

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
27 April 2023 (27.04.2023)



(10) International Publication Number
WO 2023/066016 A1

(51) International Patent Classification:

A01G 31/02 (2006.01) G06F 16/25 (2019.01)
A01G 9/24 (2006.01)

(21) International Application Number:

PCT/CN2022/123174

(22) International Filing Date:

30 September 2022 (30.09.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

32021040786.4 20 October 2021 (20.10.2021) HK

(71) Applicant: **FARM LOCALLY LIMITED** [CN/CN]; 22/
F, W Business Centre, 4 Kam Hong Street, North Point,
Hong Kong (CN).

(72) Inventor: **CHAN, Edwin Yat-Wang**; 22/F, W Business
Centre, 4 Kam Hong Street, North Point, Hong Kong (CN).

(74) Agent: **BEIJING PAT SF INTELLECTUAL PROPER-
TY AGENCY CO. LTD.**; 1110-11, A, Floor 11, Chengjian
Plaza, 18 Beitaipingzhuang Road, Haidian District, Beijing
100088 (CN).

(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, 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, 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))

(54) Title: HYDROPONICS FARMING APPARATUS, AND SYSTEMS INCLUDING THE SAME

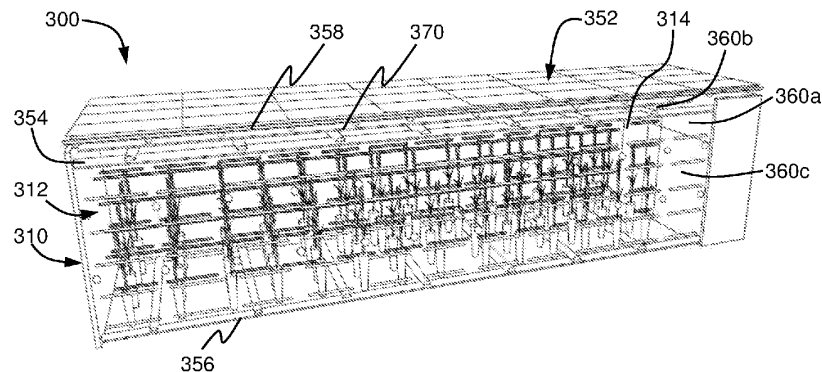


Figure 3A

(57) Abstract: Embodiments of the present invention provide hydroponics farming apparatus, and systems including the same. The farming apparatus comprises a frame, a plurality of functional systems, a first plurality of sensors configured to monitor conditions associated with farming of the one or more plants, and one or more modular storage cabinets removably attached to the frame. The one or more modular storages include electronics that are pre-assembled and configured to communicate with one or more of the first plurality of sensors and the plurality of functional systems. The electronics includes a main controller configured to collect data from the first plurality of sensors.



WO 2023/066016 A1