

Title (en)

APPARATUS INCLUDING MEANS FOR CONNECTING TO ONE OR MORE OUTER SPEAKERS AS WELL AS MEANS FOR DETECTING SUCH A CONNECTION

Title (de)

GERÄT MIT VORRICHTUNG FÜR DEN ANSCHLUSS VON EINEM ODER MEHREREN AUSSENLAUTSPRECHERN SOWIE MIT VORRICHTUNG ZUR ERKENNUNG EINES DERARTIGEN ANSCHLUSSES

Title (fr)

APPAREIL COMPRENANT DES MOYENS DE CONNEXION À UN OU DES HAUT PARLEURS EXTERNES AINSI QUE DES MOYENS DE DÉTECTION D'UNE TELLE CONNEXION

Publication

**EP 2514219 B1 20130807 (FR)**

Application

**EP 10790614 A 20101124**

Priority

- FR 0906152 A 20091218
- EP 2010007106 W 20101124

Abstract (en)

[origin: WO2011072795A1] The invention relates to an audio apparatus (1) including outer terminals for connecting to outer speakers (11g, 11d), and including means for establishing an electric signal between the outer terminals, which is representative of an audio source for injecting an electric excitation current into each outer speaker (11g, 11d). According to the invention, means are provided for integrating a component into the electric signal established between the outer terminals, which has a so-called detection frequency that is situated outside the audible spectrum, as well as means (13g, 13d) for detecting an electric current flowing between the outer terminals and having a frequency corresponding to the detection frequency. The invention is applicable in particular to systems including a mobile apparatus and a stationary docking station integrating a bass reflex speaker and intended to receive the mobile apparatus.

IPC 8 full level

**H04R 5/04** (2006.01); **H04R 29/00** (2006.01)

CPC (source: EP US)

**H04R 5/04** (2013.01 - EP US); **H04R 2205/021** (2013.01 - EP US); **H04R 2420/05** (2013.01 - EP US); **H04R 2430/01** (2013.01 - EP US)

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

DOCDB simple family (publication)

**WO 2011072795 A1 20110623**; CN 102656904 A 20120905; CN 102656904 B 20150909; EP 2514219 A1 20121024; EP 2514219 B1 20130807; FR 2954510 A1 20110624; FR 2954510 B1 20120608; US 2012250894 A1 20121004; US 9131306 B2 20150908

DOCDB simple family (application)

**EP 2010007106 W 20101124**; CN 201080057130 A 20101124; EP 10790614 A 20101124; FR 0906152 A 20091218; US 201013515799 A 20101124