



US0D1021584S

(12) **United States Design Patent** (10) **Patent No.: US D1,021,584 S**
Kukucka et al. (45) **Date of Patent: ** Apr. 9, 2024**

(54) **EXTRACTOR SOCKET**

- (71) Applicant: **GRIP HOLDINGS LLC**, Brandon, FL (US)
- (72) Inventors: **Paul Kukucka**, Brandon, FL (US);
Thomas Stefan Kukucka, Brandon, FL (US)
- (73) Assignee: **GRIP HOLDINGS LLC**, Brandon, FL (US)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/734,843**
- (22) Filed: **May 15, 2020**

Related U.S. Application Data

- (63) Continuation-in-part of application No. 29/711,251, filed on Oct. 29, 2019, now Pat. No. Des. 887,233, (Continued)

- (51) **LOC (14) Cl.** **08-05**
 - (52) **U.S. Cl.**
USPC **D8/29**
 - (58) **Field of Classification Search**
USPC D8/29
- (Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 4,006,660 A * 2/1977 Yamamoto F16B 23/003
411/405
 - 4,126,063 A 11/1978 Palmer
- (Continued)

FOREIGN PATENT DOCUMENTS

- AU 2017271372 5/2017
 - CN 101208181 A 6/2008
- (Continued)

OTHER PUBLICATIONS

Bolt Biter ¼ in. and ⅜ in. Drive SAE/Metric Impact Extraction Socket Set (8-Piece); GearWrench; Home Depot; Sep. 17, 2019; Accessed Apr. 25, 2023; URL :<https://www.homedepot.com/p/GEARWRENCH-Bolt-Biter-1-4-in-and-3-8-in-Drive-SAE-Metric-Impact-Extraction-Socket-Set-8-Piece-84782/310615213#overlay> (Year: 2019).*

(Continued)

Primary Examiner — Rachel A. Voorhies
Assistant Examiner — Benjamin D. Wannemacher

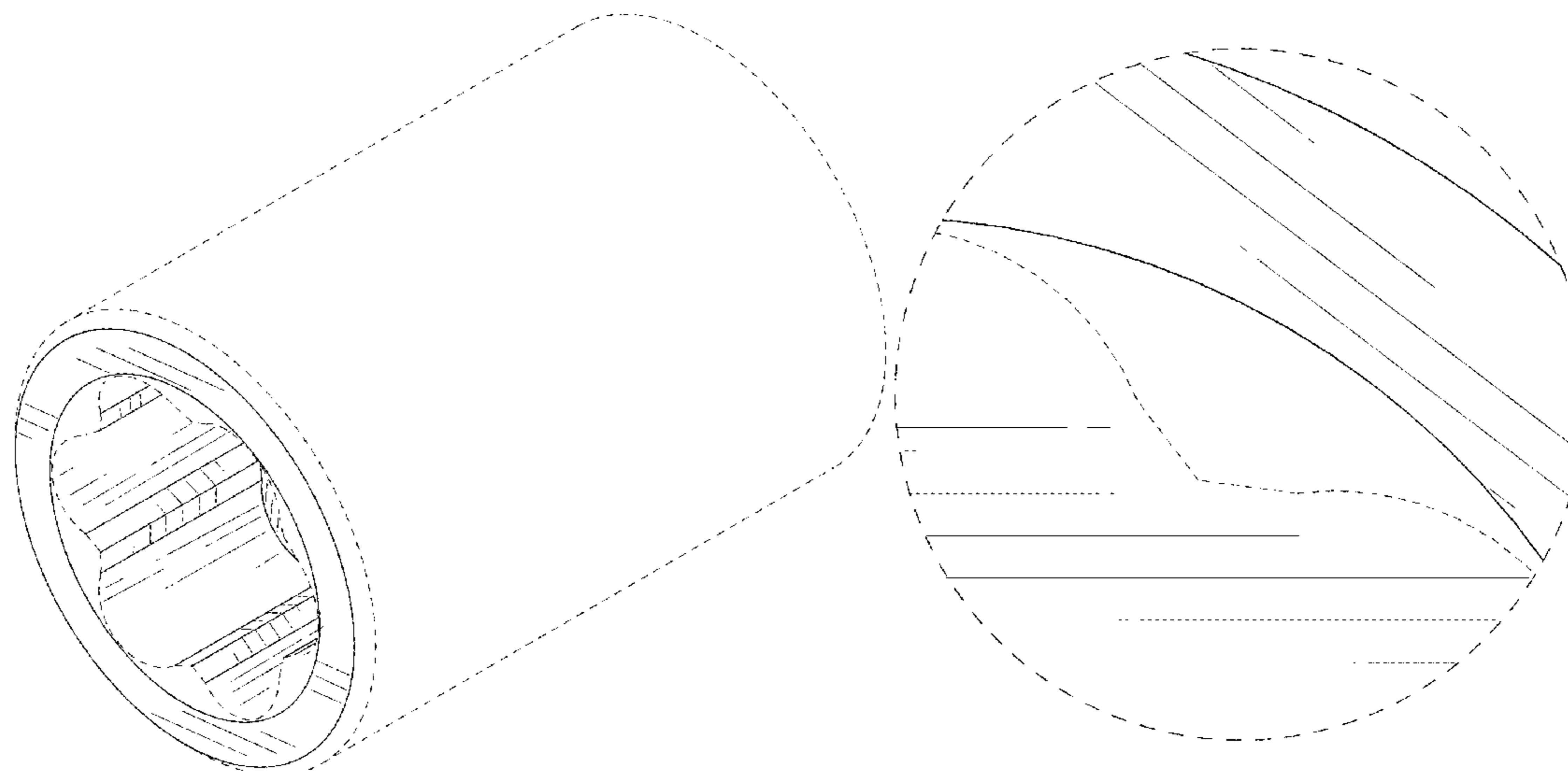
(57) **CLAIM**

The ornamental design for an extractor socket, as shown and described.

