

Title (en)  
DUAL AXIAL MAGNETIC FLUX INDUCTION SPEAKER

Title (de)  
DOPPELAXIALER MAGNETFLUSSINDUKTIONSLAUTSPRECHER

Title (fr)  
HAUT-PARLEUR INDUCTIF A DOUBLE FLUX MAGNETIQUE AXIAL

Publication  
**EP 4133750 A1 20230215 (FR)**

Application  
**EP 21724030 A 20210401**

Priority  
• CH 4252020 A 20200408  
• IB 2021052737 W 20210401

Abstract (en)  
[origin: WO2021205295A1] The present invention relates to the operating principle of a loudspeaker (20) with an induction motor (10). The motor (10) has two magnets (1a and 1b) positioned on either side of a central core (2). The magnets (1a and 1b) thus create two magnetic fields (9a and 9b) doubling the magnetic field detected in the movable armature (4). The magnetic field coupled to the electrical field generated by a fixed coil (5) creates a force in the armature (4), which is linked to diaphragm (7) producing the sound. Thus, by increasing the magnetic field, and therefore the force generated in the armature (4), the performances of the loudspeaker (20) are likewise enhanced.

IPC 8 full level  
**H04R 9/02** (2006.01); **H02K 33/18** (2006.01); **H04R 9/06** (2006.01)

CPC (source: EP US)  
**H02K 33/00** (2013.01 - EP); **H02K 33/16** (2013.01 - EP US); **H04R 9/025** (2013.01 - EP US); **H04R 9/06** (2013.01 - EP US);  
**H04R 2209/043** (2013.01 - EP US)

Citation (search report)  
See references of WO 2021205295A1

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2021205295 A1 20211014**; EP 4133750 A1 20230215; US 2023164492 A1 20230525

DOCDB simple family (application)  
**IB 2021052737 W 20210401**; EP 21724030 A 20210401; US 202117918078 A 20210401