

Title (en)
Magnetic system of an acoustic transducer

Title (de)
Magnetsystem eines Schallwandlers

Title (fr)
Système magnétique d'un transducteur acoustique

Publication
EP 1460881 A3 20070411 (DE)

Application
EP 04450043 A 20040301

Priority
AT 4182003 A 20030317

Abstract (en)
[origin: EP1460881A2] The transducer has a housing (6) with a maximum external diameter of 20 mm, and made of thin steel plate with a maximum average thickness of 0.2 mm. The magnet system (4) comprises a lower pole plate (11) and an upper pole plate (10). The pole plates (10,11) are made of steel plate with a thickness of at least 1.5 times the average thickness of the base of the housing (6). An independent claim is included for a method of manufacturing a transducer.

IPC 8 full level
H04R 9/06 (2006.01); **H04R 1/02** (2006.01); **H04R 9/02** (2006.01)

CPC (source: EP US)
H04R 9/025 (2013.01 - EP US); **H04R 9/06** (2013.01 - EP US); **H04R 2209/024** (2013.01 - EP US)

Citation (search report)

- [A] US 5751828 A 19980512 - UEDA HIROSHI [JP], et al
- [A] US 2002071590 A1 20020613 - HAN MAN-DAE [KR], et al
- [A] JP S5723397 A 19820206 - PIONEER ELECTRONIC CORP
- [A] GB 2104346 A 19830302 - JENSEN INT INC [US]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL LT LV MK

DOCDB simple family (publication)
EP 1460881 A2 20040922; EP 1460881 A3 20070411; EP 1460881 B1 20080924; AT 414196 B 20061015; AT A4182003 A 20051215; AT E409397 T1 20081015; CN 100359990 C 20080102; CN 1531370 A 20040922; DE 502004008108 D1 20081106; DK 1460881 T3 20090126; JP 2004282761 A 20041007; US 2004197005 A1 20041007; US 7151840 B2 20061219

DOCDB simple family (application)
EP 04450043 A 20040301; AT 04450043 T 20040301; AT 4182003 A 20030317; CN 200410039714 A 20040316; DE 502004008108 T 20040301; DK 04450043 T 20040301; JP 2004072155 A 20040315; US 80239604 A 20040316