hand held multimedia device.

3. The electronic wireless hand held multimedia device of claim 1, further comprising a cartridge reader configured to transfer data with an electronic cartridge.

4. The electronic wireless hand held multimedia device of claim 1, wherein the third wireless transceiver module is a Bluetooth transceiver.

5. The electronic wireless hand held multimedia device of claim 1, further comprising a

mobile payment module enabling mobile payments via a variety of billing arrangements.

6. The electronic wireless hand held multimedia device of claim 1, further comprising a security module enabling protected data management and communications security.

7. The electronic wireless hand held multimedia device of claim 1, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

8. The electronic wireless hand held multimedia device of claim 1, further comprising a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

9. An electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks;

a second wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks;

a third wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over a direct wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

10. The electronic wireless hand held multimedia device of claim 9, further comprising a global positioning module configured to provide location information for the electronic wireless hand held multimedia device.

11. The electronic wireless hand held multimedia device of claim 9, further comprising a cartridge reader configured to transfer data with an electronic cartridge.

12. The electronic wireless hand held multimedia device of claim 9, wherein the third wireless transceiver module is a Bluetooth transceiver.

13. The electronic wireless hand held multimedia device of claim 9, further comprising a fourth wireless module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

14. The electronic wireless hand held multimedia device of claim 9, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

15. The electronic wireless hand held multimedia device of claim 9, further comprising a security module enabling protected data management and communications security.

16. The electronic wireless hand held multimedia device of claim 9, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

17. An electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications with remote data resources over cellular telecommunications networks;

a second wireless transceiver module configured to support bi-directional data communications with remote data resources over wireless local area networks;

a third wireless transceiver module configured to support bi-directional data communications over a Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a global positioning module configured to provide device location information; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

18. The electronic wireless hand held multimedia device of claim 17, further comprising a cartridge reader configured to transfer data with an electronic cartridge.

19. The electronic wireless hand held multimedia device of claim 17, further comprising a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

20. The electronic wireless hand held multimedia device of claim 17, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

21. The electronic wireless hand held multimedia device of claim 17, further comprising a security module enabling protected data management and communications security.

22. The electronic wireless hand held multimedia device of claim 17, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

23. An electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications with remote data resources over cellular telecommunications networks;

a second wireless transceiver module configured to support bi-directional data communications with remote data resources over wireless local area networks;

a third wireless transceiver module configured to support bi-directional data communications over a Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a cartridge reader configured to transfer data with an electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

24. The electronic wireless hand held multimedia device of claim 23, further comprising a global positioning module configured to provide device location information.

25. The electronic wireless hand held multimedia device of claim 23, further comprising a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

26. The electronic wireless hand held multimedia device of claim 23, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

27. The electronic wireless hand held multimedia device of claim 23, further comprising a security module enabling protected data management and communications security.

28. The electronic wireless hand held multimedia device of claim 23, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

29. An electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks;

a second wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks;

a third wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over a Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a global positioning module configured to provide device location information;

a cartridge reader configured to receive and communicate with a electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

30. The electronic wireless hand held multimedia device of claim 29, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

31. The electronic wireless hand held multimedia device of claim 29, further comprising a security module enabling protected data management and communications security.

32. The electronic wireless hand held multimedia device of claim 29, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

33. The electronic wireless hand held multimedia device of claim 29, further comprising a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared

wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device.

34. An electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks;

a second wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks;

a third wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over a Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a cartridge reader configured to receive and communicate with a electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

35. The electronic wireless hand held multimedia device of claim 34, further comprising a global positioning module configured to provide location information for the electronic wireless hand held multimedia device.

36. An electronic wireless hand held multimedia device, comprising:

a first wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over cellular telecommunications networks;

a second wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device with remote data resources over wireless local area networks;

a third wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over a Bluetooth wireless connection with electronic devices located within short range from the electronic wireless hand held multimedia device;

a fourth wireless transceiver module configured to support bi-directional data communications of the electronic wireless hand held multimedia device over an Infrared wireless connection with electronic devices located within line of sight from the electronic wireless hand held multimedia device;

a touch sensitive display screen configured to display data including video and text and to accept user input;

a global positioning module configured to provide location information for the electronic wireless hand held multimedia device;

a cartridge reader configured to receive and communicate with a electronic cartridge; and

a microprocessor configured to facilitate operation of and communications by the electronic wireless hand held multimedia device.

