

Title (en)  
LOUDSPEAKER AND SOUNDBAR

Title (de)  
LAUTSPRECHER UND SOUNDBAR

Title (fr)  
HAUT-PARLEUR ET BARRE AUDIO

Publication  
**EP 3840399 A1 20210623 (EN)**

Application  
**EP 19218959 A 20191220**

Priority  
EP 19218959 A 20191220

Abstract (en)  
The present invention relates to a loudspeaker (40) and to a soundbar (50) comprising such a loudspeaker (40).The loudspeaker (40) comprises a first speaker unit (1), a second speaker unit (1) and a support structure (41). Each speaker unit (1) comprises a tubular side wall (2), a rear wall (3) and a speaker driver (4) comprising a speaker diaphragm (9) arranged to reciprocate in an axial direction parallel to a center line (10) extending through the center of the speaker diaphragm (9). For each speaker unit (1), the speaker driver (4) and the rear wall (3) are arranged at opposite ends (5, 6) of the side wall (2) to separate a rear cavity (7) from the environment (8). Both the volumes of the rear cavities (7) and the areas of the speaker diaphragms (9) of the first and the second speaker units (1) are equal.Furthermore, the support structure (41) mechanically maintains the first and the second speaker unit (1) in an arrangement wherein: their center lines (10) coincide and their speaker drivers (4) face each other to delimit a front cavity (43); the support structure (41) provides one or more openings (44) between the side walls (2) of the first and the second speaker units (1) fluidly connecting the front cavity (43) with the environment (8) and thereby defining a primary acoustic passageway (45) for sound waves to escape from the front cavity (43) to the environment (8); and the maximum axial extension of the primary acoustic passageway (45) is shorter than the maximum radial extension of the speaker diaphragms (9).The invention may e.g. be used to reduce sound-induced vibrations in a loudspeaker (40) or in a soundbar (50) and connected equipment.

IPC 8 full level  
**H04R 1/28** (2006.01); **H04R 1/40** (2006.01)

CPC (source: EP)  
**H04R 1/2857** (2013.01); **H04R 1/345** (2013.01); **H04R 1/403** (2013.01); **H04R 2209/026** (2013.01)

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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 3840399 A1 20210623**

DOCDB simple family (application)  
**EP 19218959 A 20191220**