



US0D1088266S

(12) **United States Design Patent** (10) **Patent No.:** **US D1,088,266 S**
Pierson (45) **Date of Patent:** **** Aug. 12, 2025**

(54) **BIOREACTOR VESSEL**

(71) Applicant: **Limula SA**, La Tour-de-Peilz (CH)

(72) Inventor: **Yann Pierson**, La Tour-de-Peilz (CH)

(**) Term: **15 Years**

(21) Appl. No.: **35/519,714**

(22) Filed: **Dec. 28, 2023**

(80) **Hague Agreement Data**

Int. Filing Date: **Dec. 28, 2023**

Int. Reg. No.: **DM/234334**

Int. Reg. Date: **Dec. 28, 2023**

Int. Reg. Pub. Date: **Jan. 19, 2024**

(51) **LOC (15) Cl.** **24-02**

(52) **U.S. Cl.**

USPC **D24/224**

(58) **Field of Classification Search**

USPC D24/121, 186, 216, 219, 224–227, 229,
D24/231, 232; D10/81

CPC C12M 21/02; C12M 21/04; C12M 21/06;
C12M 21/08; C12M 21/10; C12M 21/12;
F17C 2005/0394; F17C 2005/0397; F17C
2005/0338; F17C 5/06; B01J 3/03; B01F
13/02

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D48,159 S * 11/1915 Newcome D24/117
1,879,820 A * 9/1932 Perry A47G 19/2205
215/382
D340,993 S * 11/1993 Bellotti D7/300
D580,068 S * 11/2008 Shigesada D24/216
D681,384 S * 5/2013 Fitzpatrick A47G 19/12
D7/300
D684,273 S * 6/2013 Tajima B65D 7/12
D24/224

9,144,635 B1 * 9/2015 Kaplan A61M 1/682
D769,755 S * 10/2016 Bargh D24/224
D785,195 S * 4/2017 Owen D24/224
D857,915 S * 8/2019 Sakai D24/224
D869,651 S * 12/2019 Du D24/115
D905,868 S * 12/2020 Rowe D24/232
D986,496 S * 5/2023 Anthony D27/196
2021/0246413 A1 * 8/2021 Pierson B04B 5/0421

FOREIGN PATENT DOCUMENTS

JP D2012-14133 * 6/2013

OTHER PUBLICATIONS

Limula on the future of cell therapies: Closed, automated, decentralized. Online, published date Jan. 24, 2022. Retrieved on Sep. 9, 2024 from URL: <https://www.bioprocessintl.com/therapeutic-class/limula-on-the-future-of-cell-therapies-closed-automated-decentralized>.*

* cited by examiner

Primary Examiner — Omeed Agilee

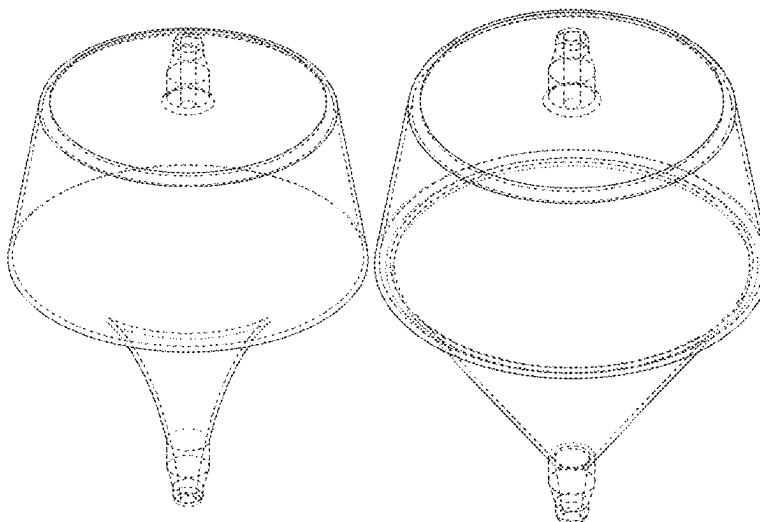
(57) **CLAIM**

The ornamental design for a bioreactor vessel as shown and described.

