

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
08 July 2021 (08.07.2021)



(10) International Publication Number
WO 2021/138659 A1

(51) International Patent Classification:

F04B 43/12 (2006.01) *F04B 17/03* (2006.01)
F04B 13/00 (2006.01) *F04B 49/06* (2006.01)

(21) International Application Number:

PCT/US2021/012055

(22) International Filing Date:

04 January 2021 (04.01.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/956,984 03 January 2020 (03.01.2020) US

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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, 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,

(54) Title: PERISTALTIC METERING PUMP AND METHODS OF OPERATION

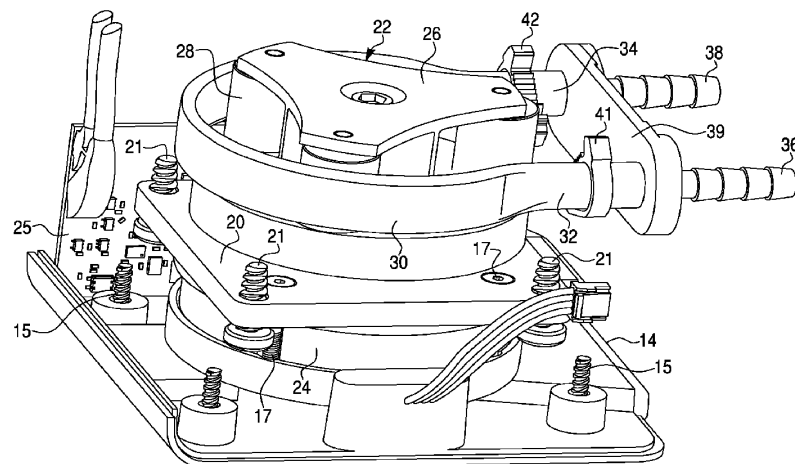


FIG. 3B

(57) Abstract: A peristaltic metering pump for aquariums, vivariums and terrariums, comprising an inlet port (36); an outlet port (38); a stator (18) having an internal surface (19); a tubing (30) having an inlet end (32) connected to the inlet port (36), and an outlet end (34) connected to the outlet port (38); a rotor (22) comprising a roller carrier (26) and two or more rollers (28) rotatably mounted to the roller carrier (26), a portion of the tubing (30) is compressed between at least one roller (28) and the internal surface (19); a stepper motor (24) configured to rotate the pump rotor (22); and a controller (25) operably connected to the motor (24) and configured to advance the rotor (22) to dispense a specified volume and to reverse the motor (24) and return the rollers (28) to a park position after each dosing event is completed.

[Continued on next page]

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, 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))