DESCRIPTION

FIG. 1 is a top-front-left perspective view of an extractor socket showing our new design;
 FIG. 2 is a bottom-rear-right perspective view thereof;
 FIG. 3 is a front elevational view thereof;
 FIG. 4 is a rear elevational view thereof;
 FIG. 5 is a right-side elevational view thereof;
 FIG. 6 is a left-side elevational view thereof;
 FIG. 7 is a top plan view thereof;
 FIG. 8 is a bottom plan view thereof;
 FIG. 9 is a cross-sectional view taken along line 9-9 in FIG. 7;
 FIG. 10 is a cross-sectional view taken along line 10-10 in FIG. 8; and,
 FIG. 11 is a detail view of area 11 in FIG. 3.
 The broken lines shown in the drawings are included for the purpose of illustrating portions of the extractor socket that form no part of the claimed design. The broken line circles of FIGS. 3 and 11 depict the limits of the enlarged view and form no part of the claimed design.

1 Claim, 11 Drawing Sheets



Related U.S. Application Data

which is a continuation-in-part of application No. 16/514,117, filed on Jul. 17, 2019, now abandoned, and a continuation-in-part of application No. 16/255,341, filed on Jan. 23, 2019, now Pat. No. 11,154,969, which is a continuation-in-part of application No. 16/107,842, filed on Aug. 21, 2018, now Pat. No. 10,780,556, and a continuation-in-part of application No. 15/601,864, filed on May 22, 2017, now abandoned.

- (58) **Field of Classification Search**
 CPC B25B 13/065; B25B 27/18; B25B 13/06
 See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,671,141 A * 6/1987 Hanson B25B 13/48
 81/53.2
 D353,756 S * 12/1994 Graves D8/29
 5,435,680 A * 7/1995 Schuster F16B 23/003
 81/436
 5,481,948 A 1/1996 Zerkovitz
 D419,845 S * 2/2000 Yasutomi D8/70
 6,092,279 A 7/2000 Shoup
 6,098,501 A 8/2000 Sundström
 6,598,498 B1 7/2003 Pigford et al.
 D484,376 S * 12/2003 Cromer D8/29
 D484,768 S * 1/2004 Warfel D8/86
 D500,435 S * 1/2005 Dexter D8/29
 D500,944 S * 1/2005 Dexter D8/29
 D501,768 S * 2/2005 Dexter D8/29
 D506,908 S * 7/2005 Hsien D8/29
 D524,615 S 7/2006 Albertson
 D526,172 S 8/2006 Lin
 D539,131 S * 3/2007 Hsien D8/382
 7,228,764 B1 * 6/2007 Macor B25B 13/065
 81/124.6
 D592,922 S * 5/2009 Davidson D8/29
 7,661,338 B2 * 2/2010 Kochling B25B 13/06
 81/124.6
 D611,789 S * 3/2010 Taylor, Jr. D8/29
 D627,207 S * 11/2010 Chen D8/354
 D632,148 S * 2/2011 Li D8/29
 RE42,400 E * 5/2011 Dexter D8/29
 D642,882 S * 8/2011 Lane D8/29
 RE43,408 E * 5/2012 Dexter D8/29
 D664,409 S * 7/2012 Philhower D8/28
 D685,237 S * 7/2013 Super D8/29
 D709,744 S * 7/2014 Kluhsman, Jr. D8/29
 D714,606 S * 10/2014 Lee D8/29
 D745,813 S 12/2015 Hsieh
 D745,814 S 12/2015 Hsieh
 D749,384 S 1/2016 Chang
 D749,388 S * 2/2016 Lee D8/29
 D751,363 S * 3/2016 Chang D8/29
 D755,028 S * 5/2016 Yu D8/29
 D787,906 S * 5/2017 Chang D8/29
 9,687,968 B2 6/2017 Doroslovac et al.
 D794,405 S 8/2017 Doroslovac et al.
 D795,030 S * 8/2017 Angeloff D8/29
 D801,769 S * 11/2017 Chou D8/29
 D823,083 S 7/2018 Lee
 D827,402 S * 9/2018 Lee D8/29
 D828,130 S 9/2018 Lee
 D834,903 S * 12/2018 Lee D8/29
 D838,153 S * 1/2019 Hu D8/25
 D853,808 S * 7/2019 Hyma D15/140
 D854,898 S * 7/2019 Hyma D8/29
 D860,737 S * 9/2019 Huang D8/29