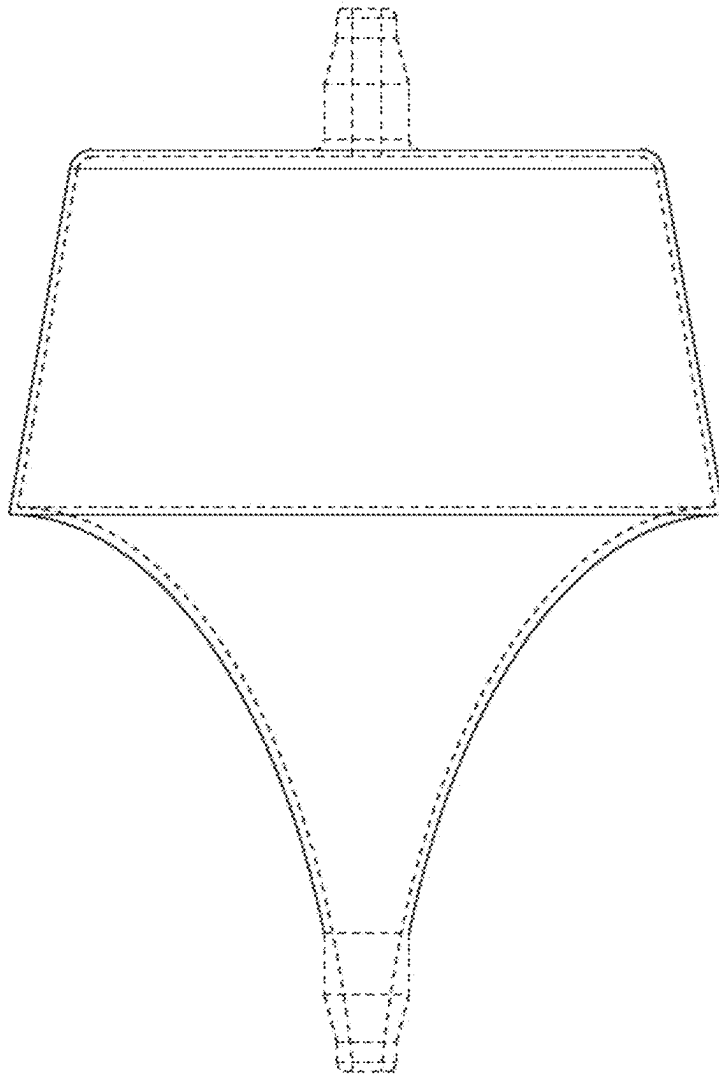
DESCRIPTION

Figure 2.1 is a side view of a first embodiment of a bioreactor vessel, embodying my new design; Figure 2.2 is a top view thereof; Figure 2.3 is a bottom view thereof; and Figure 2.4 is an isometric view thereof. Figure 3.1 is a side view of a second embodiment of a bioreactor vessel, embodying my new design; Figure 3.2 is a top view thereof; Figure 3.3 is a bottom view thereof; and Figure 3.4 is an isometric view thereof. The broken lines in the drawings depict portions of the bioreactor vessel that form no part of the claimed design.

