



US00D827765S

(12) **United States Design Patent** (10) **Patent No.:** **US D827,765 S**
Ward (45) **Date of Patent:** **** Sep. 4, 2018**

(54) **MOVING BED BIOFILM REACTOR MEDIA**
(71) Applicant: **Stuart J Ward**, Camas, WA (US)
(72) Inventor: **Stuart J Ward**, Camas, WA (US)
(**) Term: **14 Years**
(21) Appl. No.: **29/522,284**
(22) Filed: **Mar. 30, 2015**
(51) **LOC (11) Cl.** **23-01**
(52) **U.S. Cl.**
USPC **D23/207; D24/224**
(58) **Field of Classification Search**
USPC D23/207, 209, 269; 261/94, 98, DIG. 72;
210/150, 151, 287, 335, 616-618;
435/299.1; 428/116, 118; 446/125, 126,
446/128; D24/224
CPC B01J 19/30; B01J 19/32; B01J 19/305;
B65D 41/0414; C02F 3/04; C02F 3/06;
C02F 3/08; C02F 3/082; C02F 3/085;
C02F 3/10; C02F 3/101; C02F 3/208;
A01N 25/34
See application file for complete search history.

7,189,323 B2 * 3/2007 Lofqvist C02F 3/10
210/150
D611,120 S * 3/2010 Brockdorff D23/207
D611,568 S * 3/2010 Westrum D23/207
D612,007 S * 3/2010 Brockdorff D23/207
D618,760 S * 6/2010 Flournoy D23/207
7,775,507 B2 * 8/2010 Niknafs B01J 19/30
261/94
7,862,013 B2 * 1/2011 Miller B01J 19/30
261/94
D645,116 S 9/2011 McKean et al.
D648,821 S 11/2011 McKean et al.
8,241,717 B1 * 8/2012 Anderson B01J 19/30
261/94
8,524,076 B2 * 9/2013 Yang C02F 3/101
210/150
D696,744 S * 12/2013 Barrett D23/207
D697,168 S * 1/2014 Rusten D23/207
D697,169 S * 1/2014 Rusten D23/207
D785,132 S * 4/2017 Jackson D23/209

(Continued)

Primary Examiner — Ian Simmons
Assistant Examiner — Mark Cavanna
(74) *Attorney, Agent, or Firm* — Mark E. Beatty;
Rylander & Associates PC

(57) **CLAIM**

The ornamental design for a moving bed biofilm reactor media, as shown and described.