D864,683 S * 10/2019 McPhee D8/29
 D899,915 S * 10/2020 Chen D8/370
 D912,484 S * 3/2021 Chang D8/29
 D955,835 S * 6/2022 Lee D8/29
 D957,219 S * 7/2022 Lee D8/29
 D957,220 S * 7/2022 Yu D8/29
 D959,219 S * 8/2022 Hsieh D8/28
 11,426,839 B2 * 8/2022 Lee B25B 13/065
 D964,127 S * 9/2022 Hsieh D8/21
 D966,063 S * 10/2022 Kukucka D8/29
 D966,849 S * 10/2022 Peng D8/29
 11,554,470 B2 * 1/2023 Mckenzie B25B 27/18
 2003/0126960 A1 * 7/2003 Chen B25B 13/065
 81/121.1
 2004/0149088 A1 * 8/2004 Yamamoto F16B 23/0061
 81/186
 2006/0000318 A1 * 1/2006 Hsieh B25B 13/06
 81/121.1
 2006/0266168 A1 11/2006 Pacheco
 2007/0240476 A1 * 10/2007 Hsieh B21B 31/18
 72/247
 2008/0028897 A1 * 2/2008 Hu B25B 13/06
 81/121.1
 2012/0210826 A1 8/2012 Stawarski
 2013/0068075 A1 * 3/2013 Stiebitz F16B 23/003
 81/460
 2015/0273670 A1 * 10/2015 Cheng B25B 13/065
 81/121.1
 2015/0298304 A1 * 10/2015 Chen B25B 23/108
 81/125
 2015/0314429 A1 11/2015 Doroslovac
 2017/0246733 A1 8/2017 Shehab
 2017/0252905 A1 9/2017 Doroslovac et al.
 2017/0312897 A1 11/2017 Doroslovac et al.
 2019/0217449 A1 * 7/2019 Lee B25B 13/065
 2020/0023498 A1 * 1/2020 Cho B25B 13/065
 2021/0283756 A1 * 9/2021 Kukucka B25B 13/50
 2022/0266426 A1 * 8/2022 Hsieh B25B 13/06
 2023/0010693 A1 * 1/2023 Fu B25B 13/56
 2023/0031054 A1 * 2/2023 Gupte B25B 13/06
 2023/0118144 A1 * 4/2023 Hsieh B25B 23/0035
 81/125

FOREIGN PATENT DOCUMENTS

CN 103639950 A 3/2014
 CN 204186727 U 3/2015
 DE 202010006146 U1 7/2010
 DM 091188 5/2016
 DM 091189 5/2016
 EP 0930132 A2 7/1999
 EP 0930132 A3 11/2000
 GA 906839 A 9/1962
 JP 2017042898 A 3/2017
 TW 201341127 A 10/2013
 TW 201813785 A 4/2018
 TW 201829135 A 8/2018
 WO 9416862 A 8/1994
 WO WO9812982 A1 4/1998
 WO 2006130490 A 12/2006
 WO 2015013246 A 1/2015
 WO WO2015050942 A1 4/2015
 WO 2016005180 A 1/2016
 WO WO2017069953 A1 4/2017

OTHER PUBLICATIONS

Gearwrench 14 Pc. 3/4" Drive 6 Point Deep Impact Metric Socket Set—84972; GearWrench; Amazon.com; Apr. 28, 2018; Accessed Apr. 25, 2023; URL:<<https://www.amazon.com/dp/B078Z2Y57H>> (Year: 2018).*

