

Title (en)

Headphones with amplified reproduction of high pitched sounds

Title (de)

Kopfhörer mit verstärkter Hochtonwiedergabe

Title (fr)

Casque stéréo à lecture d'aigus renforcée

Publication

**EP 1833277 A3 20100106 (DE)**

Application

**EP 07004698 A 20070307**

Priority

DE 102006011514 A 20060310

Abstract (en)

[origin: EP1833277A2] The headphone has an in-phase operated, locally wide-banded primary sound transducer (2) arranged in a casing and for reproduction of audio signals in a range of an entire audio spectrum. An out-of-phase operated secondary high audio sound transducer (3) reproduces a high audio range of an audio frequency spectrum. The secondary sound transducer is arranged in an area of an edge of the primary sound transducer before or outside the primary sound transducer, where the edge points from a center of the casing.

IPC 8 full level

**H04R 5/033** (2006.01)

CPC (source: EP)

**H04R 1/26** (2013.01); **H04R 5/02** (2013.01); **H04R 5/033** (2013.01); **H04S 1/005** (2013.01); **H04S 3/004** (2013.01); **H04S 2400/11** (2013.01)

Citation (search report)

- [Y] EP 1542502 A2 20050615 - ULTRASONE AG [DE]
- [Y] US 6263085 B1 20010717 - WEEFFER SERGIO W [US]
- [A] US 2005207606 A1 20050922 - YANG BILL [TW]
- [A] DE 2511363 A1 19750918 - MATSUSHITA ELECTRIC IND CO LTD

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**EP 1833277 A2 20070912; EP 1833277 A3 20100106**; DE 102006011514 A1 20070913

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**EP 07004698 A 20070307**; DE 102006011514 A 20060310