



US00D832324S

(12) **United States Design Patent**
Gergatz

(10) **Patent No.:** **US D832,324 S**
(45) **Date of Patent:** **** Oct. 30, 2018**

(54) **GRADING CYLINDER**
(71) Applicant: **ArrowCorp Inc.,** Winnipeg (CA)
(72) Inventor: **Richard Joseph Gergatz,** Stonewall (CA)
(73) Assignee: **ArrowCorp Inc.,** Winnipeg (CA)
(**) Term: **15 Years**

4,023,835 A * 5/1977 Ewing E03F 3/04
138/130
D245,750 S * 9/1977 Maclean D7/591
4,135,015 A * 1/1979 Boyden, Jr. A61F 5/04
428/373
4,193,874 A 3/1980 Gerteis
4,269,711 A 5/1981 Gerteis
4,469,230 A 9/1984 Gorlitz et al.
4,586,610 A * 5/1986 Gandolfo G09F 3/0295
206/345

(Continued)

(21) Appl. No.: **29/605,952**

FOREIGN PATENT DOCUMENTS

(22) Filed: **May 31, 2017**

EP 603816 A1 6/1994
EP 0739657 10/1996

(30) **Foreign Application Priority Data**

(Continued)

Jan. 16, 2017 (CA) 172569

(51) **LOC (11) Cl.** **15-03**

(52) **U.S. Cl.**
USPC **D15/147**

(58) **Field of Classification Search**
USPC D15/10, 11, 13, 28, 122, 124, 126, 138,
D15/147, 199; D14/217; D7/678,
D7/672-675, 381, 693
CPC B65D 19/0004; B65D 19/44; B65D
2519/00024; B65D 2519/00059; B65D
2519/00273; B65D 2519/00293; B65D
2519/00323; B65D 2519/00333; B65D
2519/00562; B65D 2519/00572; B65D
2519/00786; B65D 2519/00815; B65D
43/0235; B65D 85/68

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,841,299 A 1/1932 Rife
2,249,109 A 7/1941 Botimer
2,985,302 A 5/1961 Brands
3,612,273 A 10/1971 Pritchett
3,661,257 A 5/1972 Hall et al.

Primary Examiner — Mitchell I. Siegel

Assistant Examiner — Khawaja Anwar

(74) *Attorney, Agent, or Firm* — Banner & Witcoff, Ltd.