* cited by examiner

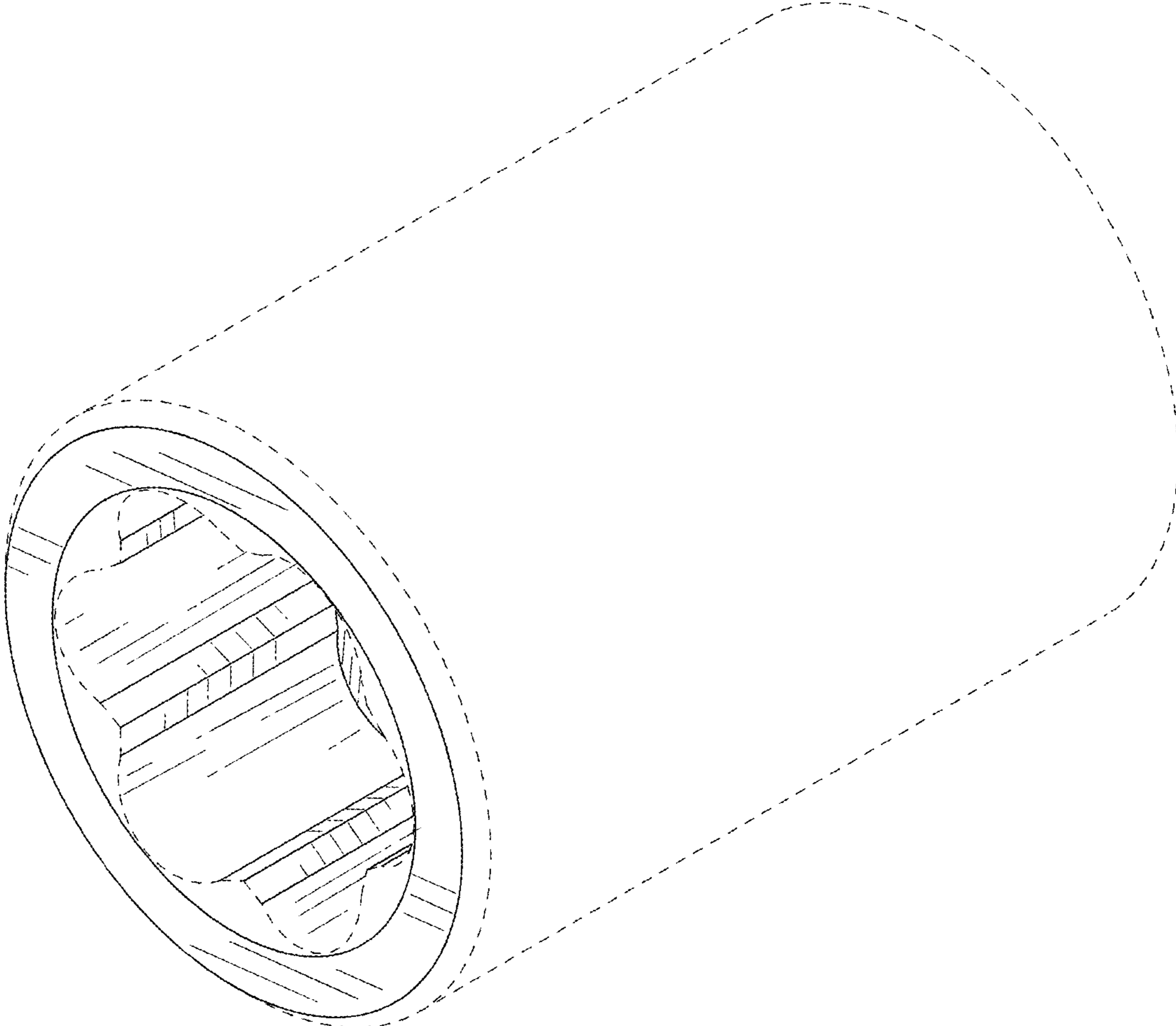


FIG. 1

