

Title (en)  
Headphone

Title (de)  
Kopfhörer

Title (fr)  
Casque d'écoute

Publication  
**EP 1443799 A3 20090805 (DE)**

Application  
**EP 04450007 A 20040115**

Priority  
AT 1542003 A 20030131

Abstract (en)  
[origin: EP1443799A2] A Cartesian ambient system forms a basis. A Z surface plane represents a symmetrical surface plane. A Y surface plane is set up as a surface plane on it as normal and passes through the center of a hoop (2). An X surface plane is set up at any height as a surface plane orthogonal to both defined surface planes.

IPC 8 full level  
**H04R 1/00** (2006.01); **H04R 1/10** (2006.01); **H04R 5/033** (2006.01)

CPC (source: EP US)  
**H04R 1/1066** (2013.01 - EP US); **H04R 1/1008** (2013.01 - EP US); **H04R 5/033** (2013.01 - EP US)

Citation (search report)  
• [X] DE 2540839 A1 19760401 - NIPPON MUSICAL INSTRUMENTS MFG  
• [X] US 5761314 A 19980602 - INANAGA KIYOFUMI [JP], et al  
• [A] US 5293647 A 19940315 - MIRMILSHTEYN MICHAEL [US], et al

Cited by  
DE102013227088A1; EP3840407A1; US9930439B2; US10111781B2; WO2010151191A1; EP1656816B1

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 PT RO SE SI SK TR

Designated extension state (EPC)  
AL LT LV MK

DOCDB simple family (publication)  
**EP 1443799 A2 20040804; EP 1443799 A3 20090805; EP 1443799 B1 20130410**; AT 413923 B 20060715; AT A1542003 A 20051015; CN 1333619 C 20070822; CN 1523926 A 20040825; JP 2004236323 A 20040819; JP 3984594 B2 20071003; RU 2004102769 A 20050710; RU 2282953 C2 20060827; US 2004213428 A1 20041028; US 7072483 B2 20060704

DOCDB simple family (application)  
**EP 04450007 A 20040115**; AT 1542003 A 20030131; CN 200410003773 A 20040130; JP 2004020391 A 20040128; RU 2004102769 A 20040130; US 76898704 A 20040129