

(12)

EUROPEAN PATENT APPLICATION

(88)

Date of publication A3:
03.08.2011 **Bulletin 2011/31**

(51)

Int Cl.:
G04G 13/02 *(2006.01)*

(43)

Date of publication A2:
18.05.2011 **Bulletin 2011/20**

(21)

Application number: **10013380.0**

(22)

Date of filing: **06.10.2010**

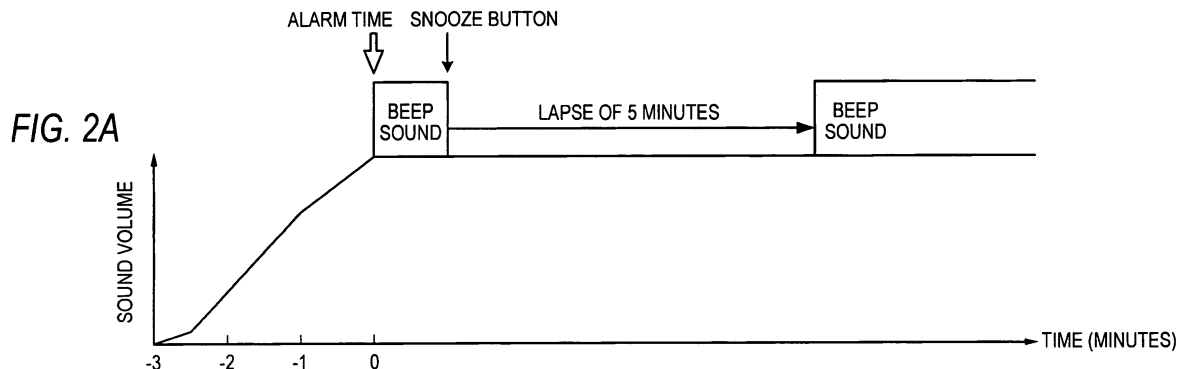
<div>(84)</div> <div> Designated Contracting States: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR Designated Extension States: BA ME </div>	<div>(72)</div> <div> Inventors: • Matsunuma, Yasuhiro Hamamatsu-shi Shizuoka (JP) • Kuramitsu, Daiki Hamamatsu-shi Shizuoka (JP) </div>
<div>(30)</div> <div> Priority: 06.10.2009 JP 2009232235 </div>	
<div>(71)</div> <div> Applicant: Yamaha Corporation Hamamatsu-shi, Shizuoka (JP) </div>	<div>(74)</div> <div> Representative: Carstens, Dirk Wilhelm Wagner & Geyer Gewürzmühlstraße 5 D-80538 München (DE) </div>

(54)

Audio reproducing device

(57)

An audio reproducing device includes a time setting section configured to set an alarm time, an audio signal processing section configured to start outputting of an audio signal when arrival of the alarm time set by the time setting section or arrival of a time point that is a predetermined time period before the alarm time, while gradually increasing a sound volume of the audio signal for a predetermined rising time period and changing a characteristic of a filtering process to the audio signal for the predetermined rising time period, and a sound outputting section configured to output the audio signal received from the audio signal processing section as a sound.





EUROPEAN SEARCH REPORT

Application Number
EP 10 01 3380

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	WO 99/53455 A1 (KONINKL PHILIPS ELECTRONICS NV [NL]; PHILIPS SVENSKA AB [SE]) 21 October 1999 (1999-10-21) * page 2, lines 29-31, 32-34 - page 3, lines 10-14; figures 1,2,3A *	1-5	INV. G04G13/02
A	DE 33 04 514 A1 (ITT IND GMBH DEUTSCHE [DE]) 16 August 1984 (1984-08-16) * page 6; figure 2 *	1-5	
A	US 4 377 345 A (YAMADA SHINJI [JP] ET AL) 22 March 1983 (1983-03-22) * column 2; figure 2 *	1-5	
A	US 2003/142591 A1 (BAWEJA BALJEET SINGH [US] ET AL) 31 July 2003 (2003-07-31) * abstract; figure 2 *	1-5	
			TECHNICAL FIELDS SEARCHED (IPC)
			G04G G04C
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 30 June 2011	Examiner Mérimeche, Habib
<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>			

 2
EPO FORM 1503 03.82 (P04C01)

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

EP 10 01 3380

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.

30-06-2011

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9953455	A1	21-10-1999	NONE
DE 3304514	A1	16-08-1984	NONE
US 4377345	A	22-03-1983	JP 1391469 C 23-07-1987 JP 56094291 A 30-07-1981 JP 61059464 B 16-12-1986
US 2003142591	A1	31-07-2003	NONE