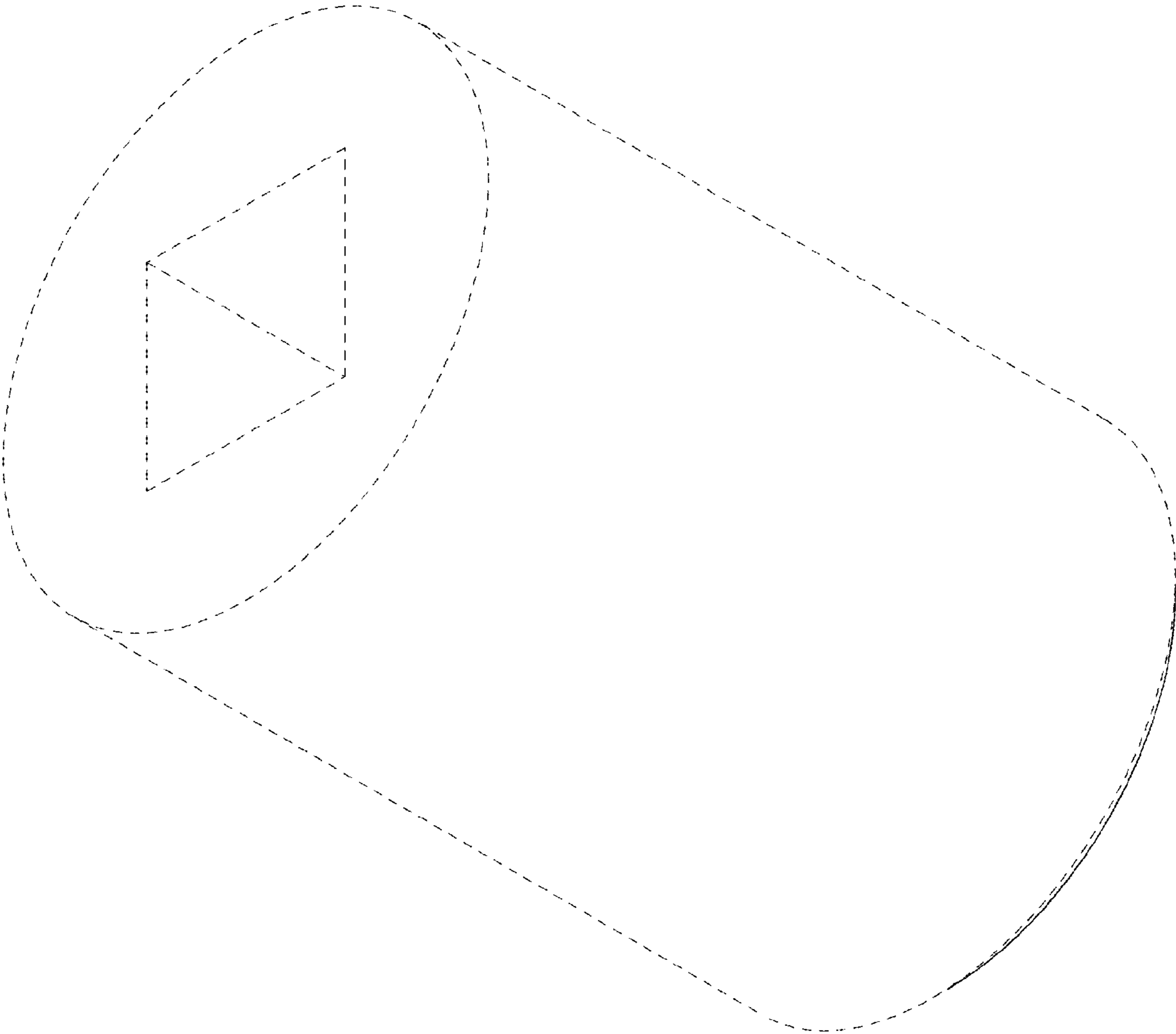


FIG. 2

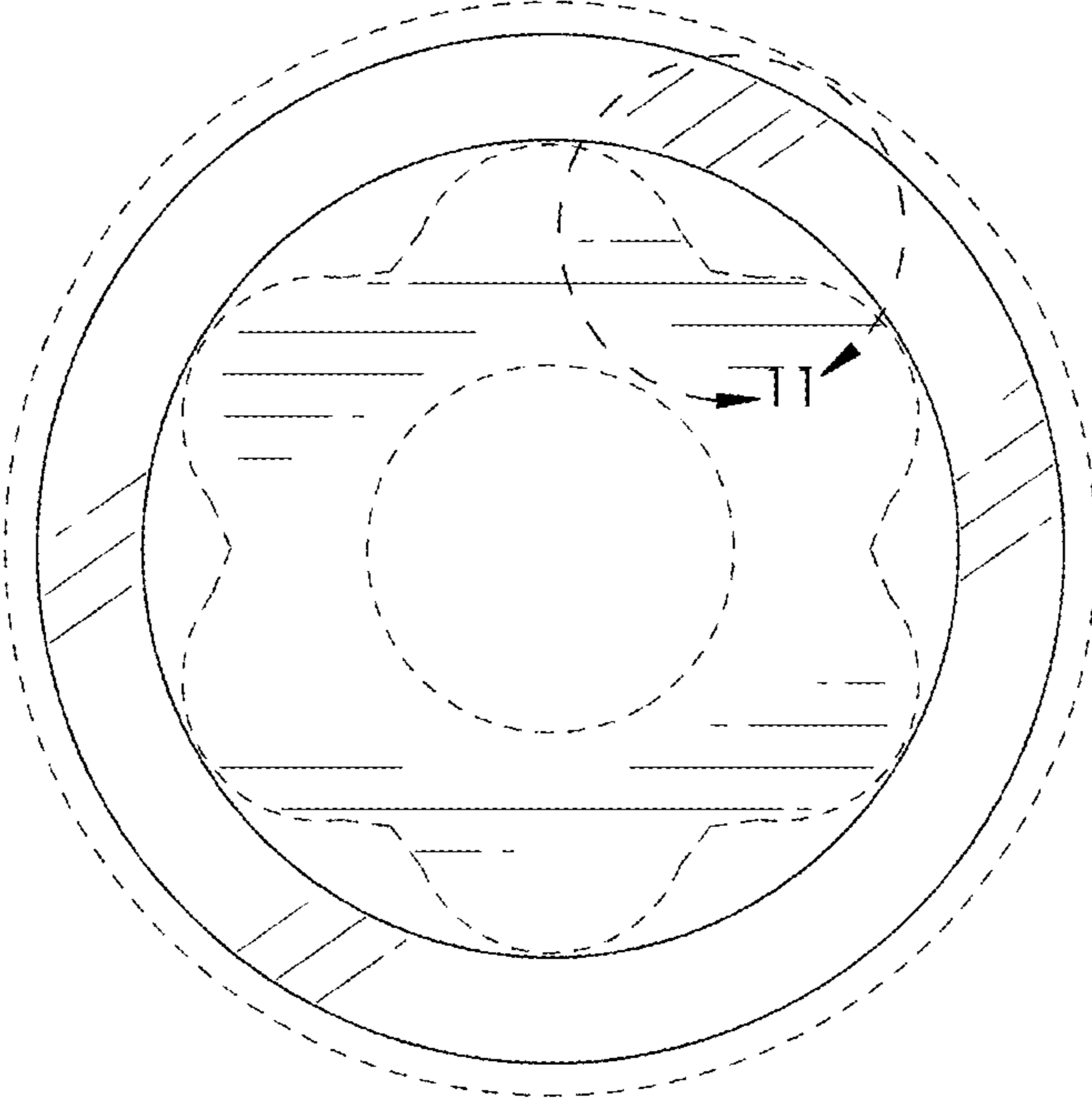


FIG. 3