37. The electronic wireless hand held multimedia device of claim 36, further comprising a mobile payment module enabling mobile payments via a variety of billing arrangements.

38. The electronic wireless hand held multimedia device of claim 36, further comprising a security module enabling protected data management and communications security.

39. The electronic wireless hand held multimedia device of claim 36, further comprising a video camera enabling the capture, storage, processing and transmission of video and pictures.

ABSTRACT

An electronic wireless hand held multimedia device includes a microprocessor and more than one wireless transceiver modules enabling wireless communications over a variety of standards, including Cellular (e.g., GSM, CDMA, GPRS, 3G), 802.11 (e.g., WLAN), and short range (e.g., Bluetooth, infrared, RFID), for the retrieval, processing and delivery of multimedia data to/from remote data resources (e.g., Internet, servers). The hand held device can include any of: a touch sensitive display screen configured to display multimedia data including video, text and GPS maps, and accept user input; a cartridge reader configured to exchange data with an electronic cartridge; a GPS module configured to operate with mapping resources and provide location information and GPS mapping; a mobile payment module enabling mobile payments via a variety of billing arrangements; a security module enabling protected data management and communications security; a video camera enabling the capture, storage, processing and transmission of video and pictures.

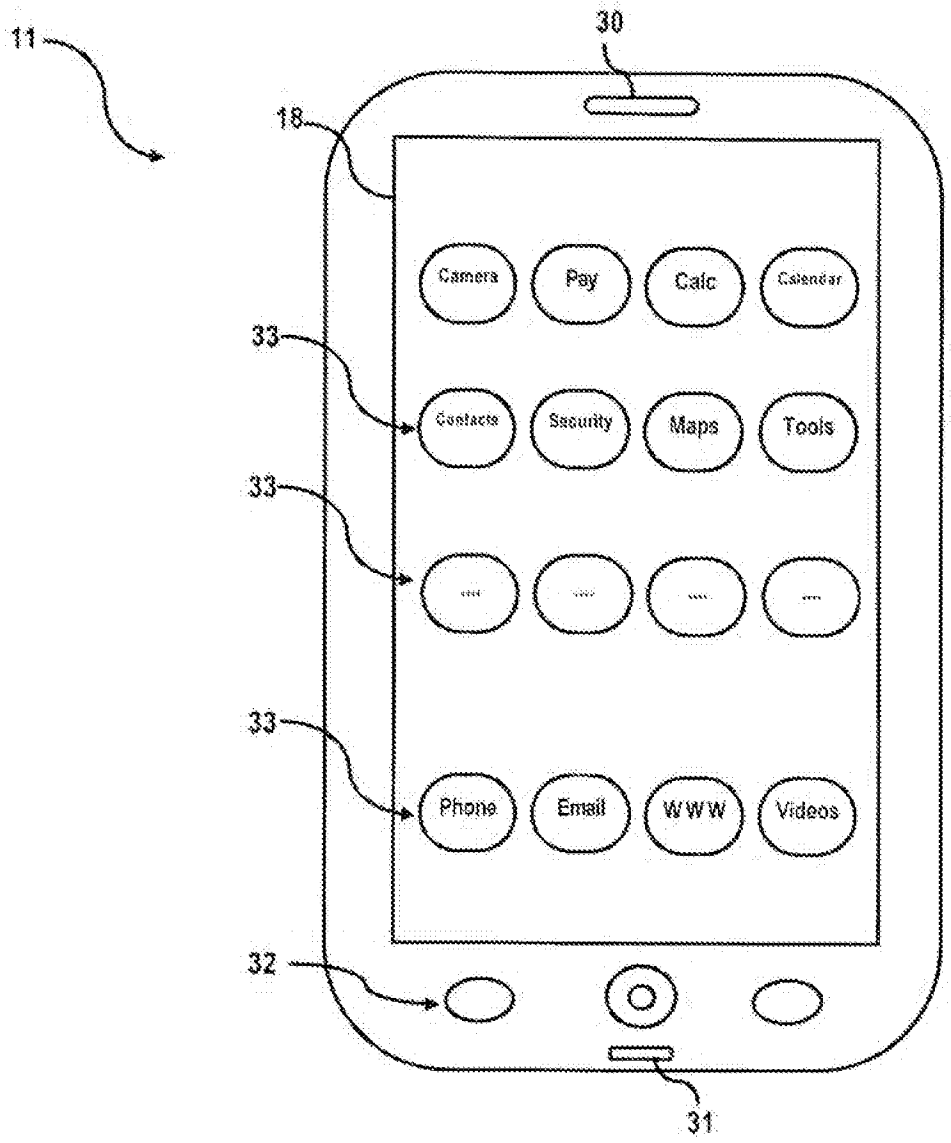
11
30
18
Camera
Pay
Calc
Calendar
33
Contacts
Security
Maps
Tools
33
33
Phone
Email
WWW
Videos
32
31