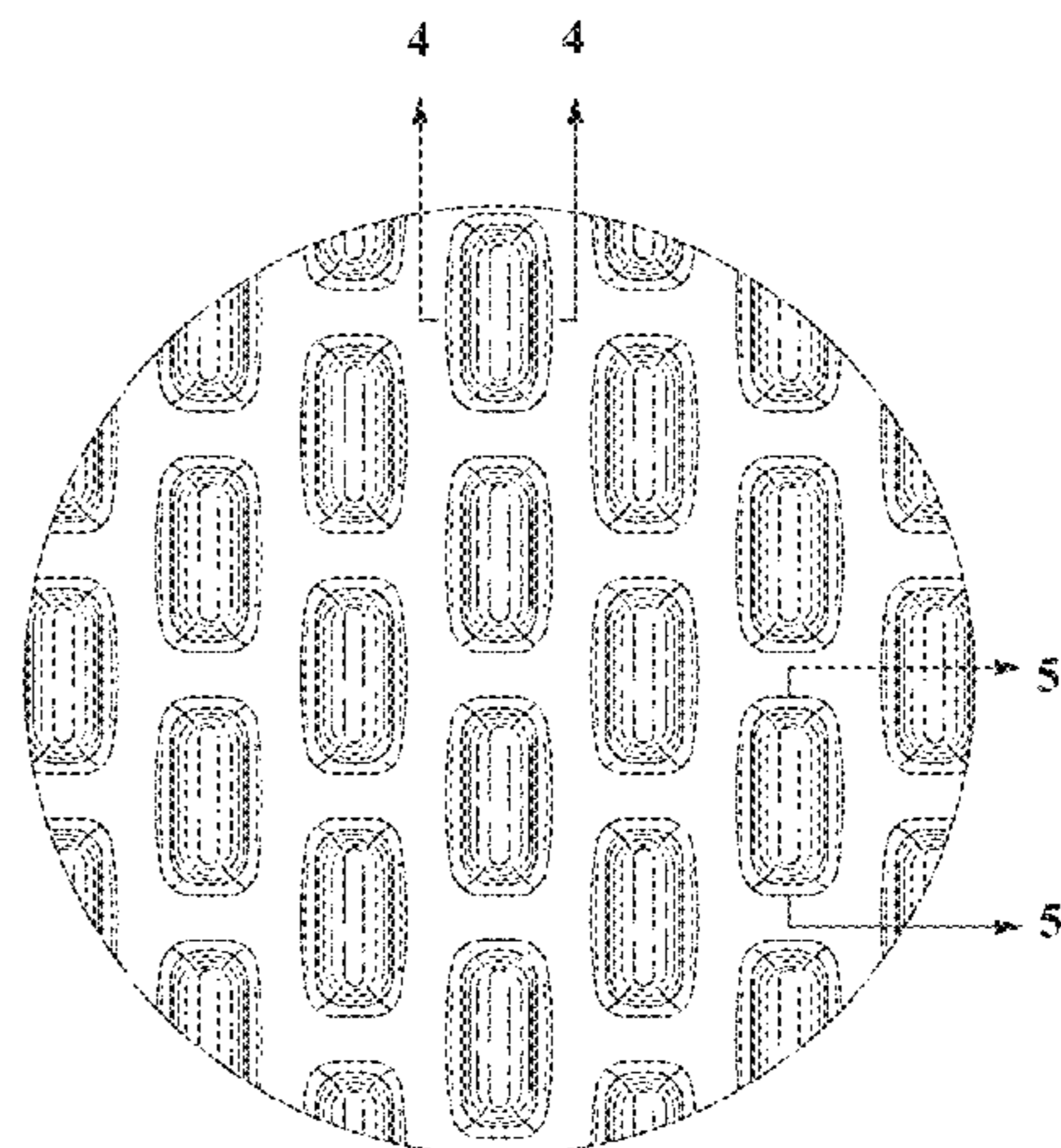
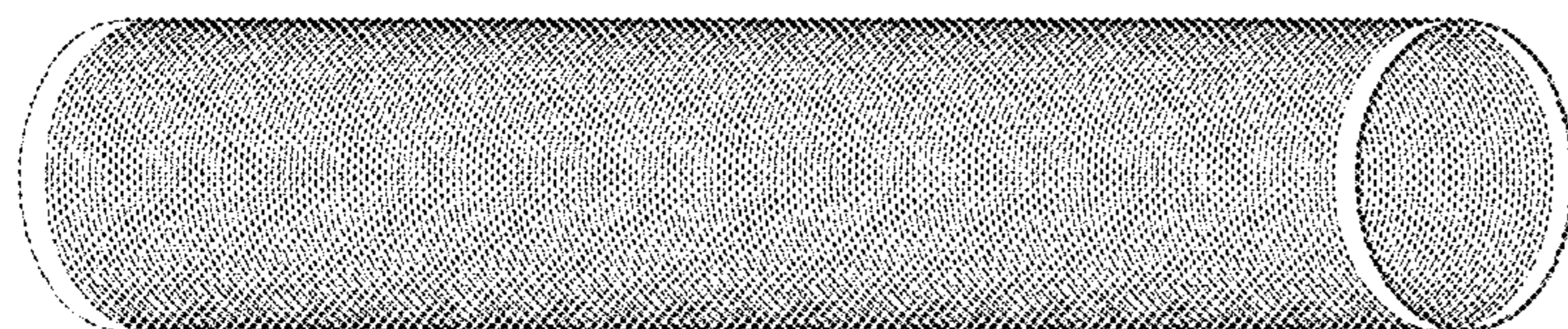
(57) **CLAIM**