DESCRIPTION

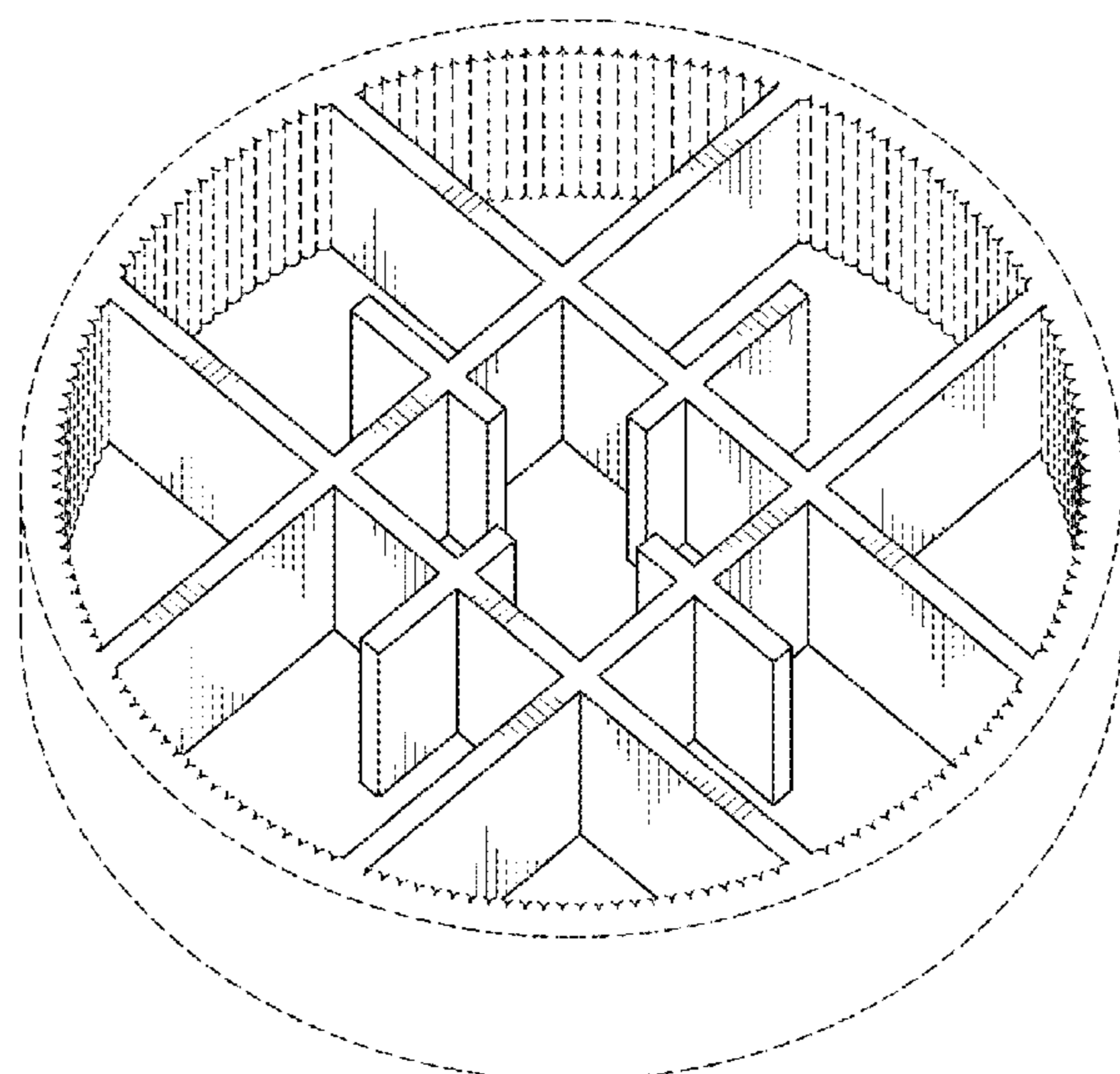
FIG. 1 is a front perspective view of a moving bed biofilm reactor media showing my new ornamental design. FIG. 2 shows bottom view of a first embodiment of the design; and, FIG. 3 shows a top view of a first embodiment of the design. The broken lines are included for the purpose of illustrating portions of the moving bed biofilm reactor media that form no part of the claimed design.

1 Claim, 3 Drawing Sheets

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,957,931 A * 5/1976 Ellis B01J 19/30
210/150
5,779,886 A * 7/1998 Couture C02F 3/082
210/150
6,036,863 A * 3/2000 Brockdorff C02F 3/085
210/150
6,126,829 A * 10/2000 Gunnarsson C02F 3/10
210/150
D465,257 S * 11/2002 Van Olst C02F 3/10
D23/207
6,889,963 B2 * 5/2005 Niknafs B01J 19/30
261/94



(56)

References Cited

U.S. PATENT DOCUMENTS

2004/0182762 A1* 9/2004 Sonogo B65D 41/0414
210/150
2009/0001012 A1* 1/2009 Kepner A01N 25/34
210/287
2014/0083941 A1* 3/2014 Le Tallec C02F 3/10
210/618
2014/0166574 A1* 6/2014 Fassbender C02F 3/04
210/615
2016/0002078 A1* 1/2016 Magen C02F 3/08
210/615
2016/0214876 A1* 7/2016 Clement C02F 3/02
2016/0376175 A1* 12/2016 Welander B01J 19/305
435/299.1
2017/0015572 A1* 1/2017 Casey C02F 3/208

