

- (51) International Patent Classification:
A01G 9/029 (2018.01)
- (21) International Application Number:
PCT/US2024/044103
- (22) International Filing Date:
28 August 2024 (28.08.2024)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
63/540,760 27 September 2023 (27.09.2023) US
- (71) Applicant: **HELIPONIX, LLC** [US/US]; 421 E. Sycamore Street, Evansville, IN 47713 (US).
- (72) Inventors: **MASSEY, Scott, Thomas**; c/o Heliponix, LLC, 421 E. Sycamore Street, Evansville, IN 47713 (US). **BALL, Ivan, Lee**; c/o Heliponix, LLC, 421 E. Sycamore Street, Evansville, IN 47713 (US). **NELSON, Sven, Kirshnan**; c/o Heliponix, LLC, 421 E. Sycamore Street, Evansville, IN 47713 (US).
- (74) Agent: **EISENBERG, Andrew, L.** et al.; Lee & Hayes, P.C., 601 W. Riverside Ave, Suite 1400, Spokane, WA 99201 (US).

- (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, MG, MK, MN, MU, 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, SC, 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).
- Published:
— *without international search report and to be republished upon receipt of that report (Rule 48.2(g))*

(54) Title: SEED CARTRIDGE ASSEMBLY

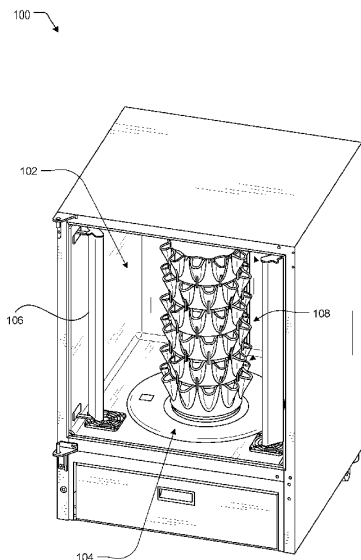


FIG. 1

(57) Abstract: A seed cartridge assembly for use in an enclosure growing environment. In some cases, the seed cartridge assembly may include a lid or cover that may be opened prior to insertion into a slot associated with the enclosure growing environment. The cartridges may include a plurality of openings or slits such that the cartridges may encourage downward root growth and provide proper drainage.