The ornamental design for a grading cylinder, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a grading cylinder showing my new design;
FIG. 2 is a top plan view thereof, the bottom plan, front plan and rear plan views being mirror images thereof;
FIG. 3 is an enlarged view of a portion defined by the callout shown in FIG. 2;
FIG. 4 is a cross sectional view of a portion defined by the lines 4-4 shown in FIG. 3;
FIG. 5 is a cross sectional view of a portion defined by the lines 5-5 shown in FIG. 3;
FIG. 6 is a right side view of a grading cylinder, the left side view being a mirror image thereto; and,
FIG. 7 is an enlarged view of a portion defined by the callout shown in FIG. 6.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,785,761 A 11/1988 Greenbank
 4,927,528 A 5/1990 Doppstadt
 4,944,874 A 7/1990 Kobayashi et al.
 5,306,423 A 4/1994 Hultsch
 5,348,162 A 9/1994 Wroblewski
 5,373,948 A 12/1994 Nagaki
 5,398,814 A 3/1995 Sime
 5,848,628 A * 12/1998 Badalamenti A47H 1/02
 160/38
 5,860,531 A 1/1999 Satoru et al.
 5,921,400 A 7/1999 Judd
 D434,655 S * 12/2000 Haugh D9/434
 6,253,928 B1 7/2001 Weber
 D455,323 S * 4/2002 Mistretta D7/678
 D499,314 S * 12/2004 Wagner D7/670
 D568,119 S * 5/2008 Horton D7/682
 D687,017 S * 7/2013 Ashcraft D14/216
 D691,117 S * 10/2013 Silvera D14/213
 D693,652 S * 11/2013 Breit D7/678

D726,155 S * 4/2015 Cheng D14/216
 D748,074 S * 1/2016 Schmiedbauer D14/210
 D753,630 S * 4/2016 Kim D14/216
 D755,161 S * 5/2016 Brunner D14/216
 D781,408 S * 3/2017 Buzanowski D23/386
 D818,453 S * 5/2018 Stern D14/204
 2004/0251333 A1 12/2004 Arvidson et al.
 2007/0084760 A1 4/2007 Tse

FOREIGN PATENT DOCUMENTS

FR 800162 4/1936
 FR 2651694 3/1991
 GB 200000 7/1923
 GB 1571678 7/1980
 WO 8803444 5/1988
 WO 9008597 8/1990
 WO 9212808 8/1992
 WO 9965619 12/1999
 WO 03011483 A1 11/2003
 WO 05014186 2/2005