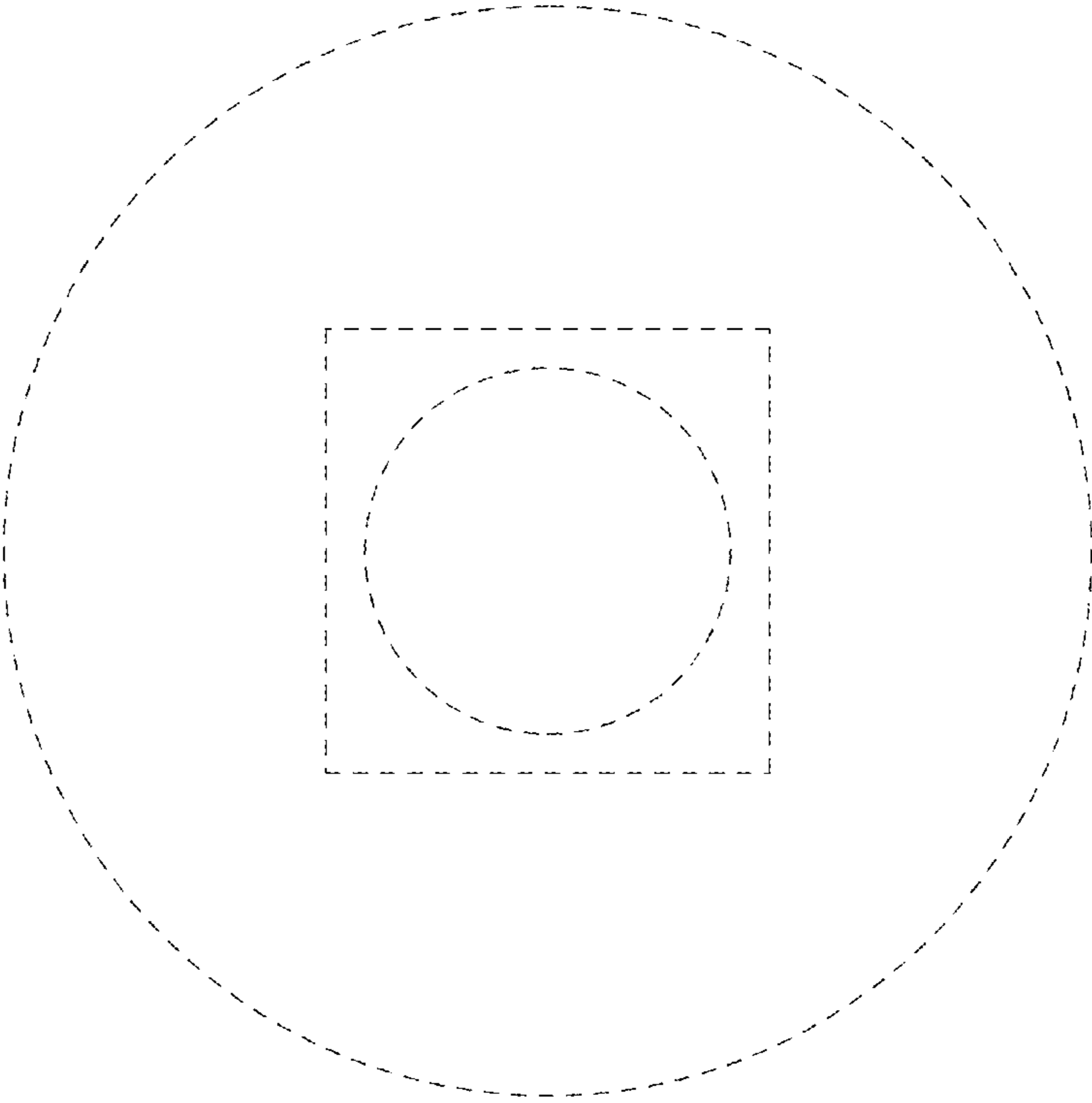


FIG. 4



FIG. 5



FIG. 6

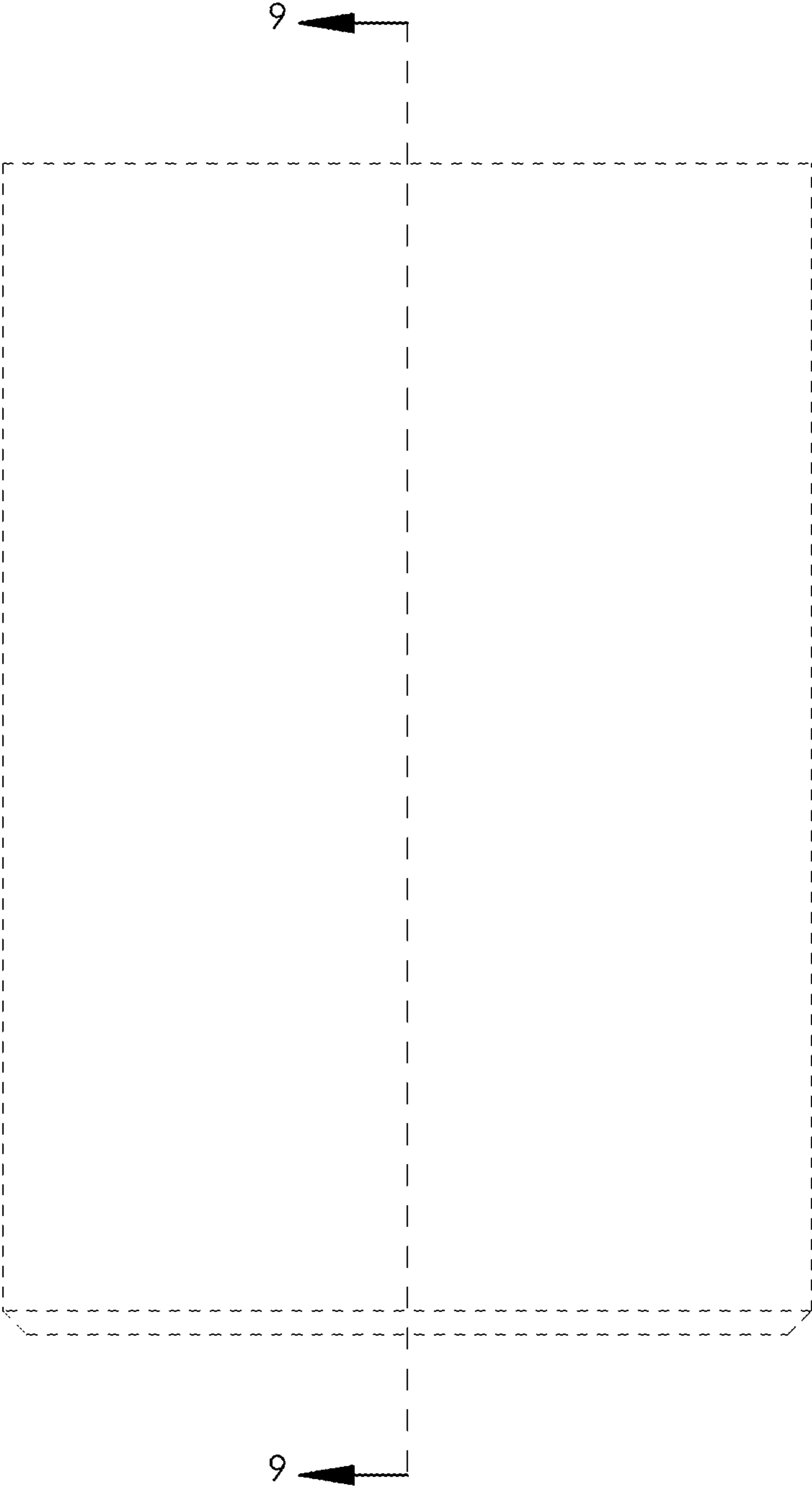