* cited by examiner

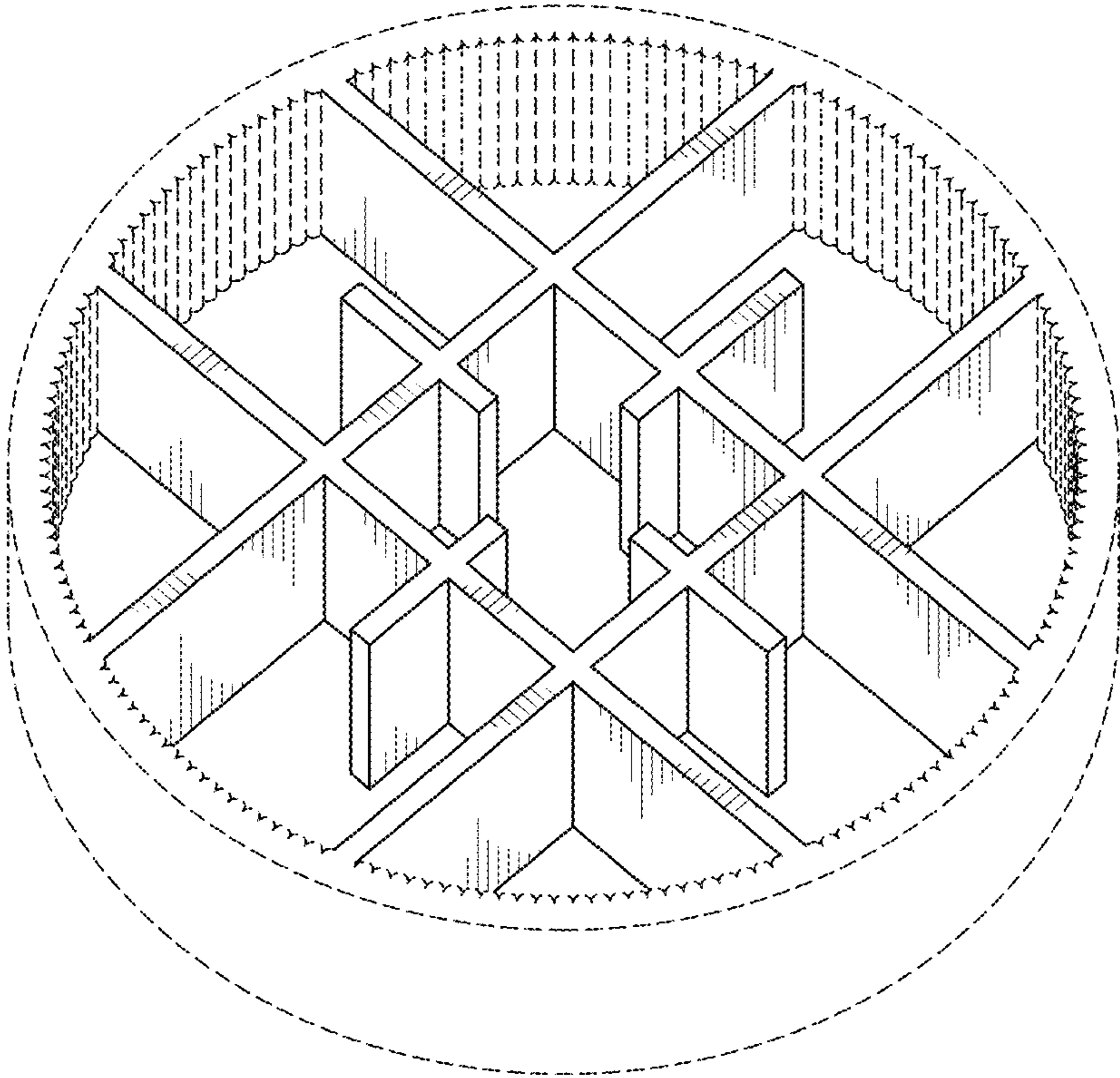


