

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
22 June 2023 (22.06.2023)



(10) International Publication Number
WO 2023/114373 A1

(51) International Patent Classification:

B64D 1/16 (2006.01) *C05G 5/14* (2020.01)
A01C 15/16 (2006.01) *B64D 1/02* (2006.01)
A01C 19/02 (2006.01) *B64U 101/40* (2023.01)
A01C 21/00 (2006.01) *B64U 101/45* (2023.01)
B64U 10/13 (2023.01)

(21) International Application Number:

PCT/US2022/052970

(22) International Filing Date:

15 December 2022 (15.12.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/290,906 17 December 2021 (17.12.2021) 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, 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,

(54) Title: MATERIAL DELIVERY SYSTEMS AND METHODS

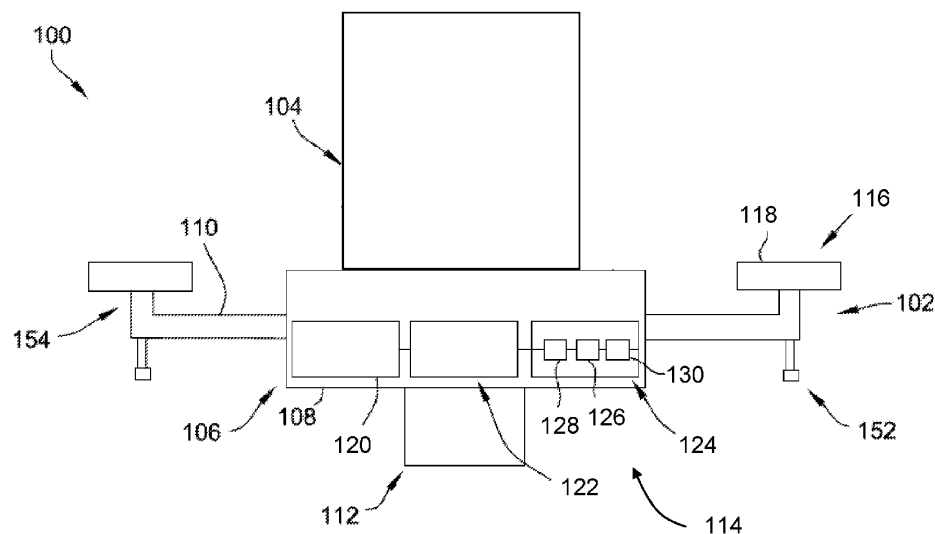


FIG. 1

(57) Abstract: Described herein is an aerial material delivery system (100), which includes an unmanned aerial vehicle (UAV) (102) and a material dispensing assembly (114) mounted to the UAV (102). The material dispensing assembly (114) includes a rotary cartridge (104) defining a plurality of channels (122) extending parallel to a longitudinal axis (206) of the rotary cartridge, each channel (122) retaining a respective set of tablets (214) therein, an indexing motor (240) configured to index the channels (122), and a dispenser (112) configured to dispense a single tablet (214) at a time from the rotary cartridge (104) to a target location. Methods of operating such a system are also described.

[Continued on next page]

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LY, MA, MD, 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, 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, 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).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

Published:

— *with international search report (Art. 21(3))*