

Title (en)  
APPARATUS FOR REPRODUCING ACOUSTIC SIGNALS

Title (de)  
GERÄT ZUR WIEDERGABE VON TONSIGNALEN

Title (fr)  
APPAREIL DE REPRODUCTION DE SIGNAUX ACOUSTIQUES

Publication  
**EP 0464217 B1 19960612 (EN)**

Application  
**EP 91902738 A 19910118**

Priority  
• JP 9100057 W 19910118  
• JP 852090 A 19900119  
• JP 851490 A 19900119

Abstract (en)  
[origin: EP0464217A1] An apparatus for binaurally reproducing acoustic signals using a headphone device. In the acoustic signal reproducing apparatus, a memory means stores information about transfer characteristics of the path from an imaginary source of sound to both ears of a listener in at least one quadrant around the listener. The transfer characteristics information stored in the memory means is used to form transfer characteristics information at the angular position of the head. The information thus formed is represented by the outputs of detecting means, and acoustic signals of the right and left channels are processed by acoustic signal processing means. In the acoustic signal reproducing apparatus, furthermore, at least two pieces of transfer characteristics information near the angular position of the head of the listener are read out from the memory means, and acoustic signals of the right and left channels are processed by acoustic signal processing means based on transfer characteristics information at the angular position of the head found by interpolation by the interpolation calculation means. Even when the listener moves, the acoustic signal reproducing apparatus maintains proper binaural reproduction without causing the imaginary source of sound to move owing to the use of the headphone device.

IPC 1-7  
**H04S 1/00**; **H04R 5/033**

IPC 8 full level  
**H04R 5/033** (2006.01); **H04S 1/00** (2006.01)

CPC (source: EP KR)  
**H04R 5/033** (2013.01 - KR); **H04S 1/005** (2013.01 - EP)

Citation (examination)  
JP H05165901 A 19930702 - MUTOH IND LTD

Cited by  
EP0744881A3; DE4433719B4; GB2282306A; US5526429A; GB2282306B; EP2288178A1; CN101998222A; US9706304B1; US8787602B2

Designated contracting state (EPC)  
DE FR GB NL

DOCDB simple family (publication)  
**EP 0464217 A1 19920108**; **EP 0464217 A4 19920624**; **EP 0464217 B1 19960612**; CA 2048686 A1 19910720; CA 2048686 C 20010102; DE 69120150 D1 19960718; DE 69120150 T2 19961212; DE 69132430 D1 20001102; DE 69132430 T2 20010405; EP 0664660 A2 19950726; EP 0664660 A3 19950809; EP 0664660 B1 20000927; KR 920702175 A 19920812; WO 9111080 A1 19910725

DOCDB simple family (application)  
**EP 91902738 A 19910118**; CA 2048686 A 19910118; DE 69120150 T 19910118; DE 69132430 T 19910118; EP 95104929 A 19910118; JP 9100057 W 19910118; KR 910701121 A 19910916