

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
02 March 2023 (02.03.2023)



(10) International Publication Number
WO 2023/027586 A1

- (51) International Patent Classification:
A01G 9/24 (2006.01)
- (21) International Application Number:
PCT/NL2022/050487
- (22) International Filing Date:
25 August 2022 (25.08.2022)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
2029049 25 August 2021 (25.08.2021) NL
- (71) Applicant: **PRIVA HOLDING B.V.** [NL/NL]; Zijlweg 3,
2678 LC De Lier (NL).
- (72) Inventors: **RIESWIJK, Theodorus Adrianus**; c/o Zijl-
weg 3, 2678 LC De Lier (NL). **WESTRA, Jan Johannes**
Wybe; c/o Zijlweg 3, 2678 LC De Lier (NL).
- (74) Agent: **WITMANS, H.A.**; V.O., P.O. Box 87930, 2508 DH
Den Haag (NL).

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))

(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,

(54) Title: METHOD AND SYSTEM FOR CONTROLLING THE CULTIVATION OF CROPS IN A CROP CULTIVATION
SYSTEM

(57) Abstract: The disclosure relates to a method of controlling a crop cultivation system (1), comprising creating an ontology (200) with a plurality of objects and relations between the objects. The objects include at least a space object (220) representing a cultivation space (11) of the cultivation system (1) for cultivating crops (2) therein, a crop object (210) representing one or more crops (2) for being cultivated in the cultivation space (11), one or more actuator objects representing one or more actuators of the cultivation system for use in cultivating the one or more crops (2), and a source object representing a source of the cultivation system. The method further comprises determining, based on the ontology (200), one or more control objectives for controlling the cultivation system (1) using the one or more actuators.

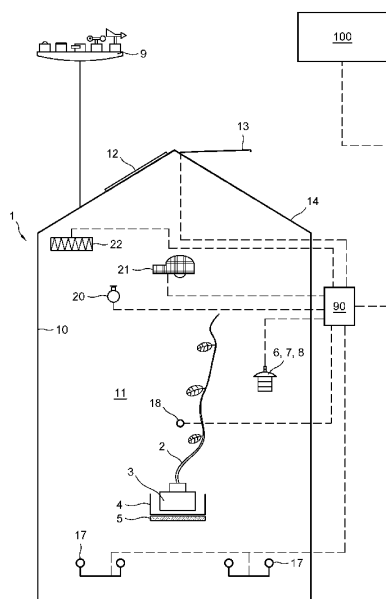


FIG. 1

WO 2023/027586 A1