

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
19 June 2025 (19.06.2025)



(10) International Publication Number
WO 2025/127997 A1

(51) International Patent Classification:

B06B 1/06 (2006.01) **H10N 30/098** (2023.01)
G01N 29/24 (2006.01) **G01L 1/16** (2006.01)
H03H 9/25 (2006.01) **G01M 5/00** (2006.01)
H10N 30/857 (2023.01) **H03H 9/145** (2006.01)

(21) International Application Number:

PCT/SG2024/050766

(22) International Filing Date:

29 November 2024 (29.11.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

10202303499X 14 December 2023 (14.12.2023) SG

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT,

(54) Title: ULTRASONIC TRANSDUCER AND METHOD OF STRUCTURAL HEALTH MONITORING

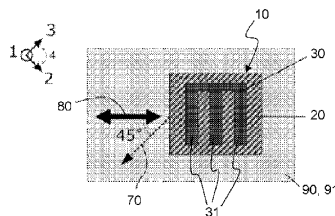


FIG 1a

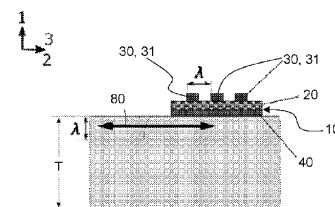


FIG 1b

(57) Abstract: A flexible ultrasonic transducer part comprising: a flexible piezoelectric film made from polylactic acid and having a shear mode piezoelectric effect; and a first electrode provided on a first surface of the piezoelectric film; wherein in use for monitoring structural health of a structure, a second electrode is provided on a second surface of the piezoelectric film to form an ultrasonic transducer that is attached to the structure such that a molecular chain orientation of the piezoelectric film is at 35 to 55 degrees relative to a propagation direction of a surface wave generated on the structure.

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LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE,
SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*