

Title (en)

WAVEGUIDE ACOUSTIC DIFFRACTING DEVICE

Title (de)

VORRICHTUNG ZUR WELLENLEITERAKUSTIKDIFFRAKTION

Title (fr)

DISPOSITIF DE DIFFRACTION ACOUSTIQUE À GUIDE D'ONDES

Publication

EP 3243334 A1 20171115 (EN)

Application

EP 15848137 A 20151215

Priority

- IT TO20150007 A 20150108
- IT 2015000310 W 20151215

Abstract (en)

[origin: WO2016110876A1] A waveguide acoustic diffracting device is described, comprising: a waveguide (6), of an elongated shape and octagonal section, open at its sides and made of a sheet of bent cardstock, a loudspeaker (5) adapted to generate sound waves (8) sent inside the waveguide (6) and to support the waveguide (6) fastened to the flange of the loudspeaker (5), a bearing base composed of a double cylindrical ring (22, 23) which keeps the loudspeaker (5) in position, acoustically insulating it from the floor, wherein the waveguide (6) has many series of holes (7) on the side wall and simultaneously performs the following functions: a) waveguide (6), b) omni-directional passive acoustic radiator, c) acoustic delay, d) container, e) screen, f) non-elastic dissipater of acoustic energy, g) self-bearing and lightweight structural element.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2016110876A1

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