

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
29 August 2024 (29.08.2024)



(10) International Publication Number
WO 2024/178387 A3

(51) International Patent Classification:
H05B 6/12 (2006.01) *F24C 7/06* (2006.01)
F24C 7/08 (2006.01)

(21) International Application Number:
PCT/US2024/017159

(22) International Filing Date:
23 February 2024 (23.02.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/486,632 23 February 2023 (23.02.2023) US

(71) Applicant: **IMPULSE LABS, INC.** [US/US]; 38 Clyde Street, San Francisco, California 94107 (US).

(72) Inventors: **D'AMICO, Samuel R.**; c/o Impulse Labs, Inc., 38 Clyde Street, San Francisco, California 94107 (US). **LENIUS, Samuel W.**; c/o Impulse Labs, Inc., 38 Clyde Street, San Francisco, California 94107 (US). **DAVIS, Jacob**; c/o Impulse Labs, Inc., 38 Clyde Street, San Francisco, California 94107 (US). **STEGNER, Katherine**; c/o Im-

pulse Labs, Inc., 38 Clyde Street, San Francisco, California 94107 (US). **TALLON, Bradley J.**; c/o Impulse Labs, Inc., 38 Clyde Street, San Francisco, California 94107 (US).

(74) Agent: **DUTTA, Sanjeet K.**; Goodwin Procter LLP, 100 Northern Avenue, IP Docketing Dept./7th Fl., Boston, Massachusetts 02210 (US).

(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,

(54) Title: TEMPERATURE SENSING DEVICE

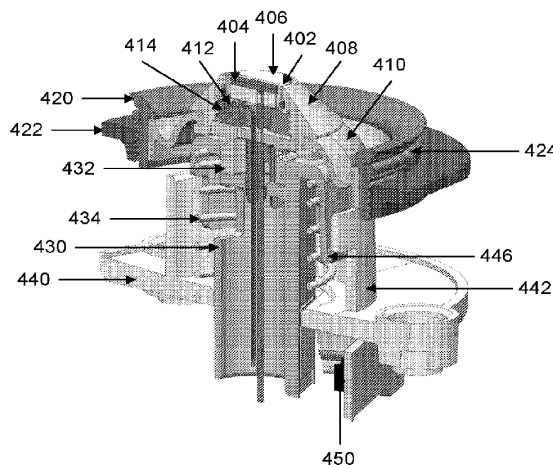


FIG. 4B

(57) Abstract: A temperature sensing device for an induction stove and a method for assembling the temperature sensing device are described. An example temperature sensing device includes a sensor package including one or more sensors, a plunger assembly configured to hold the sensor package, and a support base configured to provide a physical support for the plunger assembly.

[Continued on next page]

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, 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))*

(88) Date of publication of the international search report:

24 October 2024 (24.10.2024)