

Title (en)

LOUDSPEAKER ASSEMBLY AND HEADPHONES FOR SPATIALLY LOCALIZING A SOUND EVENT

Title (de)

LAUTSPRECHERANORDNUNG UND KOPFHÖRER ZUM RÄUMLICHEN LOKALISIEREN EINES SCHALLEREIGNISSES

Title (fr)

ENSEMBLE HAUT-PARLEUR ET ÉCOUTEUR PERMETTANT DE LOCALISER SPATIALEMENT UN ÉVÉNEMENT SONORE

Publication

EP 3669554 A1 20200624 (DE)

Application

EP 18755462 A 20180814

Priority

- DE 102017118815 A 20170817
- EP 2018072035 W 20180814

Abstract (en)

[origin: WO2019034656A1] The invention relates to a loudspeaker assembly (1), in particular for on-ear headphones, for arranging on and/or over the ear (2), comprising a housing (3), in which a woofer (4), by means of which low-tone sound waves can be emitted along a low-tone sound axis (5) toward the ear (2), and at least one tweeter (6), by means of which high-tone sound waves can be emitted along a high-tone sound axis (7), are arranged. According to the invention, the at least one tweeter (6) is a MEMS loudspeaker.

IPC 8 full level

H04R 1/10 (2006.01); **H04R 1/26** (2006.01); **H04R 5/033** (2006.01)

CPC (source: EP KR US)

H04R 1/1008 (2013.01 - EP KR US); **H04R 1/26** (2013.01 - EP KR US); **H04R 5/033** (2013.01 - EP KR); **H04R 5/0335** (2013.01 - US); **H04R 2201/003** (2013.01 - EP KR US); **H04R 2205/022** (2013.01 - EP KR US)

Cited by

US11735154B2

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)

WO 2019034656 A1 20190221; AU 2018319201 A1 20200312; CA 3072978 A1 20190221; CN 111213387 A 20200529; CN 111213387 B 20220819; DE 102017118815 A1 20190221; EP 3669554 A1 20200624; KR 20200059218 A 20200528; SG 11202001322S A 20200330; TW 201914317 A 20190401; US 11146874 B2 20211012; US 2020252710 A1 20200806

DOCDB simple family (application)

EP 2018072035 W 20180814; AU 2018319201 A 20180814; CA 3072978 A 20180814; CN 201880053182 A 20180814; DE 102017118815 A 20170817; EP 18755462 A 20180814; KR 20207007608 A 20180814; SG 11202001322S A 20180814; TW 107127031 A 20180803; US 201816639670 A 20180814