

Title (en)

Method and system for providing an acoustic signal with extended bandwidth

Title (de)

Verfahren und System zur Bereitstellung eines Tonsignals mit erweiterter Bandbreite

Title (fr)

Procédé et système fournissant un signal acoustique avec une largeur de bande étendue

Publication

**EP 1892703 A1 20080227 (EN)**

Application

**EP 06017456 A 20060822**

Priority

EP 06017456 A 20060822

Abstract (en)

The invention is directed to a method for providing an acoustic signal with extended bandwidth, comprising automatically determining a current upper and a current lower bandwidth limit of a received acoustic signal, automatically determining at least one complementary signal to complement the received acoustic signal between a predefined lower broadband bandwidth limit and the current lower bandwidth limit and/or between the current upper bandwidth limit and a predefined upper broadband bandwidth limit, wherein the predefined lower broadband bandwidth limit is smaller than the current bandwidth limit and the predefined upper broadband bandwidth limit is larger than the current upper bandwidth limit, automatically assembling the at least one complementary signal and the received acoustic signal to obtain an acoustic signal with extended bandwidth.

IPC 8 full level

**G10L 21/02** (2006.01); **G10L 21/038** (2013.01); **G10L 19/00** (2006.01)

CPC (source: EP KR)

**G10L 19/02** (2013.01 - KR); **G10L 19/06** (2013.01 - KR); **G10L 19/08** (2013.01 - KR); **G10L 21/038** (2013.01 - EP);  
**G10L 2019/0001** (2013.01 - EP)

Citation (applicant)

- EP 1638083 A1 20060322 - HARMAN BECKER AUTOMOTIVE SYS [DE]
- EP 0944036 A1 19990922 - JAPAN BROADCASTING CORP [JP]
- US 2002138268 A1 20020926 - GUSTAFSSON HARALD [SE]
- EP 1298643 A1 20030402 - KENWOOD CORP [JP], et al

Citation (search report)

- [XY] EP 1638083 A1 20060322 - HARMAN BECKER AUTOMOTIVE SYS [DE]
- [Y] EP 0944036 A1 19990922 - JAPAN BROADCASTING CORP [JP]
- [Y] US 2002138268 A1 20020926 - GUSTAFSSON HARALD [SE]
- [A] WO 2005078707 A1 20050825 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [A] US 6539355 B1 20030325 - OMORI SHIRO [JP], et al
- [XY] ISER B ET AL: "BANDWIDTH EXTENSION OF TELEPHONY SPEECH", EURASIP NEWS LETTER, XX, XX, June 2005 (2005-06-01), pages 1 - 148, XP002372006, ISSN: 1687-1421

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Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1892703 A1 20080227**; **EP 1892703 B1 20091021**; AT E446572 T1 20091115; CA 2596411 A1 20080222; CN 101141533 A 20080312; CN 101141533 B 20130904; DE 602006009927 D1 20091203; JP 2008052277 A 20080306; JP 5150165 B2 20130220; KR 101433833 B1 20140827; KR 20080018132 A 20080227

DOCDB simple family (application)

**EP 06017456 A 20060822**; AT 06017456 T 20060822; CA 2596411 A 20070808; CN 200710146610 A 20070822; DE 602006009927 T 20060822; JP 2007214930 A 20070821; KR 20070084306 A 20070822