FIG. 1(a)

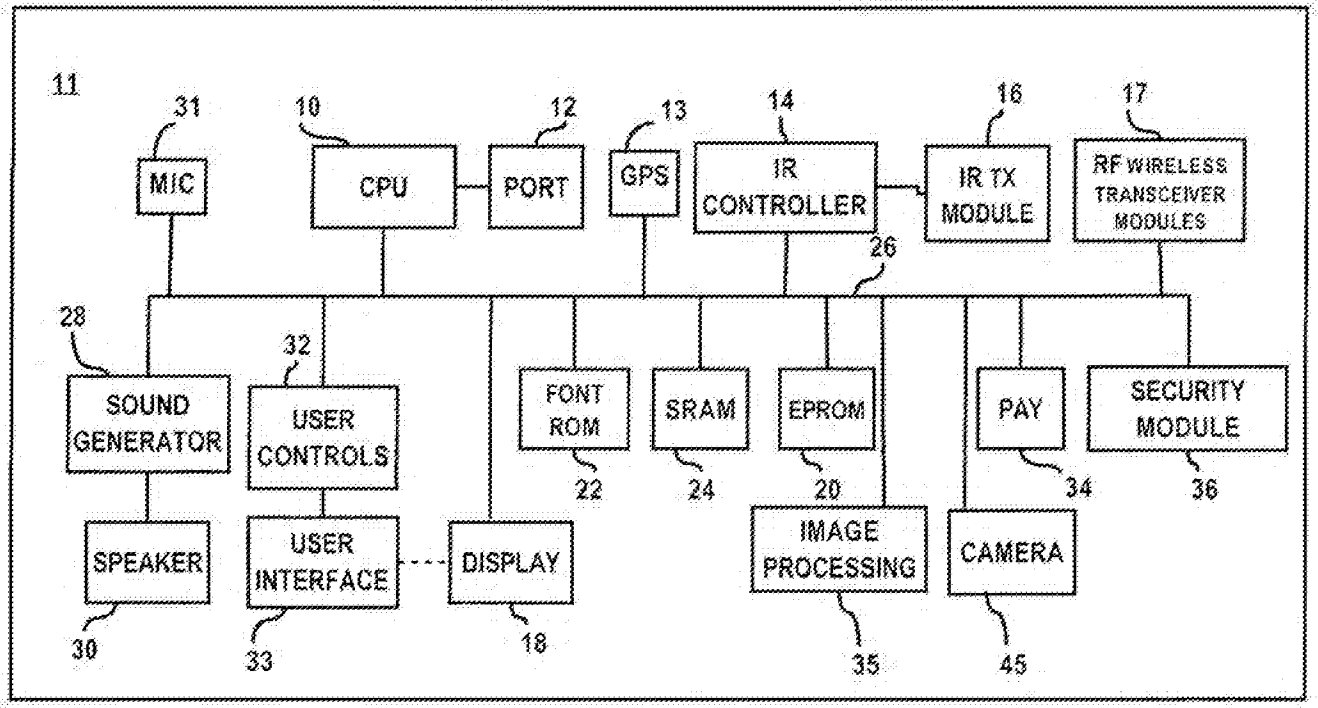
11
31
MIC
10
CPU
12
PORT
13
GPS
14
IR CONTROLLER
16
IR TX MODULE
17
RF WIRELESS TRANSCEIVER MODULES
26
28
SOUND GENERATOR
32
USER CONTROLS
FONT ROM
22
SRAM
24
EPROM
20
PAY
34
SECURITY MODULE
36
SPEAKER
30
USER INTERFACE
33
DISPLAY
18
IMAGE PROCESSING
35
CAMERA
45

