

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
17 March 2022 (17.03.2022)



(10) International Publication Number
WO 2022/055341 A1

- (51) **International Patent Classification:**
A01G 31/06 (2006.01) *A01G 31/00* (2018.01)
- (21) **International Application Number:**
PCT/MY2021/050015
- (22) **International Filing Date:**
17 March 2021 (17.03.2021)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
PI2020004696 11 September 2020 (11.09.2020) MY
- (71) **Applicant: BOOMGROW PRODUCTIONS SDN BHD** [MY/MY]; Unit 1-2, Level 1, Office Block Pusat Kreatif Kanak-Kanak Tuanku Bainun, 48, Jalan Tun Mohd Fuad, Taman Tun Dr Ismail, Kuala Lumpur, 60000 (MY).
- (72) **Inventors: DANASAMY, Jayanthi Naidu;** c/o Boom-Grow Productions Sdn Bhd, Unit 1-2, Level 1, Office Block Pusat Kreatif Kanak-Kanak Tuanku Bainun, 48, Jalan Tun Mohd Fuad, Taman Tun Dr Ismail, Kuala Lumpur, 60000 (MY). **KRISHNAMURTHY, Murali Desan;** c/o Boom-Grow Productions Sdn Bhd, Unit 1-2, Level 1, Office Block Pusat Kreatif Kanak-Kanak Tuanku Bainun, 48, Jalan Tun Mohd Fuad, Taman Tun Dr Ismail, Kuala Lumpur, 60000 (MY). **PALANIVEL, Shanmugavel;** c/o BoomGrow Productions Sdn Bhd, Unit 1-2, Level 1, Office Block Pusat Kreatif Kanak-Kanak Tuanku Bainun, 48, Jalan Tun Mohd Fuad, Taman Tun Dr Ismail, Kuala Lumpur, 60000 (MY).
- (74) **Agent: TAN, Hing Hong;** IP Genesis Sdn Bhd, A1-10-08, Arcoris Mont Kiara, No. 10, Jalan Kiara, Mont Kiara, Kuala Lumpur, 50480 (MY).
- (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, 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).

(54) **Title:** A SYSTEM OF FARMING IN AN INDOOR ENVIRONMENT

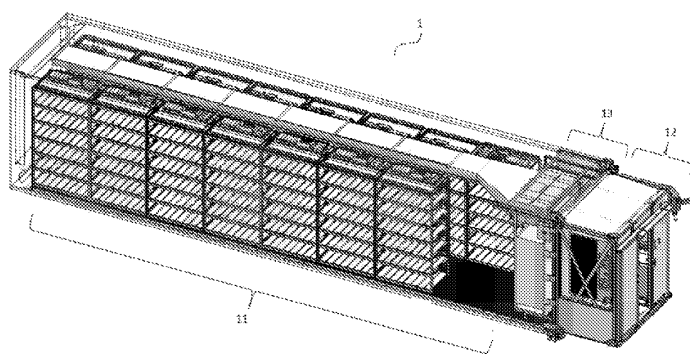


Figure 1

(57) **Abstract:** The invention relates to a system (1) of farming in an indoor environment, in which the system (1) comprises a housing means having first and second compartments (11, 12), at least a racking means (20) arranged within the first compartment (11) of the housing means to position crops, a first farming means (30) arranged within the second compartment (12) of the housing means for the preparation of nutrients and water for the crops, a second farming means arranged within the housing means to provide essential components to the crops, and a third farming means arranged within the housing means to control and monitor conditions of the indoor environment and the crops.

[Continued on next page]



WO 2022/055341 A1

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *of inventorship (Rule 4.17(iv))*

Published:

- *with international search report (Art. 21(3))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*