

Title (en)  
Audio reproducing device

Title (de)  
Audiowiedergabegerät

Title (fr)  
Dispositif de reproduction audio

Publication  
**EP 2323003 A2 20110518 (EN)**

Application  
**EP 10013380 A 20101006**

Priority  
JP 2009232235 A 20091006

Abstract (en)  
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.

IPC 8 full level  
**G04G 13/02** (2006.01)

CPC (source: EP)  
**G04G 13/02** (2013.01); **G04G 13/023** (2013.01); **G04G 13/028** (2013.01)

Citation (applicant)  
JP H0522172 A 19930129 - CLARION CO LTD

Cited by  
US12051321B2

Designated contracting state (EPC)  
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 state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2323003 A2 20110518**; **EP 2323003 A3 20110803**; JP 2011081114 A 20110421; JP 5943534 B2 20160705

DOCDB simple family (application)  
**EP 10013380 A 20101006**; JP 2009232235 A 20091006