

Title (en)

Microphone array with self-adjusting directivity for handsets and hands free kits

Title (de)

Mikrofonanordnung mit selbstanpassender Richtcharakteristik für Telefonhandapparate und Freisprechanlagen

Title (fr)

Réseau de microphones avec une directivité auto-réglable pour des combinés téléphoniques et dispositifs mains libres

Publication

EP 1206161 A1 20020515 (EN)

Application

EP 00124648 A 20001110

Priority

EP 00124648 A 20001110

Abstract (en)

The present invention proposes a transducer arrangement for a communication device, comprising an array of microphones (10) for receiving acoustic signals (11) from a sound source (12) and transducing received acoustic signals in electrical signals, and a processing means (13) for combining signals obtained from the microphones (10) of the array on the basis of differences in the signals related to the position of a sound source so that the directivity of the array of microphones is aligned towards the sound source. <IMAGE>

IPC 1-7

H04R 3/00; **H04R 1/40**

IPC 8 full level

H04R 1/40 (2006.01); **H04R 3/00** (2006.01)

CPC (source: EP)

H04R 1/406 (2013.01); **H04R 3/005** (2013.01)

Citation (search report)

- [XY] DE 19818611 C1 19990916 - DEUTSCHE TELEKOM AG [DE]
- [YA] WO 9846043 A2 19981015 - INTERKOM ELECTRONIC KOCK & MRE [DE], et al
- [XY] PATENT ABSTRACTS OF JAPAN vol. 013, no. 350 (E - 800) 7 August 1989 (1989-08-07)
- [XY] OMOLOGO M SVAIZER P: "ACOUSTIC EVENT LOCALIZATION USING A CROSSPOWER-SPECTRUM PHASE BASEDTECHNIQUE", PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING. (ICASSP),US,NEW YORK, IEEE, vol. CONF. 19, 19 April 1994 (1994-04-19), pages II - 273-II-276, XP000528478, ISBN: 0-7803-1776-9
- [Y] ELKO G W ET AL: "A STEERABLE AND VARIABLE FIRST-ORDER DIFFERENTIAL MICROPHONE ARRAY", PLENARY, EXPERT SUMMARIES, SPECIAL, AUDIO, UNDERWATER ACOUSTICS, VLSI.MUNICH, APR. 21 - 24, 1997,LOS ALIMITOS,CA: IEEE COMP. SOC. PRESS,US, 21 April 1997 (1997-04-21), pages 223 - 226, XP000789158, ISBN: 0-8186-7920-4
- [Y] PATENT ABSTRACTS OF JAPAN vol. 014, no. 273 (E - 0940) 13 June 1990 (1990-06-13)

Cited by

DE102014013919B4; US8913757B2; US9036843B2; US9843880B2; EP1489596A1; DE102017215219A1; US2012114130A1; DE102014013919A1; CN106686185A; EP3089431A4; DE102016013042A1; CN109997368A; US7966178B2; US10999675B2; US12003946B2; WO2004107805A1; WO2004111995A1; WO2006046085A1; WO2008101198A3; GB2397463A; EP2355559A1; US2011194700A1; US2011194704A1; US2015098573A1; US9763004B2; US10623853B2; US6987992B2; US9736611B2

Designated contracting state (EPC)

AT

DOCDB simple family (publication)

EP 1206161 A1 20020515

DOCDB simple family (application)

EP 00124648 A 20001110