FIG. 1

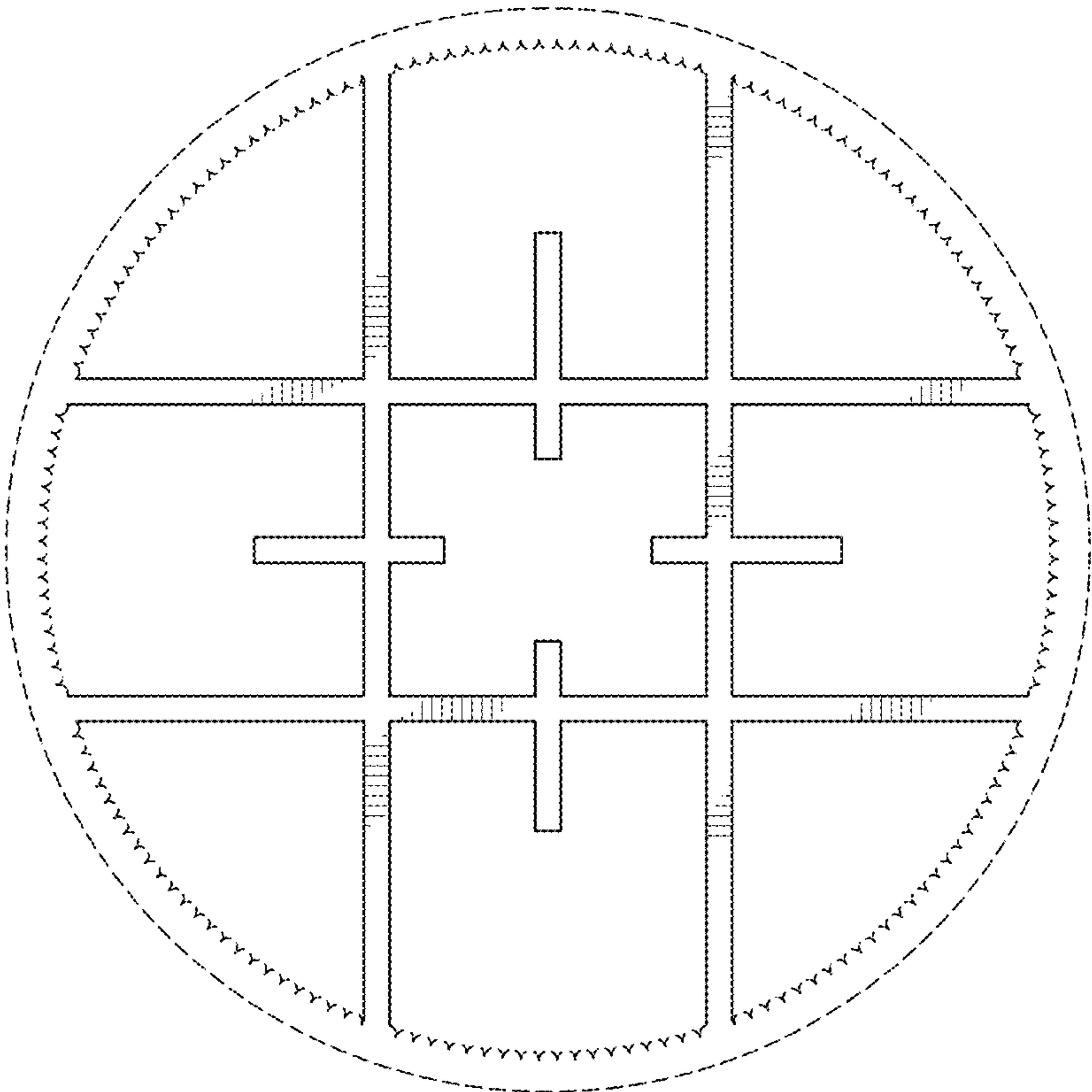