FIG. 1(b)

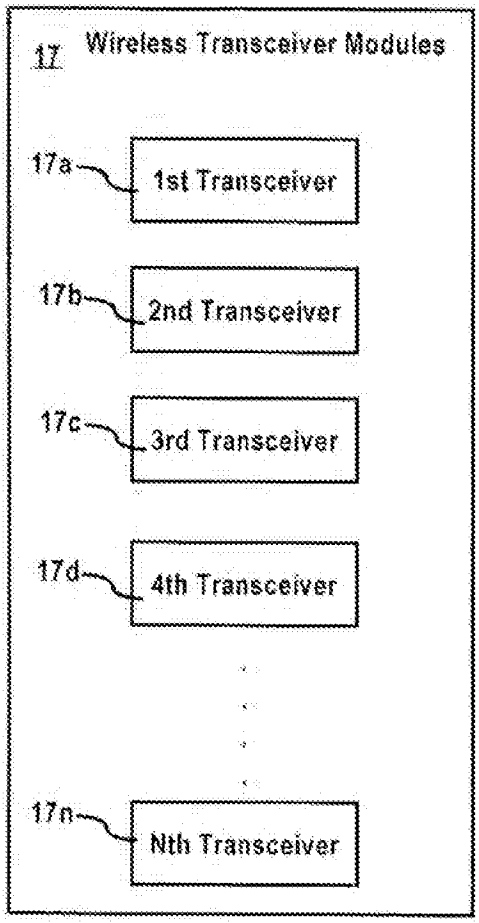
17 Wireless Transceiver Modules
17a
1st Transceiver
17b
2nd Transceiver
17c
3rd Transceiver
17d
4th Transceiver
17n
Nth Transceiver

FIG. 1(c)

