

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number
WO 2005/069682 A1

(51) International Patent Classification⁷: **H04R 19/04**

(21) International Application Number:
PCT/KR2004/002527

(22) International Filing Date: 1 October 2004 (01.10.2004)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2004-0004251 20 January 2004 (20.01.2004) KR

(71) Applicant (for all designated States except US): **BSE CO., LTD** [KR/KR]; 4L, 58B, 626-3, Gojan-dong, Nam-dong-gu, Incheon-si 405-817 (KR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **SONG, Cheong-Dam** [KR/KR]; 236-6, Gayang 1-dong, Gangseo-gu, Seoul 157-801 (KR).

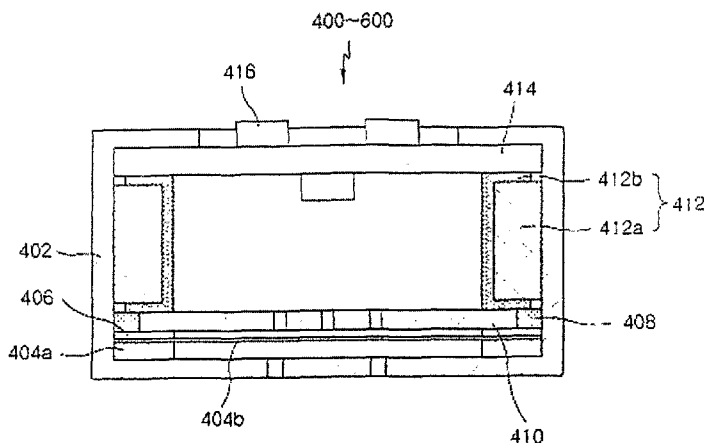
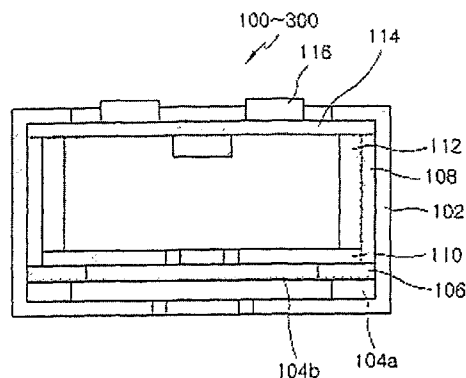
(74) Agents: **GAM, Dong-Hoon** et al.; No. 201, New Seoul Bldg., 828-8, Yeoksam-dong, Kangnam-gu, Seoul 135-080 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: A PARALLELEPIPED TYPE CONDENSER MICROPHONE FOR SMD



(57) Abstract: A condenser microphone having a shape of parallelepiped for easily confirming the direction of a component in the process of SMD even if the microphone has two or more electric connecting terminals is disclosed. The condenser microphone comprises a case; a diaphragm member; a thin spacer; a cylindrical insulating ring; a back plate; an annular conductive ring; and the PCB. According to the present invention, since the direction of a component can be confirmed during a process of a surface mounting device (SMD), terminal connections of the component can be easily adjusted. Accordingly, this can prevent connection surfaces of connection terminals of a main PCB and connection terminals of the condenser microphone from being deviated, and also decrease a failure of connection that may be resulted from change of connection or direction (polarity) of the connection terminals.

WO 2005/069682 A1



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*