

Title (en)
Loudspeaker unit

Title (de)
Lautsprechereinheit

Title (fr)
Unité de haut-parleur

Publication
EP 2187659 A3 20121003 (DE)

Application
EP 09175670 A 20091111

Priority
DE 102008058028 A 20081118

Abstract (en)
[origin: EP2187659A2] The unit (100) has a housing (50) provided with a housing section (60). A low tone unit (10), a sound wall (70) and a high tone unit (45) are provided in the section. The low tone unit and the high tone unit are designed as a two-path-coaxial-system. The high tone unit has a high tone horn (30) provided with multiple of bars (33) and recesses (31) at the edge of the horn. The high tone unit and the low tone unit are arranged in the wall in a plunged manner, where cross section of the high tone unit is larger than that of the low tone unit. The bars extend till to the edge of the wall.

IPC 8 full level
H04R 1/24 (2006.01); **H04R 1/34** (2006.01)

CPC (source: EP US)
H04R 1/025 (2013.01 - US); **H04R 1/24** (2013.01 - EP US); **H04R 1/345** (2013.01 - EP US); **H04R 1/26** (2013.01 - US); **H04R 5/02** (2013.01 - US); **H04R 2201/021** (2013.01 - EP US)

Citation (search report)

- [Y] US 6792125 B1 20040914 - DAVID JOHN R [US], et al
- [Y] US 2004190736 A1 20040930 - GELOW WILLIAM JAMES [US], et al
- [A] EP 1827056 A1 20070829 - YAMAHA CORP [JP]
- [A] US 5193119 A 19930309 - TONTINI FRANCO [IT], et al
- [A] US 5143339 A 19920901 - ASHCRAFT DANIEL W [US], et al
- [A] US 2005047604 A1 20050303 - WRIGHT DOUG S [US]

Cited by
CN104378717A

Designated contracting state (EPC)
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 SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2187659 A2 20100519; EP 2187659 A3 20121003; EP 2187659 B1 20150513; DE 102008058028 A1 20100520;
US 2010124340 A1 20100520; US 8503690 B2 20130806

DOCDB simple family (application)
EP 09175670 A 20091111; DE 102008058028 A 20081118; US 62019309 A 20091117