

Title (en)
HEADPHONE UNIT

Title (de)
HÖRER

Title (fr)
ÉCOUTEUR

Publication
EP 3138298 A1 20170308 (DE)

Application
EP 15718886 A 20150428

Priority
• DE 102014207945 A 20140428
• EP 2015059176 W 20150428

Abstract (en)
[origin: WO2015165890A1] The invention relates to a headphone unit, comprising a first and a second ear shell (1). Each ear shell comprises a housing (1a), a peripheral ear cushion (3), and a first electroacoustic reproduction transducer (2) for emitting sound outwardly, which electroacoustic reproduction transducer is arranged in or on the housing of the ear shell (1). The headphone unit has at least one second reproduction transducer (20) for emitting sound in the direction of the ear of the user. The headphone unit has a first operating position, in which the ear shells (1) are placed with the ear cushions (3) on or around an ear. The headphone unit has a second operating position, in which the ear cushions (3) of the first and second ear shells (1) lie against each other such that a closed volume (100) is formed therebetween, which can be used as a resonance chamber for the two first electroacoustic reproduction transducers (2) when the two electroacoustic reproduction transducers (2) are activated in the second operating position. By designing the inner volume as a resonance chamber, outward reproduction into the free field can occur with good quality.

IPC 8 full level
H04R 1/10 (2006.01)

CPC (source: CN EP US)
H04R 1/1008 (2013.01 - EP US); **H04R 1/1041** (2013.01 - EP US); **H04R 1/1075** (2013.01 - US); **H04R 1/1091** (2013.01 - CN); **H04R 1/2811** (2013.01 - EP US); **H04R 3/14** (2013.01 - US); **H04R 1/323** (2013.01 - EP US); **H04R 2201/10** (2013.01 - CN); **H04R 2430/01** (2013.01 - EP US)

Citation (search report)
See references of WO 2015165890A1

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)
DE 102014207945 A1 20151029; **DE 102014207945 B4 20181213**; CN 106464997 A 20170222; CN 106464997 B 20190503; EP 3138298 A1 20170308; US 2017048601 A1 20170216; US 9906850 B2 20180227; WO 2015165890 A1 20151105

DOCDB simple family (application)
DE 102014207945 A 20140428; CN 201580023312 A 20150428; EP 15718886 A 20150428; EP 2015059176 W 20150428; US 201515306177 A 20150428