* cited by examiner

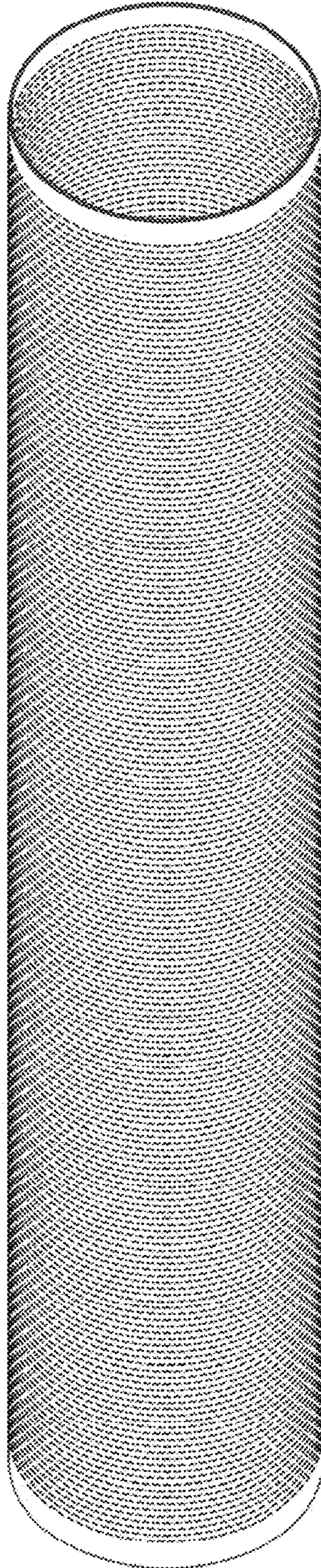


FIG. 1

FIG. 3