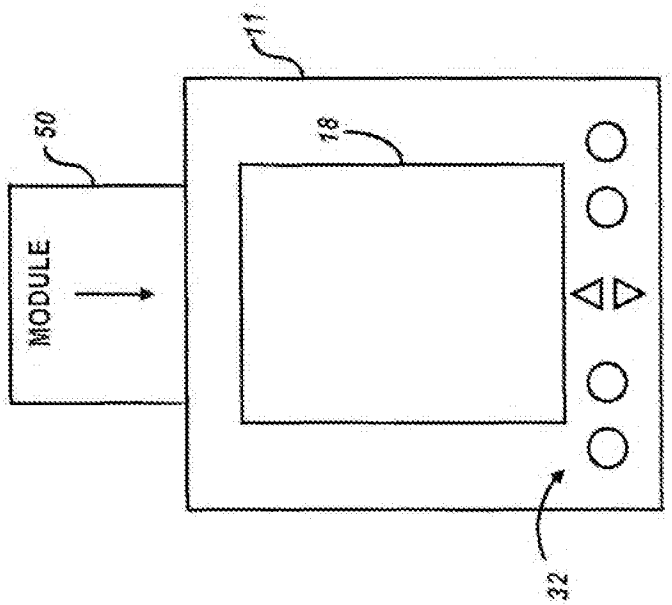

FIG. 3

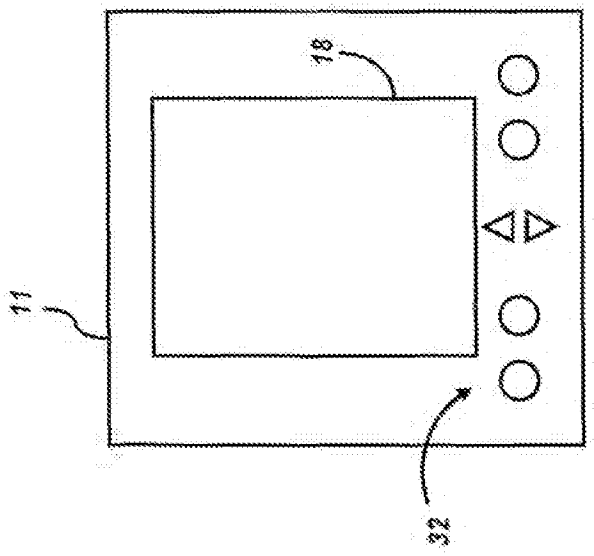

FIG. 2

FIG. 4

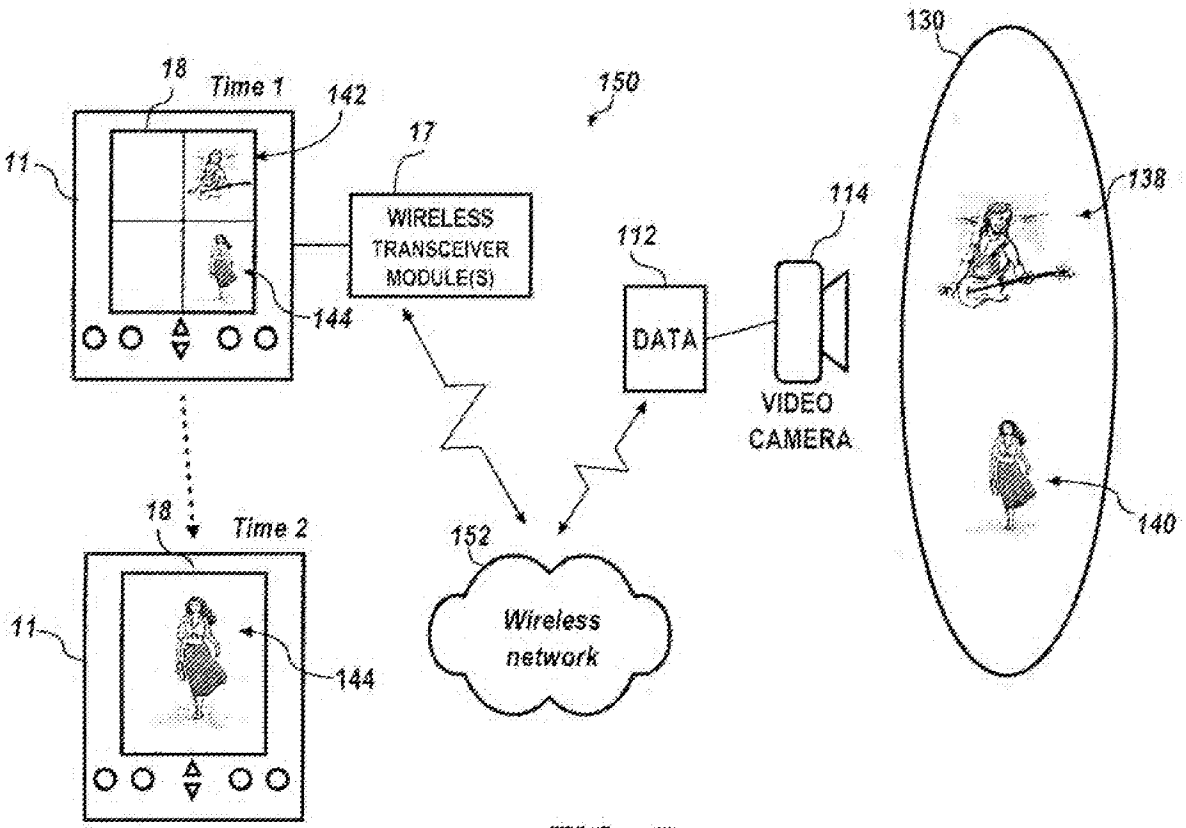
18
Time 1
142
150
17
11
WIRELESS
TRANSCEIVER
MODULE(S)
144
112
114
DATA
VIDEO
CAMERA
130
138
18
Time 2
152
Wireless
network
11
144
140

