

Title (en)  
Headphone with optimised high frequency reproduction

Title (de)  
Kopfhörer mit optimierter Hochtonwiedergabe

Title (fr)  
Casque d'écoute avec reproduction des hautes fréquences optimisée

Publication  
**EP 1689208 A3 20090422 (DE)**

Application  
**EP 06002173 A 20060202**

Priority  
DE 102005005759 A 20050207

Abstract (en)  
[origin: EP1689208A2] The headphone has a broadband transducer (4) that is locally arranged in a housing for reproduction of audio signal in an auditory spectrum. A high sound transducer is arranged for the reproduction of high sound range of the high frequency spectrum. The high sound transducer is arranged in the center of the housing and points to an edge of the broadband transducer. The high sound transducer is connected upstream of a high pass filter.

IPC 8 full level  
**H04R 5/033** (2006.01)

CPC (source: EP US)  
**H04R 1/26** (2013.01 - EP US); **H04R 5/033** (2013.01 - EP US); **H04R 1/1075** (2013.01 - EP US)

Citation (search report)

- [X] US 6263085 B1 20010717 - WEEFFER SERGIO W [US]
- [X] US 5761314 A 19980602 - INANAGA KIYOFUMI [JP], et al
- [X] DE 4236765 A1 19930527 - KOENIG FLORIAN [DE]
- [A] DE 10061837 A1 20010920 - KOENIG FLORIAN MEINHARD [DE]
- [A] DE 20009869 U1 20011018 - KOENIG FLORIAN M [DE]
- [A] US 2003103637 A1 20030605 - HUANG JUI-SHU [TW]
- [A] DE 2416042 A1 19741031 - AKG AKUSTISCHE KINO GERAETE

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

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1689208 A2 20060809; EP 1689208 A3 20090422**; DE 102005005759 A1 20060817; JP 2006222962 A 20060824;  
US 2006188108 A1 20060824

DOCDB simple family (application)  
**EP 06002173 A 20060202**; DE 102005005759 A 20050207; JP 2006029994 A 20060207; US 34842406 A 20060206