FIG. 7

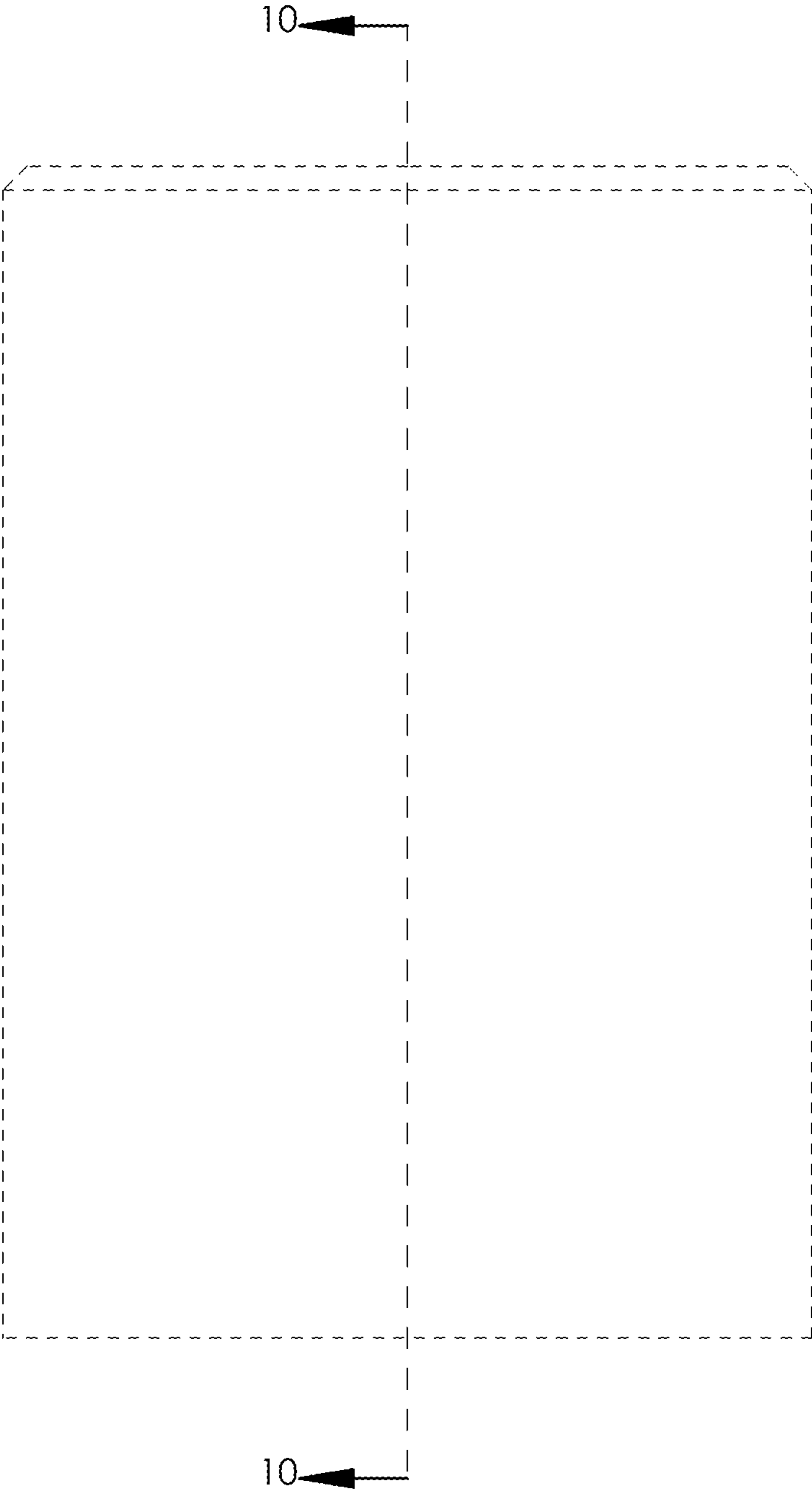


FIG. 8

