

(19)



(11)

EP 1 918 907 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
16.04.2014 Bulletin 2014/16

(51) Int Cl.:
G10K 11/178^(2006.01)

(43) Date of publication A2:
07.05.2008 Bulletin 2008/19

(21) Application number: **07113776.4**

(22) Date of filing: **03.08.2007**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE
SI SK TR**
Designated Extension States:
AL BA HR MK RS

(30) Priority: **31.10.2006 IT MI20062099**

(71) Applicant: **Esion S.r.l.**
23900 Lecco (IT)

(72) Inventor: **Del Duca, Lindoro**
23900, Lecco (IT)

(74) Representative: **Tansini, Elio Fabrizio et al**
BUGNION S.p.A.
Viale Lancetti 17
20158 Milano (IT)

(54) **Apparatus for noise active control**

(57) An apparatus for noise active control comprising: a main input (10) for receiving a main signal (11) representative of the acoustic noise present in a predetermined area; a digital signal processor DSP (20) operatively associated with at least said main input (10) for generating, as a function of said main signal (11), a secondary signal (12) for erasure (removal) of said noise; an output (30) operatively associated with said DSP (20) for sending said secondary signal (12) to an electroa-

coustic transducer (2) to convert said secondary signal (12) into an acoustic signal for removal of said noise. The apparatus (1) further comprises an electrically rewritable and non-volatile memory E-EPROM (50) operatively associated with said DSP (20) for storing an operating program and one or more operating parameters depending on which said secondary signal (12) is generated.

EP 1 918 907 A3



EUROPEAN SEARCH REPORT

Application Number
EP 07 11 3776

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 6 137 886 A (SHOURESHI RAHMAT A [US]) 24 October 2000 (2000-10-24) * column 7, line 55 - line 57 * * column 15, line 15 - line 54 * * figures 6, 12 * -----	1-4,6-9	INV. G10K11/178
X	US 5 844 996 A (ENZMANN DIETER [US] ET AL) 1 December 1998 (1998-12-01) * column 5, line 66 - column 6, line 65 * * figure 7 * -----	1-9	
A	US 5 629 986 A (SHOURESHI RAHMAT [US]) 13 May 1997 (1997-05-13) * column 4, line 12 - line 66 * -----	1-9	
A	US 6 897 781 B2 (COOPER CRAIG L [US] ET AL) 24 May 2005 (2005-05-24) * column 16, line 8 - line 29 * -----	1-9	
			TECHNICAL FIELDS SEARCHED (IPC)
			G10K
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 4 March 2014	Examiner Swartjes, Harrie
CATEGORY OF CITED DOCUMENTS 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		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	

1
EPO FORM 1503 03.02 (P04C01)

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

EP 07 11 3776

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.

04-03-2014

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6137886	A	24-10-2000	CA 2154056 A1	19-01-1996
			EP 0693748 A2	24-01-1996
			JP H08221137 A	30-08-1996
			US 6137886 A	24-10-2000

US 5844996	A	01-12-1998	NONE	

US 5629986	A	13-05-1997	US 5418858 A	23-05-1995
			US 5629986 A	13-05-1997

US 6897781	B2	24-05-2005	AU 2004225091 A1	14-10-2004
			CA 2520359 A1	14-10-2004
			EP 1614082 A2	11-01-2006
			NZ 542861 A	22-12-2006
			US 2004189475 A1	30-09-2004
			WO 2004088607 A2	14-10-2004
