

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
21 November 2024 (21.11.2024)



(10) International Publication Number
WO 2024/238861 A1

(51) International Patent Classification:
G09B 23/28 (2006.01) *A61M 5/20* (2006.01)

(21) International Application Number:
PCT/US2024/029802

(22) International Filing Date:
16 May 2024 (16.05.2024)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/502,895 17 May 2023 (17.05.2023) US
63/508,717 16 June 2023 (16.06.2023) US

(71) Applicant: **REGENERON PHARMACEUTICALS, INC.** [US/US]; 777 Old Saw Mill River Road, Tarrytown, New York 10591 (US).

(72) Inventors: **JOHANNES, Ashley**; c/o Regeneron Pharmaceuticals, Inc., 26 Tech Valley Drive, 102, East Greenbush,

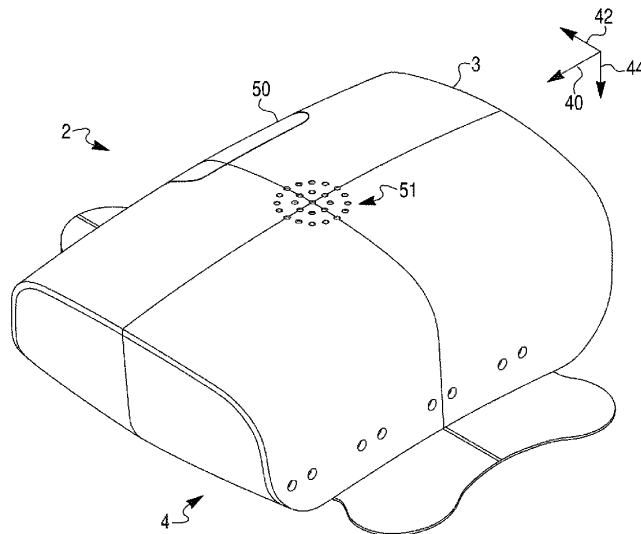
New York 12061 (US). **MOORE, Jeff**; c/o Phillips-Medsize, LLC, 1201 Hanley Road, Hudson, Wisconsin 54016 (US).

(74) Agent: **UHR, William, R.** et al.; c/o Bookoff McAndrews, PLLC, 2000 Pennsylvania Ave., Suite 4001, Washington, District of Columbia 20006 (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.

(54) Title: AUTO-INJECTOR TRAINING DEVICE AND RELATED METHODS OF USE

FIG. 1



(57) Abstract: A training device may include a housing having a tissue-engaging surface, an activating switch configured to be moved from a deactivated configuration to an activated configuration, a touch sensor disposed on the tissue-engaging surface and configured to detect contact with skin or synthetic injection surface, a motor, and a controller coupled to the motor. The controller may be configured to receive a first indication that the activating switch has been moved to the activated configuration, receive a second indication that the touch sensor has detected contact with skin or synthetic injection surface; and the motor to be driven for a predetermined period of time.

[Continued on next page]

(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, 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))*