



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
17.10.2012 Bulletin 2012/42

(51) Int Cl.:
H04H 20/62 (2008.01)

(43) Date of publication A2:
05.09.2012 Bulletin 2012/36

(21) Application number: **12001258.8**

(22) Date of filing: **27.02.2012**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME

(71) Applicant: **PASER S.R.L.**
14019 Villanova d'Asti (AT) (IT)

(72) Inventor: **Pedrazzi, Franco**
14019 Villanova d'Asti (IT)

(74) Representative: **Garavelli, Paolo**
A.BRE.MAR. S.R.L.
Via Servais 27
10146 Torino (IT)

(30) Priority: **02.03.2011 IT AT20110001**

(54) **DAB-FM electronic unit for receiving audio data as a Digital Audio Broadcasting (DAB) signal and remodulating this audio data as an FM broadcast signal**

(57) A DAB-FM electronic unit (1) is described, adapted to acquire audio data in Digital Audio Broadcasting, DAB, so that they can be re-converted into standard audio data in stereo Frequency Modulation, FM, radio-broadcasting; this unit (1) comprises: a receiver (DAB Rec) of DAB audio data; a micro-controller (M) capable of managing an internal processor for performing a radio DAB digital radio/stereo FM conversion; a modulator (FM

M) of audio data in stereo FM radio-broadcasting, capable of modulating said data, converting them and transmitting them through an audio system on a vehicle by means of a OEM or aftermarket car radio; and a device (SW) for managing the unit (1) through OEM or aftermarket controls (2) on a steering wheel of the vehicle; this electronic unit (1) is embedded into the system for managing and controlling the vehicle.

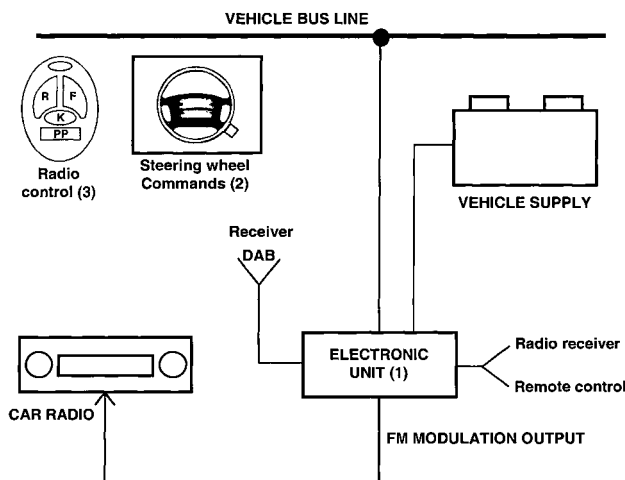


FIG. 1



EUROPEAN SEARCH REPORT

Application Number
EP 12 00 1258

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2009/010448 A1 (VOTO ROBERT M [US] ET AL) 8 January 2009 (2009-01-08) * paragraphs [0007] - [0009], [0015], [0017], [0018], [0020], [0022] - [0024], [0027], [0028], [0032], [0034], [0035], [0046], [0047]; claims 1,2,4,7- 9,13, 15,16 *	1,2	INV. H04H20/62
A	EP 1 571 766 A2 (PACE MICRO TECH PLC [GB] PACE PLC [GB]) 7 September 2005 (2005-09-07) * paragraphs [0015], [0016], [0030] *	2	
A	WO 2005/086394 A1 (KONINKL PHILIPS ELECTRONICS NV [NL]; ULLMANN PAUL [AT]) 15 September 2005 (2005-09-15) * page 6, line 8 - line 14 * * page 9, line 3 - line 11 * * page 9, line 22 - line 24 * * page 10, line 6 - line 12; claim 12 * * page 7, line 10 - line 28 *	1,2	
A	US 2008/214101 A1 (VOTO ROBERT M [US]) 4 September 2008 (2008-09-04) * paragraphs [0008], [0010], [0020], [0021], [0022], [0025], [0026], [0030], [0031]; claims 1, 5, 10, 18 *	1	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 5 September 2012	Examiner De Haan, Aldert
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

1
EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 12 00 1258

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

05-09-2012

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2009010448	A1	08-01-2009	US 2008214101 A1	04-09-2008
			US 2009010448 A1	08-01-2009

EP 1571766	A2	07-09-2005	EP 1571766 A2	07-09-2005
			US 2005197083 A1	08-09-2005

WO 2005086394	A1	15-09-2005	CN 1922807 A	28-02-2007
			EP 1721399 A1	15-11-2006
			JP 2007523578 A	16-08-2007
			US 2008212785 A1	04-09-2008
			WO 2005086394 A1	15-09-2005

US 2008214101	A1	04-09-2008	US 2008214101 A1	04-09-2008
			US 2009010448 A1	08-01-2009