FIG. 5

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE
First Named Inventor/Applicant Name:	Luis M. Ortiz
Filer:	Luis Melisendro Ortiz/Yvonne Lopez
Attorney Docket Number:	1000-2396

Filed as Small Entity

Utility under 35 USC 111(a) Filing Fees

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Utility filing Fee (Electronic filing)	4011	1	82	82
Utility Search Fee	2111	1	270	270
Utility Examination Fee	2311	1	110	110
Pages:				
Claims:				
Claims in excess of 20	2202	19	26	494
Independent claims in excess of 3	2201	4	110	440
Miscellaneous-Filing:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		1396

Electronic Acknowledgement Receipt	
EFS ID:	4167942
Application Number:	12257205
International Application Number:	
Confirmation Number:	8613
Title of Invention:	ELECTRONIC WIRELESS HAND HELD MULTIMEDIA DEVICE
First Named Inventor/Applicant Name:	Luis M. Ortiz
Correspondence Address:	Ortiz and Lopez, PLLC - P.O. Box 4484 - Albuquerque NM 87196 US 5053141319 -
Filer:	Luis Melisendro Ortiz/Yvonne Lopez
Filer Authorized By:	Luis Melisendro Ortiz
Attorney Docket Number:	1000-2296
Receipt Date:	23-OCT-2008
Filing Date:	
Time Stamp:	18:19:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	$1396

RAM confirmation Number	5121
Deposit Account	504516
Authorized User	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal of New Application	1000-2296_Transmittal.pdf	81449	no	2
Warnings:					
Information:					
2	Oath or Declaration filed	1000-2296_Declaration.pdf	76873	no	4
Warnings:					
Information:					
3	Information Disclosure Statement Letter	1000-2296_IDS.pdf	108682	no	3
Warnings:					
Information:					
4	Foreign Reference	1000-2296_WO00004732A1.pdf	531721	no	14
Warnings:					
Information:					
5		1000-2296_FinalApplication.pdf	1329899	yes	33

Multipart Description/PDF files in .zip description

Document Description	Start	End
Specification	1	24
Claims	25	32
Abstract	33	33

Warnings:					
Information:					
6	Drawings-only black and white line drawings	1000-2296_FinalFigs.pdf	71130	no	6
Warnings:					

Information:					
7	Fee Worksheet (PTO-06)	fee-info.pdf	38102	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	2237856		

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

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If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/06 (12-04)

Filing Date: 10/23/08

Approved for use through 7/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 12/257,205

APPLICATION AS FILED – PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY FEE ($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	82		N/A	
SEARCH FEE (37 CFR 1.16(k), (l), or (m))	N/A	N/A	N/A	270		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	110		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	39 minus 20 =	19	x$26	494	OR	x$52	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	7 minus 3 =	* 4	x$110	440		x$220	
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $270 ($135 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR						
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))			195			390	
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	1396		TOTAL	

APPLICATION AS AMENDED – PART II

AMENDMENT A	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE ($)	SMALL ENTITY ADDITIONAL FEE ($)	OR	OTHER THAN SMALL ENTITY RATE ($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
Application Size Fee (37 CFR 1.16(s))									
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					N/A		OR	N/A	
					TOTAL ADD'T FEE		OR	TOTAL ADD'T FEE	

AMENDMENT B	(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE ($)	ADDITIONAL FEE ($)	OR	RATE ($)	ADDITIONAL FEE ($)
Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
Application Size Fee (37 CFR 1.16(s))									
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))					N/A		OR	N/A	
					TOTAL ADD'T FEE		OR	TOTAL ADD'T FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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