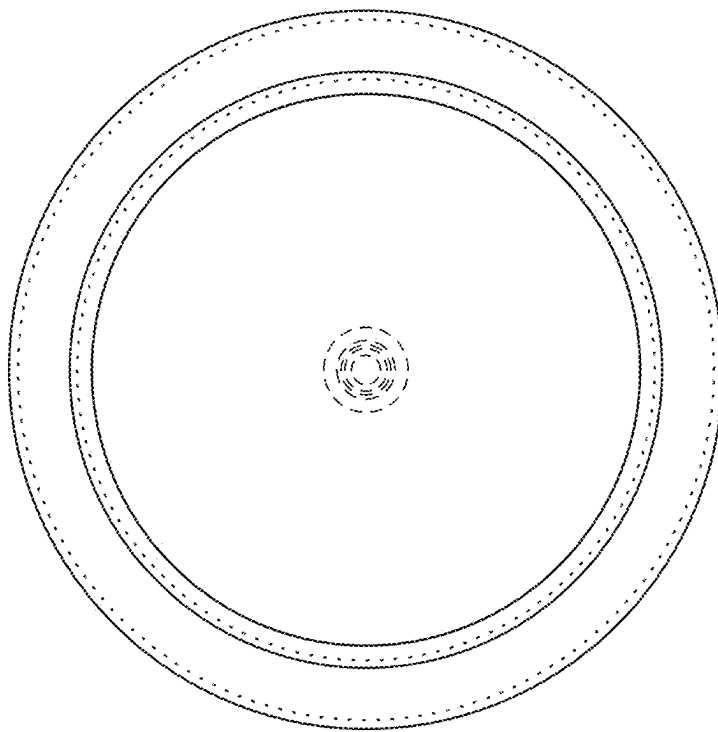
1 Claim, 6 Drawing Sheets



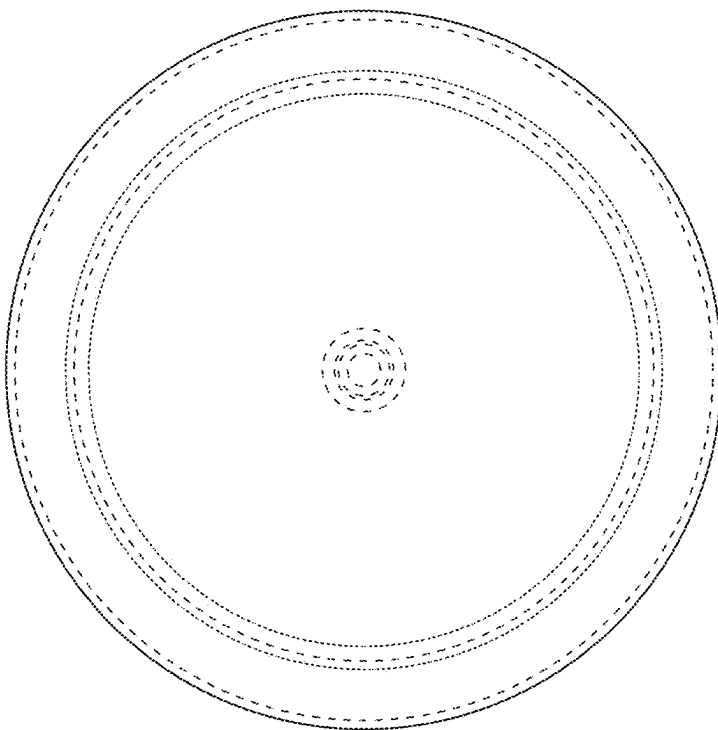
