

Title (en)
DIRECTIONAL LOUDSPEAKER

Title (de)
RICHTLAUTSPRECHER

Title (fr)
HAUT-PARLEUR DIRECTIONNEL

Publication
EP 3018915 A1 20160511 (EN)

Application
EP 15192976 A 20151104

Priority
NL 2013741 A 20141104

Abstract (en)
A directional loudspeaker is described for use in the mid frequency range of the audio spectrum. The loudspeaker comprises: a housing comprising a front panel, side panels and a back panel, said housing comprising an acoustic resistive material; wherein at least one acoustic transducer is mounted to said front panel, said transducer being configured to drive a membrane for producing front waves at the front of said membrane and back waves at the back of said membrane; and, wherein one or more openings in said side panels, and, optionally, in said back panel allowing at least part of said back waves to exit said housing via said resistive material, said resistive material, said openings and said reflective back panel introducing for said back waves in the mid frequency range a phase delay, an attenuation and an amplitude such that an attenuation at the backside of said loudspeaker of 15 dB or more of the mid range frequencies is achieved.

IPC 8 full level
H04R 1/34 (2006.01)

CPC (source: EP)
H04R 1/347 (2013.01); **H04R 1/288** (2013.01); **H04R 1/30** (2013.01); **H04R 1/403** (2013.01)

Citation (applicant)
WO 2010108123 A1 20100923 - MEYER SOUND LAB INC [US]

Citation (search report)
• [AD] WO 2010108123 A1 20100923 - MEYER SOUND LAB INC [US]
• [A] US 3722616 A 19730327 - BEAVERS B
• [A] US 6628793 B1 20030930 - PORZILLI MARK G [US], et al
• [A] US 4054748 A 19771018 - BALOGH GEZA

Cited by
CN109462805A; US11102570B2; US11882400B2; US11153680B2; EP3429224A1; WO2019012070A1; WO2023030847A1; WO2020263101A1

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 3018915 A1 20160511; **EP 3018915 B1 20180606**; NL 2013741 B1 20161006

DOCDB simple family (application)
EP 15192976 A 20151104; NL 2013741 A 20141104