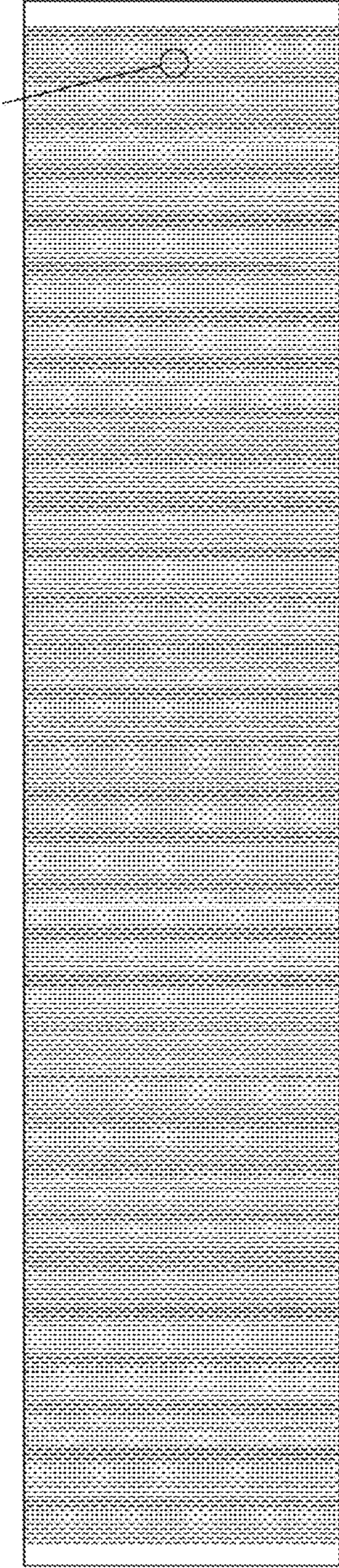


FIG. 2

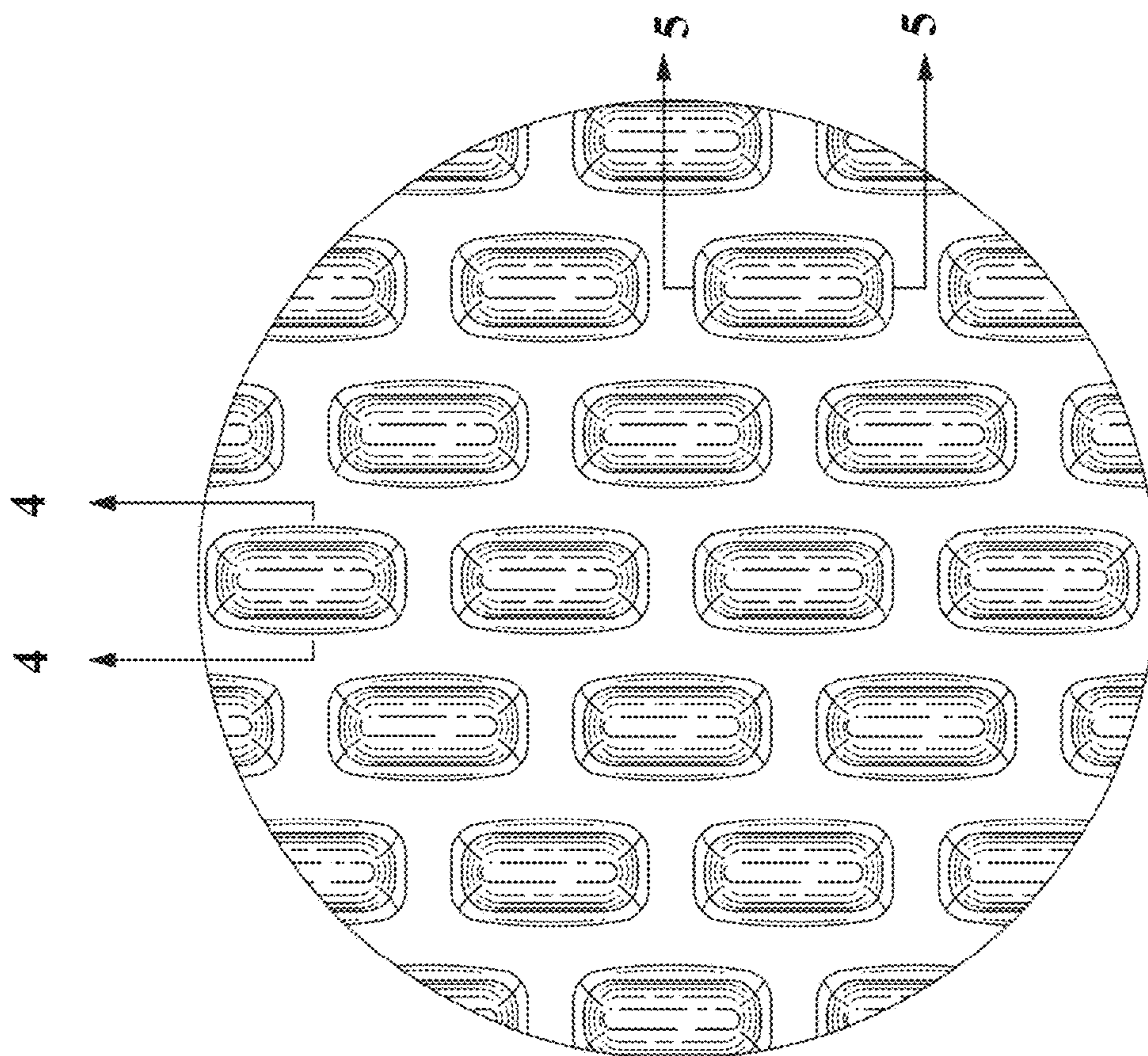