2.1



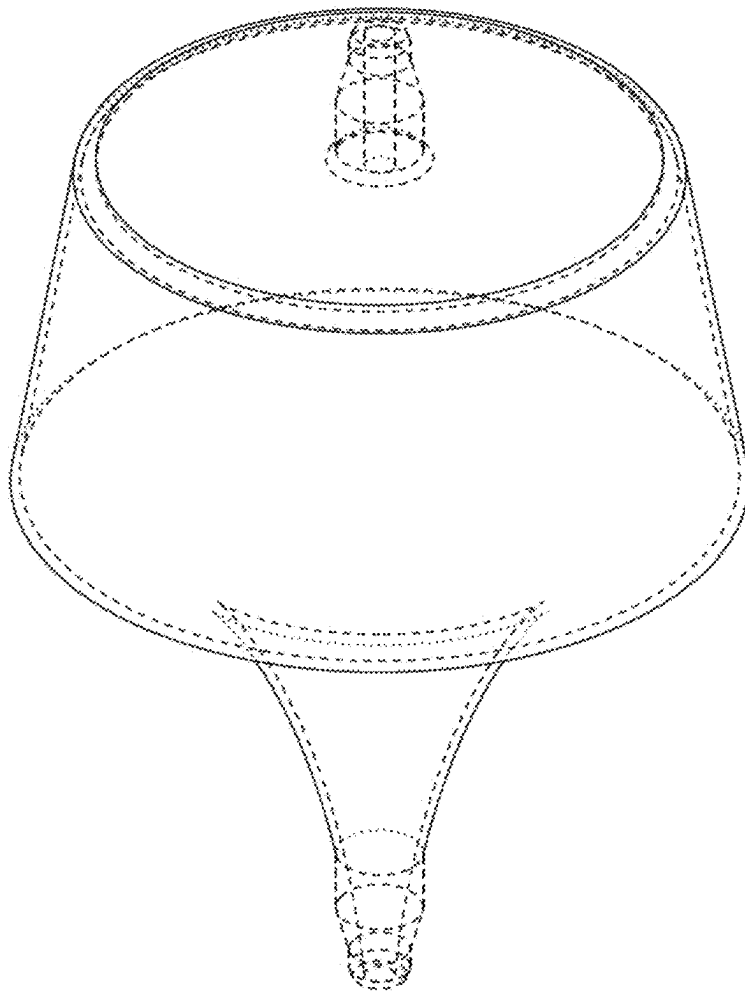
2.2



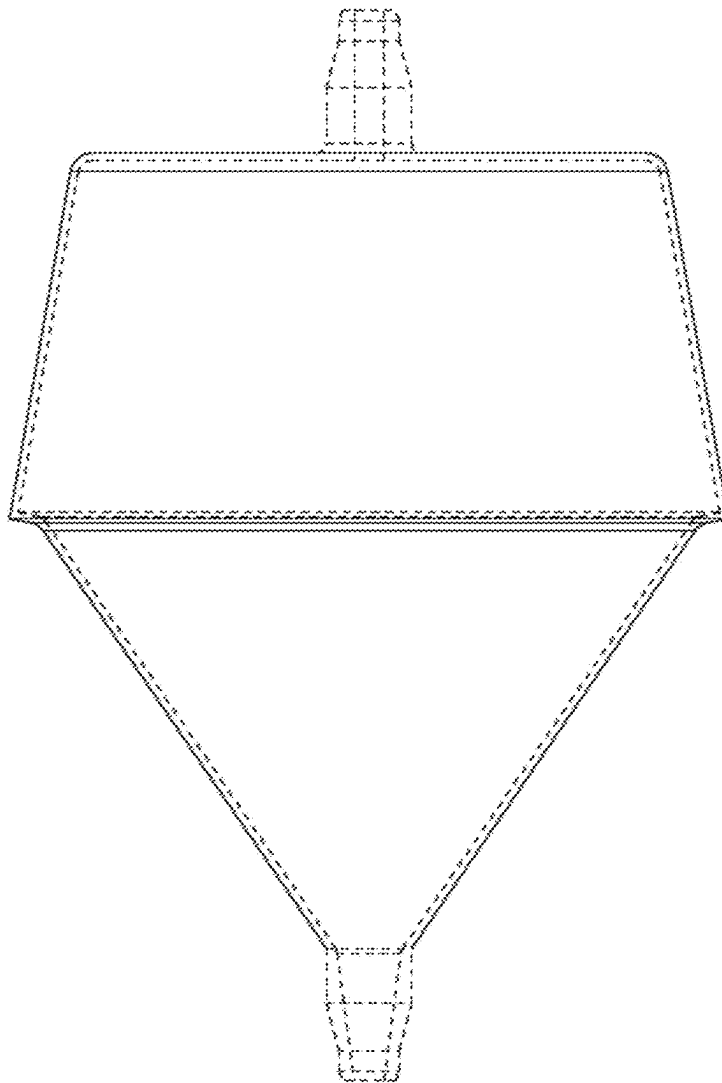
2.3



