(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 March 2003 (20.03.2003)

PCT

(10) International Publication Number
WO 03/022156 A1

(51) International Patent Classification[7]: A61B 08/00

(21) International Application Number: PCT/US01/27562

(22) International Filing Date:
6 September 2001 (06.09.2001)

(25) Filing Language: English

(26) Publication Language: English

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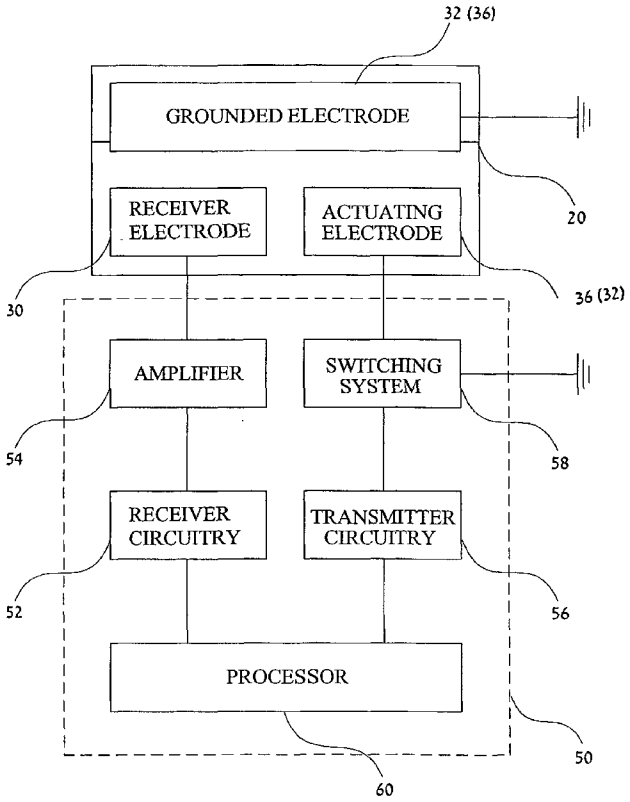
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(81) Designated States *(national)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States *(regional)*: ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: CYLINDRICAL ULTRASOUND RECEIVERS AND TRANSCEIVERS FORMED FROM PIEZOELECTRIC FILM



(57) Abstract: An ultrasound receiver (20) includes a hollow cylinder (22) formed primarily from flexible piezoelectric film, the hollow cylinder (22) having an outer surface (24) an inner surface (26), a central axis (28) and a height measured parallel to the central axis (28). A sensing electrode is formed from conductive material applied to the surface, while a grounded electrode (32) is formed from conductive material applied to the outer surface (24). The hollow cylinder (2) is supported by a support structure configured to allow propagation of vibration waves circumferentially around a major part of the hollow cylinder (22). The sensing electrode is formed as a strip extending in an extensional direction substantially parallel to the central axis (28) along a major part of the height, the strip subtending at the central axis (28) at an angle of not more than 90 degrees.

WO 03/022156 A1

Published:
— *with international search report*

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