FIG. 3

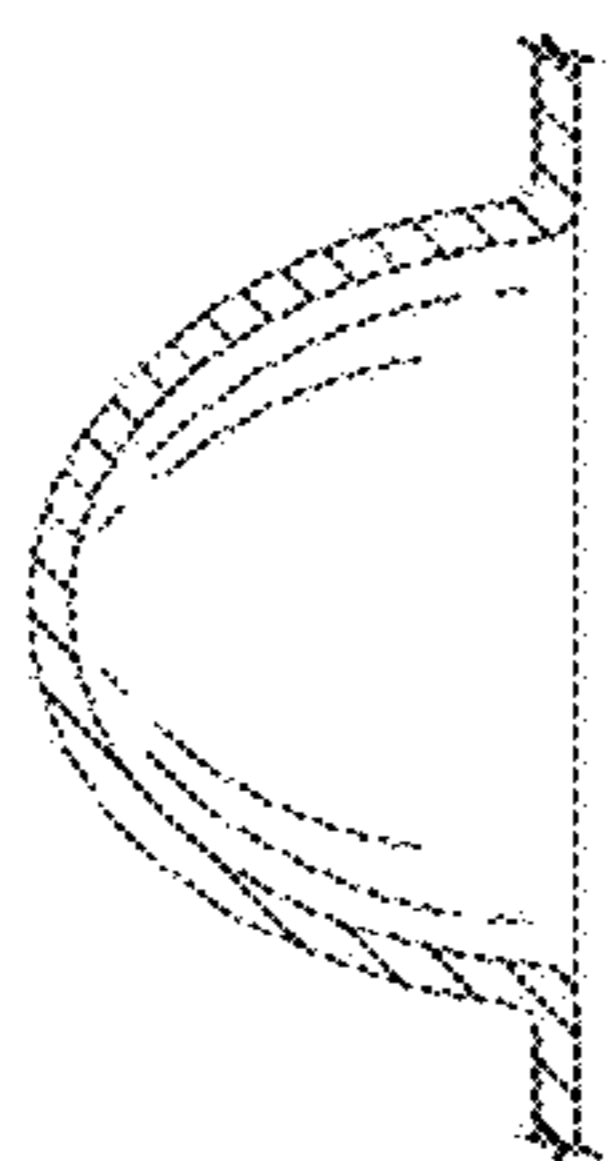


FIG. 4