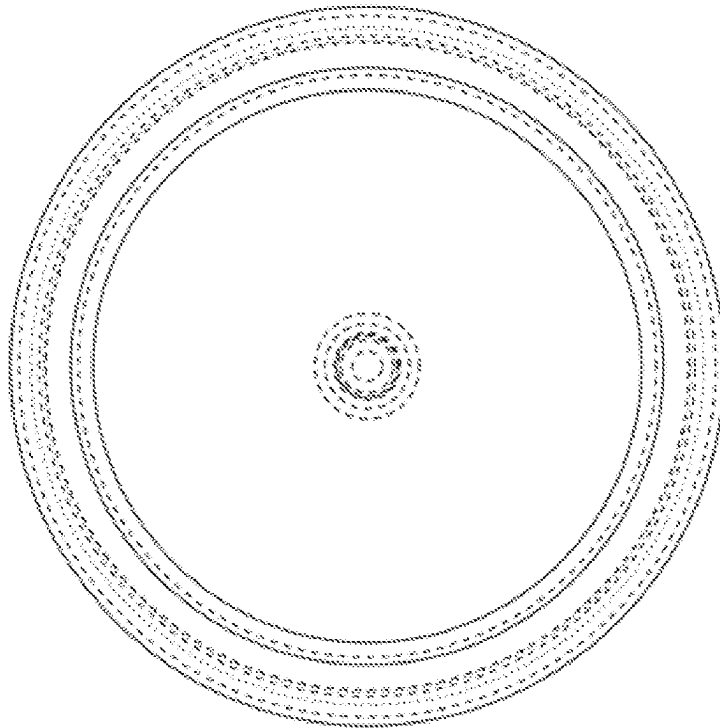
2.4



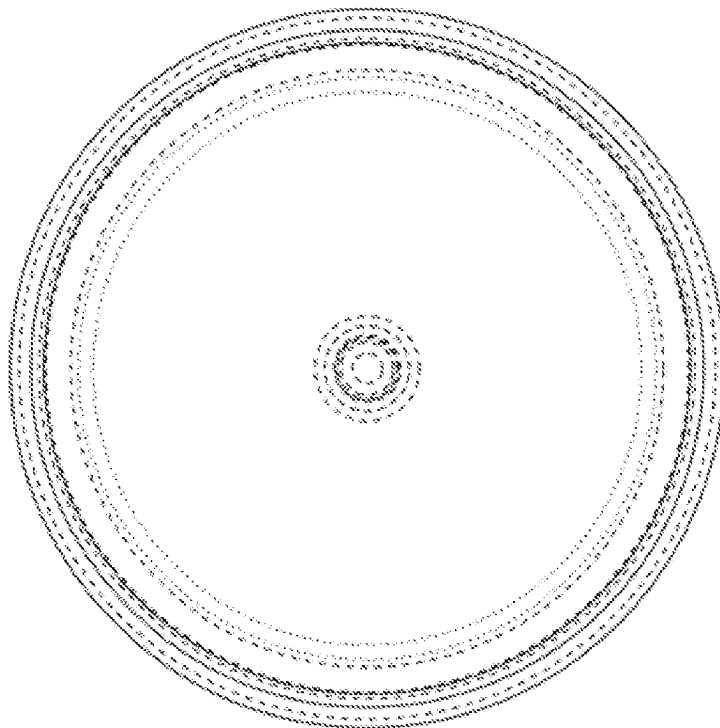
3.1



3.2



3.3



3.4

