



- | | |
|--|--|
| <p>(51) International Patent Classification:
 <i>A01G 9/24</i> (2006.01) <i>A01G 7/04</i> (2006.01)
 <i>A01G 18/69</i> (2018.01) <i>A01G 18/00</i> (2018.01)
 <i>A01G 7/00</i> (2006.01) <i>G01N 21/00</i> (2006.01)</p> | <p>(72) Inventors: LIMOGE, Damas; 2251 Front Street, Suite 110, Cuyahoga Falls, OH 44223 (US). PINSKIY, Vadim; 2251 Front Street, Suite 110, Cuyahoga Falls, OH 44223 (US). MUSSELMAN, Parker; 2251 Front Street, Suite 110, Cuyahoga Falls, OH 44223 (US).</p> |
| <p>(21) International Application Number:
 PCT/US2021/035686</p> | <p>(74) Agent: WOLFE, Joseph et al.; DLA Piper LLP US, 33 Arch Street, 26th Floor, Boston, MA 02110 (US).</p> |
| <p>(22) International Filing Date:
 03 June 2021 (03.06.2021)</p> | <p>(81) Designated States (<i>unless otherwise indicated, for every kind of national protection available</i>): 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.</p> |
| <p>(25) Filing Language:
 English</p> | |
| <p>(26) Publication Language:
 English</p> | |
| <p>(30) Priority Data:
 63/034,027 03 June 2020 (03.06.2020) US</p> | |
| <p>(71) Applicant: NANOTRONICS IMAGING, INC. [US/US]; 2251 Front Street, Suite 110, Cuyahoga Falls, Ohio 44223 (US).</p> | |

(54) Title: CONTROLLED GROWTH SYSTEM FOR BIOLOGICALS

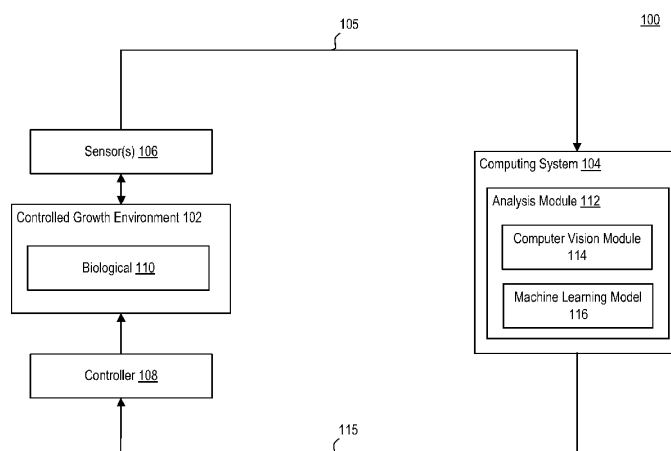


FIG. 1

(57) Abstract: A controlled growth system is provided herein. The controlled growth system includes a controlled growth environment, a controller, a sensor, and a computing system. The controlled growth environment is configured to grow a biologic. The controller is in communication with the controlled growth environment. The controller is configured to manage process parameters of the controlled growth environment. The sensor is configured to monitor the biologic during a growth process. The computing system is in communication with the sensor and the controller. The computing system is programmed to perform operations for achieving a desired final quality metric for the biologic.

(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))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*