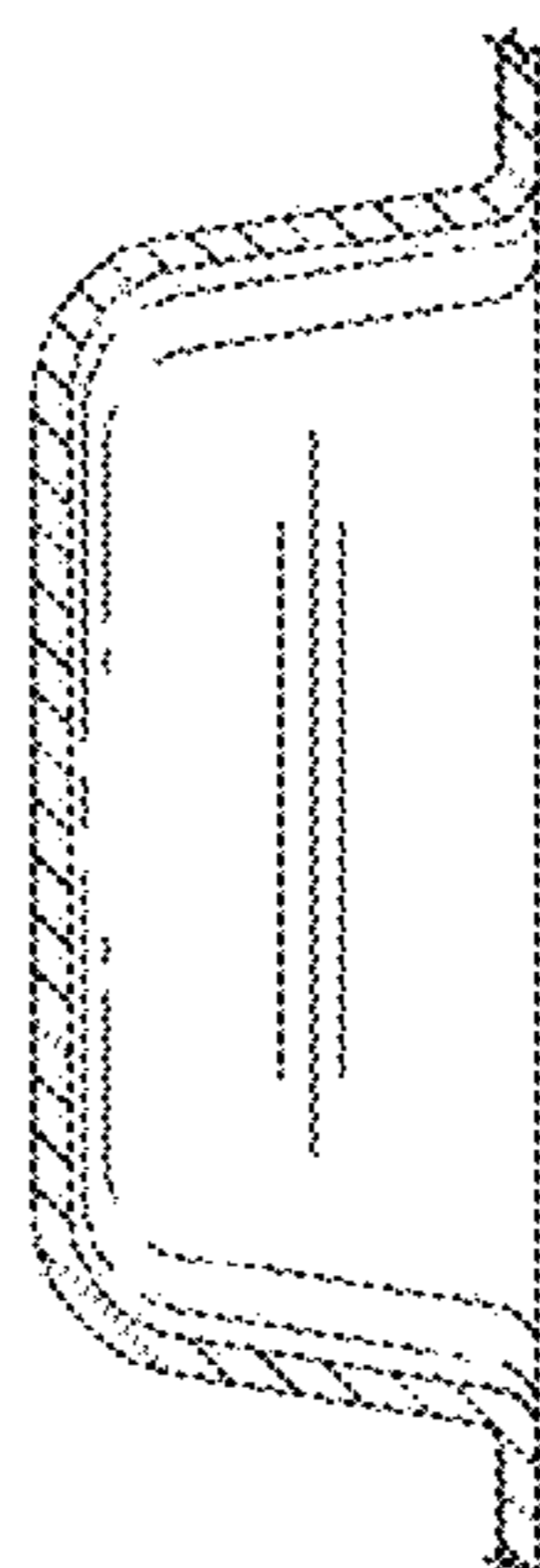


FIG. 5

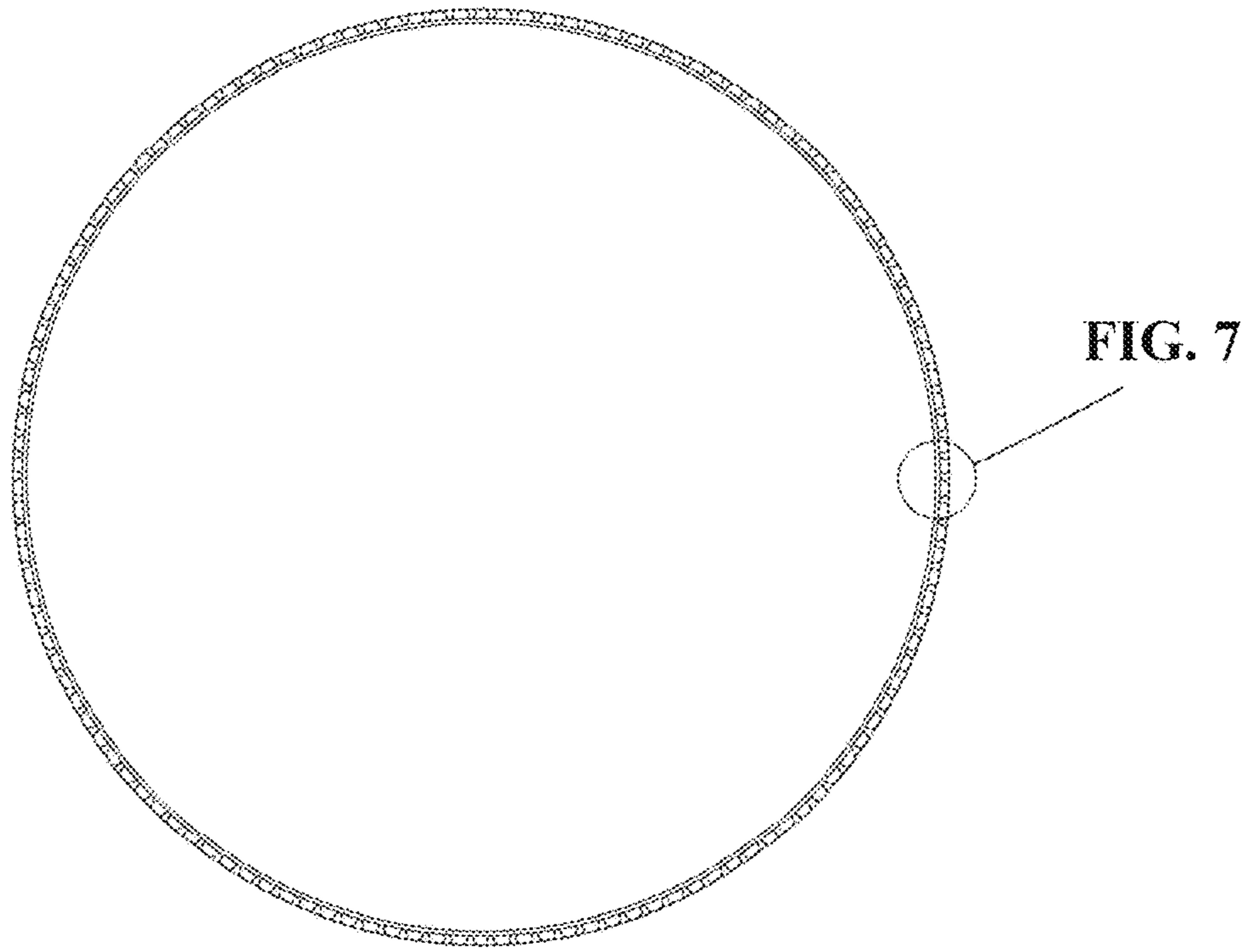


