

Title (en)

ACOUSTIC DEVICE, IN PARTICULAR FOR APPLICATIONS IN THE AUTOMOTIVE INDUSTRY

Title (de)

AKUSTISCHE VORRICHTUNG, INSBESONDERE FÜR ANWENDUNGEN IN DER AUTOMOBILINDUSTRIE

Title (fr)

DISPOSITIF ACOUSTIQUE, EN PARTICULIER POUR DES APPLICATIONS DANS L'INDUSTRIE AUTOMOBILE

Publication

**EP 3343945 A1 20180704 (EN)**

Application

**EP 17210764 A 20171227**

Priority

IT 201600131329 A 20161227

Abstract (en)

An acoustic device (1) for applications in the automotive industry provided with a microphone device (3) connected to a support (2) and having a sensitive area (5); an acoustic conduit (10) designed to convey the sound pressure waves generated by an external acoustic source towards the sensitive area (5); a membrane (15) interposed between the microphone device (3) and the terminal portion (12) of the acoustic conduit (10); a grid (20) made of a metal material and arranged along the acoustic conduit (10) to protect the membrane (15) from the collision with possible bodies, which might enter the acoustic conduit (10), and to dissipate the energy of a pressurized fluid jet, which is incident on the device (1).

IPC 8 full level

**H04R 1/08** (2006.01); **H04R 1/30** (2006.01)

CPC (source: CN EP)

**H04R 1/086** (2013.01 - EP); **H04R 9/02** (2013.01 - CN); **H04R 9/06** (2013.01 - CN); **H04R 1/30** (2013.01 - EP); **H04R 2400/11** (2013.01 - CN); **H04R 2499/13** (2013.01 - EP)

Citation (search report)

- [IA] EP 3059125 A1 20160824 - PANASONIC IP MAN CO LTD [JP]
- [IA] US 2014198932 A1 20140717 - PARKINS JOHN W [US]
- [IA] FR 2547967 A1 19841228 - HORLOGERIE PHOTOGRAPH FSE [FR]

Cited by

EP3742751A1; DE102022205148B3

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 3343945 A1 20180704**; **EP 3343945 B1 20210407**; CN 108243376 A 20180703; IT 201600131329 A1 20180627

DOCDB simple family (application)

**EP 17210764 A 20171227**; CN 201711433311 A 20171226; IT 201600131329 A 20161227