

Title (en)

LOUDSPEAKER APPARATUS WITH CIRCUMFERENTIAL, FUNNEL-LIKE SOUND OUTLET OPENING

Title (de)

LAUTSPRECHERVORRICHTUNG MIT UMLAUFENDER, TRICHTERFÖRMIGER SCHALLAUSTRITTSÖFFNUNG

Title (fr)

DISPOSITIF HAUT-PARLEUR À OUVERTURE DE SORTIE DU SON PÉRIPHÉRIQUE, EN FORME GÉNÉRALE D'ENTONNOIR

Publication

EP 2577987 B1 20181017 (DE)

Application

EP 11721529 A 20110526

Priority

- DE 102010021879 A 20100528
- EP 2011058615 W 20110526

Abstract (en)

[origin: CA2795676A1] The invention relates to a loudspeaker apparatus which comprises at least one sound generation means, wherein an at least partially sound-conducting channel is arranged in a sound radiation direction of the sound generation means and is suitable for directing sound emerging from the sound generation means along the course of the sound-conducting channel such that the sound emerges from the loudspeaker apparatus at a second end of the sound-conducting channel, which end is in the form of a sound outlet opening, at a radiation angle which is defined by the sound outlet opening.

IPC 8 full level

H04R 1/34 (2006.01); **G10K 9/00** (2006.01); **H04R 1/30** (2006.01)

CPC (source: EP US)

G10K 9/00 (2013.01 - EP US); **H04R 1/345** (2013.01 - EP US); **H04R 1/30** (2013.01 - EP US)

Cited by

US11700482B2

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)

DE 102010021879 A1 20111201; BR 112012030161 A2 20180515; CA 2795676 A1 20111201; CA 2795676 C 20180814; CN 102845078 A 20121226; CN 102845078 B 20160127; EP 2577987 A1 20130410; EP 2577987 B1 20181017; ES 2706400 T3 20190328; JP 2013527719 A 20130627; JP 5774093 B2 20150902; RU 2012139665 A 20140710; RU 2573037 C2 20160120; US 2013058518 A1 20130307; US 8824718 B2 20140902; WO 2011147902 A1 20111201

DOCDB simple family (application)

DE 102010021879 A 20110526; BR 112012030161 A 20110526; CA 2795676 A 20110526; CN 201180017858 A 20110526; EP 11721529 A 20110526; EP 2011058615 W 20110526; ES 11721529 T 20110526; JP 2013511678 A 20110526; RU 2012139665 A 20110526; US 201113639364 A 20110526