FIG. 6

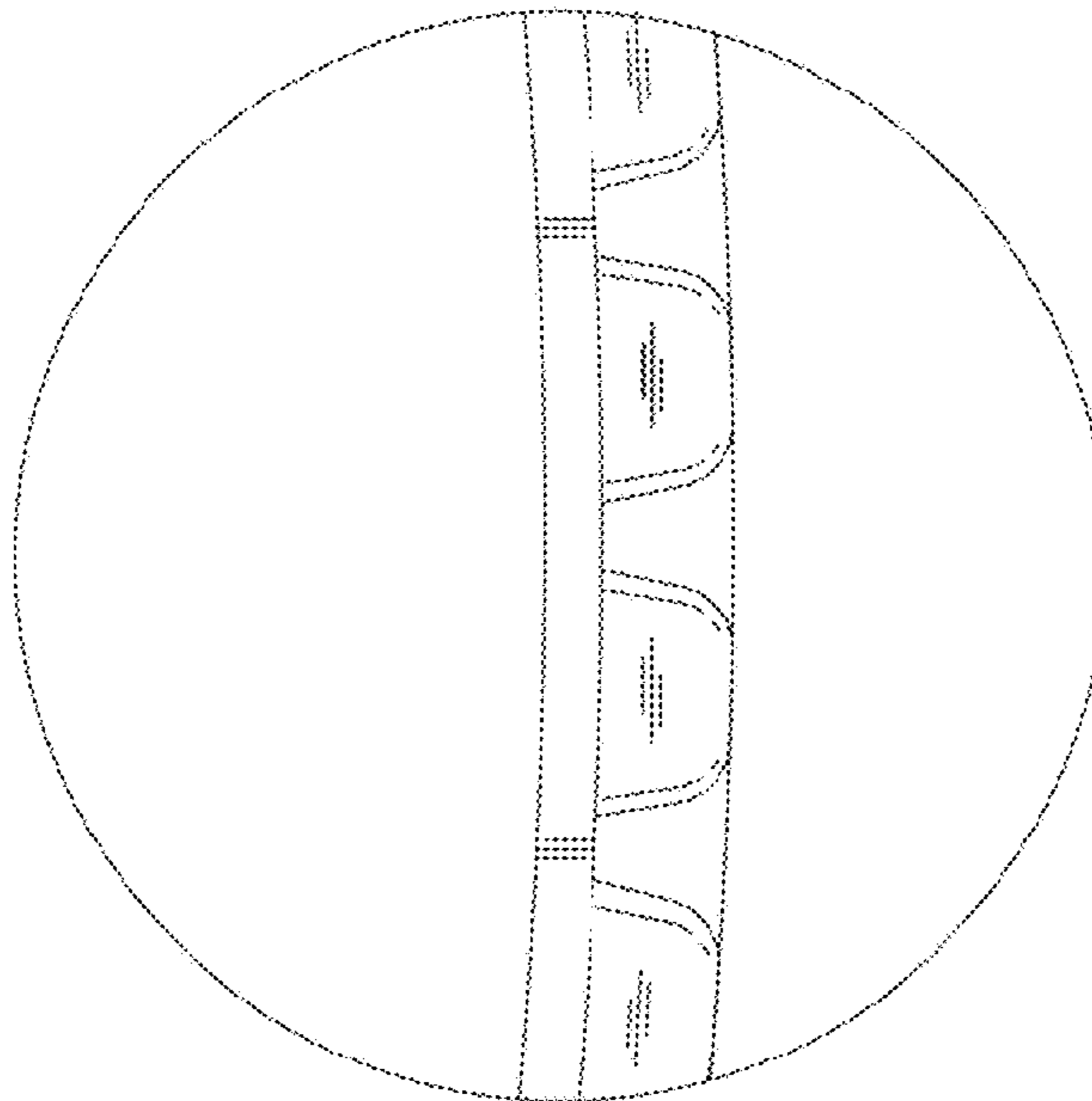


FIG. 7