

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
10 August 2023 (10.08.2023)



(10) International Publication Number
WO 2023/150794 A2

(51) International Patent Classification:
F17C 5/02 (2006.01)

(21) International Application Number:
PCT/US2023/062140

(22) International Filing Date:
07 February 2023 (07.02.2023)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
63/307,614 07 February 2022 (07.02.2022) US

(71) Applicant: **SEXTON BIOTECHNOLOGIES, INC.**
[US/US]; 1102 Indiana Avenue, Indianapolis, Indiana
46202 (US).

(72) Inventors: **SHIELDS, Adam**; 511 Stony Creek Cir., Noblesville, Indiana 46060 (US). **FISCHER JR., Frank J.**; 4901 South Old SR#37, Bloomington, Indiana 47401 (US). **PALLOTTA, Michael**; 1297 Thistlewood Ct., Carmel, Indiana 46032 (US). **WERNER, Sean**; 3338 Devereaux Dr., Indianapolis, Indiana 46228 (US).

(74) Agent: **COVIELLO, Garth E.** et al.; 118 North Tioga Street, Suite 400, Ithaca, New York 14850 (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, 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, 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: CRYOGENIC STORAGE CONTAINER

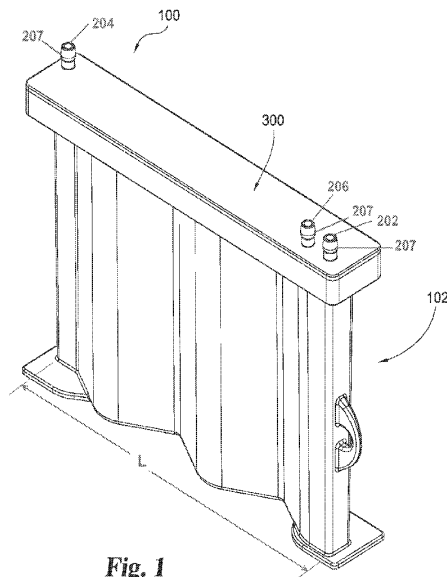


Fig. 1

(57) Abstract: Containers for cryopreservation of biological material are disclosed. Each container is configured to provide a substantially consistent freeze profile throughout a chamber of the container. Specific embodiments include containers having a uniform dimension between two opposing walls defining the chamber, and containers wherein a ratio of a sum of the interior surface areas to the volume of the chamber is at or between 1 to 5 and 2 to 5.

WO 2023/150794 A2