FIG. 2

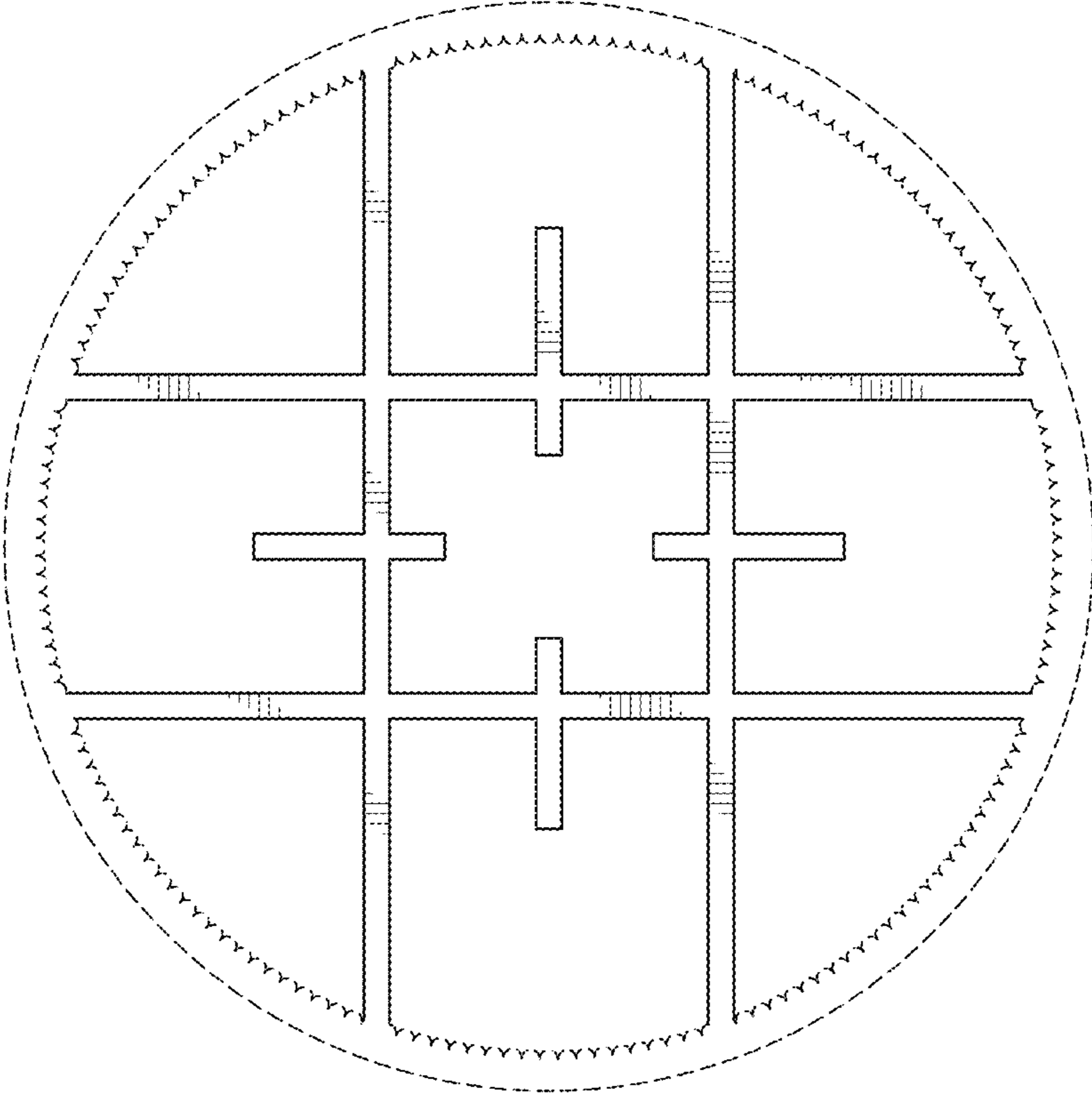


FIG.3