

Title (en)
ACOUSTIC TRANSDUCER

Title (de)
AKUSTISCHER WANDLER

Title (fr)
TRANSDUCTEUR ACOUSTIQUE

Publication
EP 3333846 A1 20180613 (EN)

Application
EP 17204722 A 20171130

Priority
IT 201600123575 A 20161206

Abstract (en)
An acoustic transducer (1) comprising: - a sound source (2) adapted to emit acoustic radiations along a prevalent emission axis (A2); - a horn (10) coupled to the sound source (2) and having a hollow main body (11) which extends between an inlet opening (12) that receives said acoustic radiations and an outlet opening (13) for their external broadcasting. The main body (11) has walls (14-17) which delimit a flared conduit having a variable section which allows the propagation of the acoustic radiations between the inlet opening (12) and the outlet opening (13). The main body (11) extends along a prevalent longitudinal extension axis (A10) misaligned with respect to the prevalent emission axis (A2). The horn (10) comprises, inside the flared conduit, obstacles (101,102) or partition elements (103) which locally narrow its section in at least two transverse directions (D11-D12) with respect to the prevalent longitudinal extension axis (A10).

IPC 8 full level
G10K 11/02 (2006.01); **H04R 1/28** (2006.01); **H04R 1/30** (2006.01)

CPC (source: EP)
G10K 11/025 (2013.01); **H04R 1/30** (2013.01); **H04R 1/2865** (2013.01); **H04R 1/403** (2013.01)

Citation (search report)
• [X] US 6658128 B1 20031202 - YOSHIOKA TSUTOMU [JP], et al
• [Y] WO 03069952 A1 20030821 - DURAN AUDIO B V [NL], et al
• [Y] US 2203875 A 19400611 - OLSON HARRY F
• [AD] US 8995700 B2 20150331 - BOTHE FRANK [DE]
• [A] EP 1927978 A1 20080604 - B & C SPEAKERS S P A [IT]

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IT202200002666A1

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 3333846 A1 20180613; **EP 3333846 B1 20210825**; ES 2897979 T3 20220303; IT 201600123575 A1 20180606

DOCDB simple family (application)
EP 17204722 A 20171130; ES 17204722 T 20171130; IT 201600123575 A 20161206