

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

(19) World Intellectual Property Organization

(43) International Publication Date
23 June 2022 (23.06.2022)



(10) International Publication Number
WO 2022/129307 A1

(51) International Patent Classification:

H04R 3/00 (2006.01) *G01H 3/12* (2006.01)
H04R 1/40 (2006.01)

(21) International Application Number:

PCT/EP2021/086138

(22) International Filing Date:

16 December 2021 (16.12.2021)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) Priority Data:

63/127.845 18 December 2020 (18.12.2020) US

(71) Applicant: SOROMA HOLDING B.V. [NL/NL]; Torenaallee 20, 5617 BC Eindhoven (NL).

(72) **Inventors:** SCHOLTE, Rick; Torenallee 20, 5617 BC Eindhoven (NL). JANSSEN, Ivo; Torenallee 20, 5617 BC Eindhoven (NL).

(74) **Agent: FRKELLY**; 27 Clyde Road, Dublin, D04 F838 (IE).

(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, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,

KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, 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, SH, SL, ST, 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, GH, GM, KE, LR, LS, MW, MZ, NA, RW, 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, LU, LV, MC, 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))*

(54) Title: INTEGRATED HOUSING AND PASSIVE COOLING FOR AN ACOUSTIC CAMERA

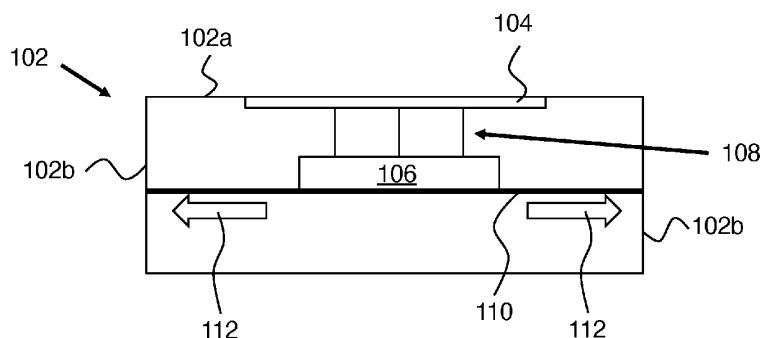


FIG. 1A

(57) Abstract: Improved passive heat sinking of acoustic cameras having a microphone array and onboard processor is provided. The onboard processor is heat sunk using a heat sink member within a sealed enclosure to conduct heat to a heat dissipation surface of the enclosure. Preferably the heat sink member is mostly a spring member having the dual functions of providing mechanical force to ensure good thermal contact with the onboard processor and providing heat conduction to the heat dissipation surface. A single enclosure can enclose both the onboard processor and the microphone array. Alternatively, the enclosure can have two parts, a first part enclosing the microphone array, and a second part enclosing the onboard processor.

WO 2022/129307 A1