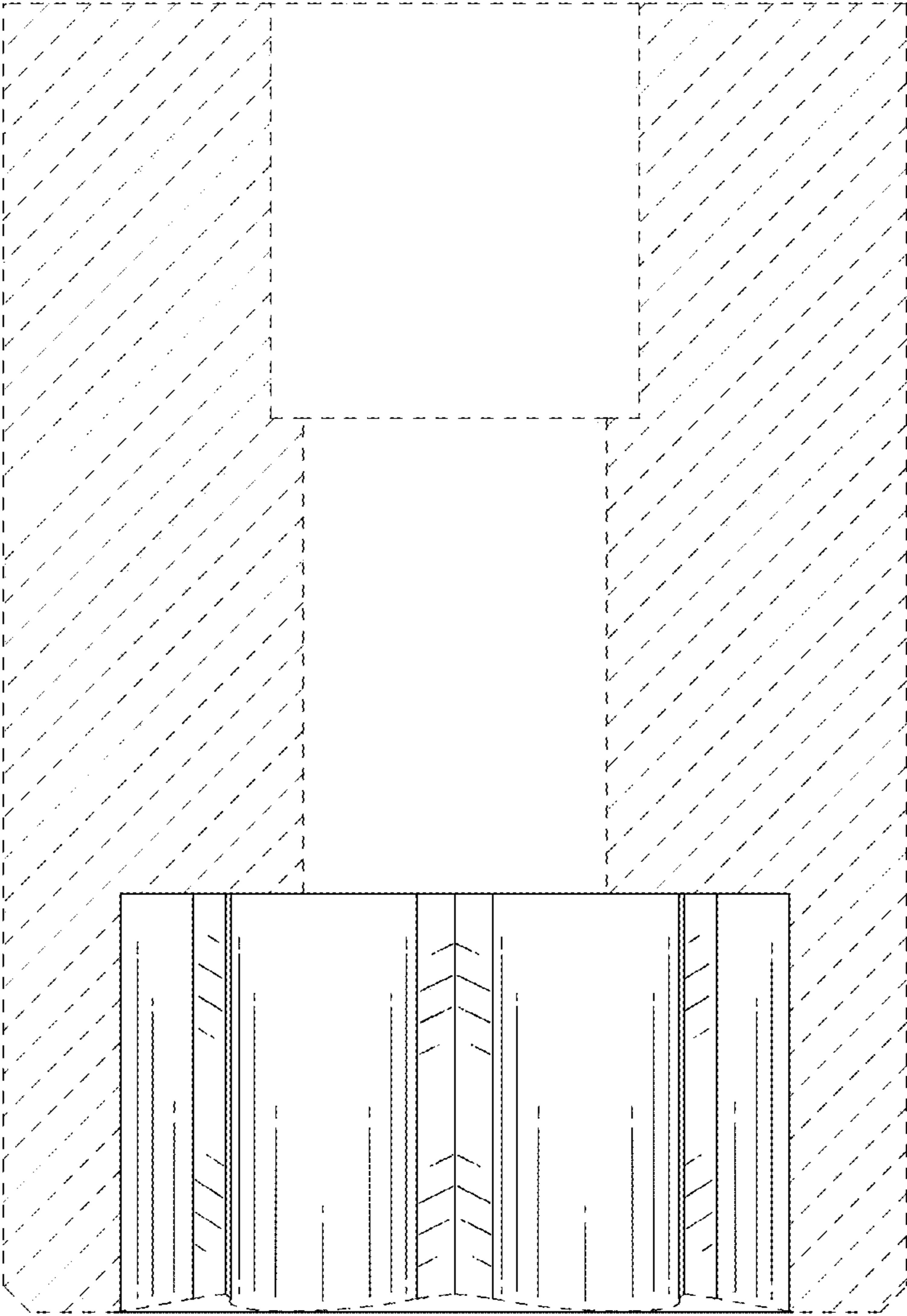


FIG. 9

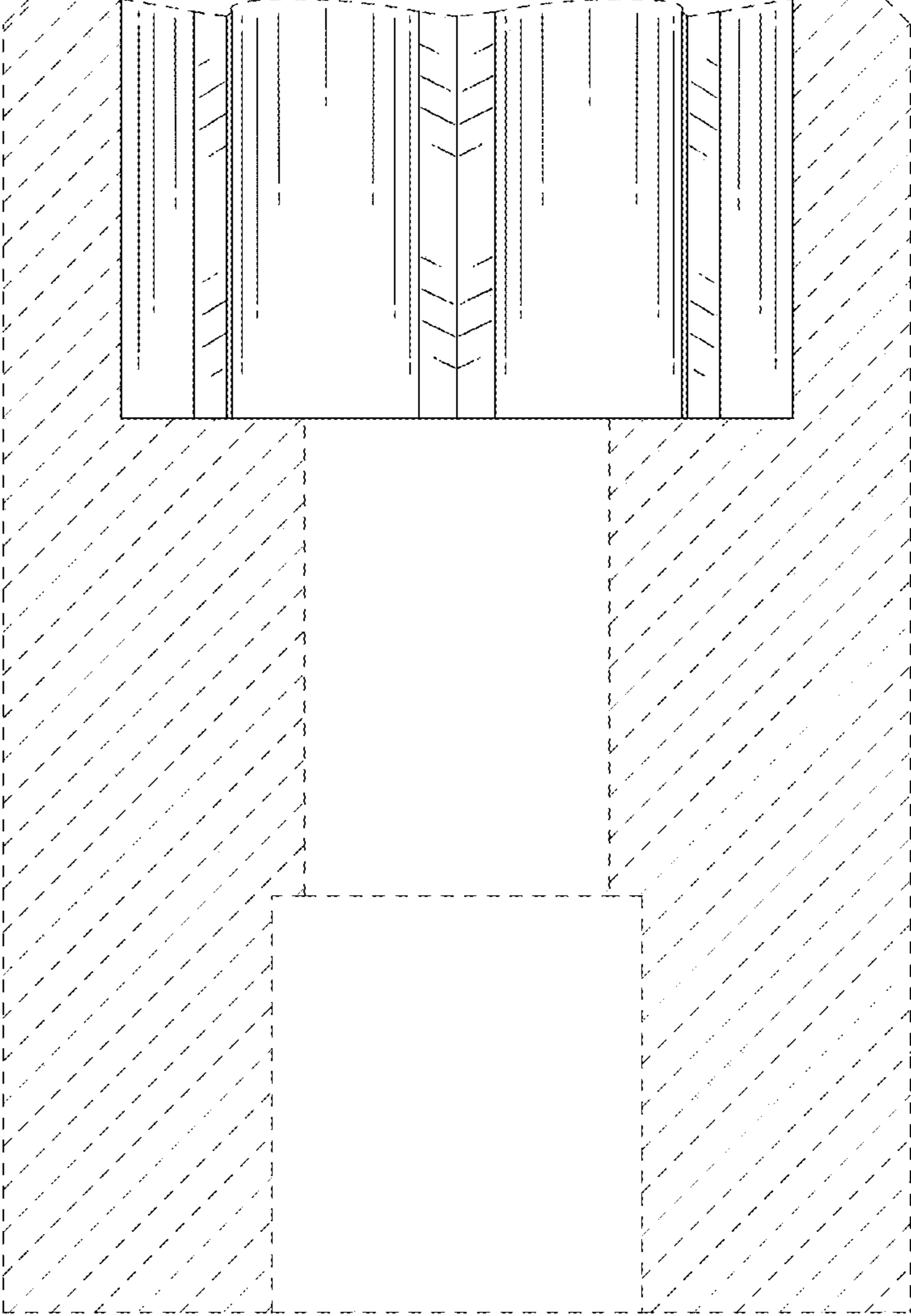


FIG. 10

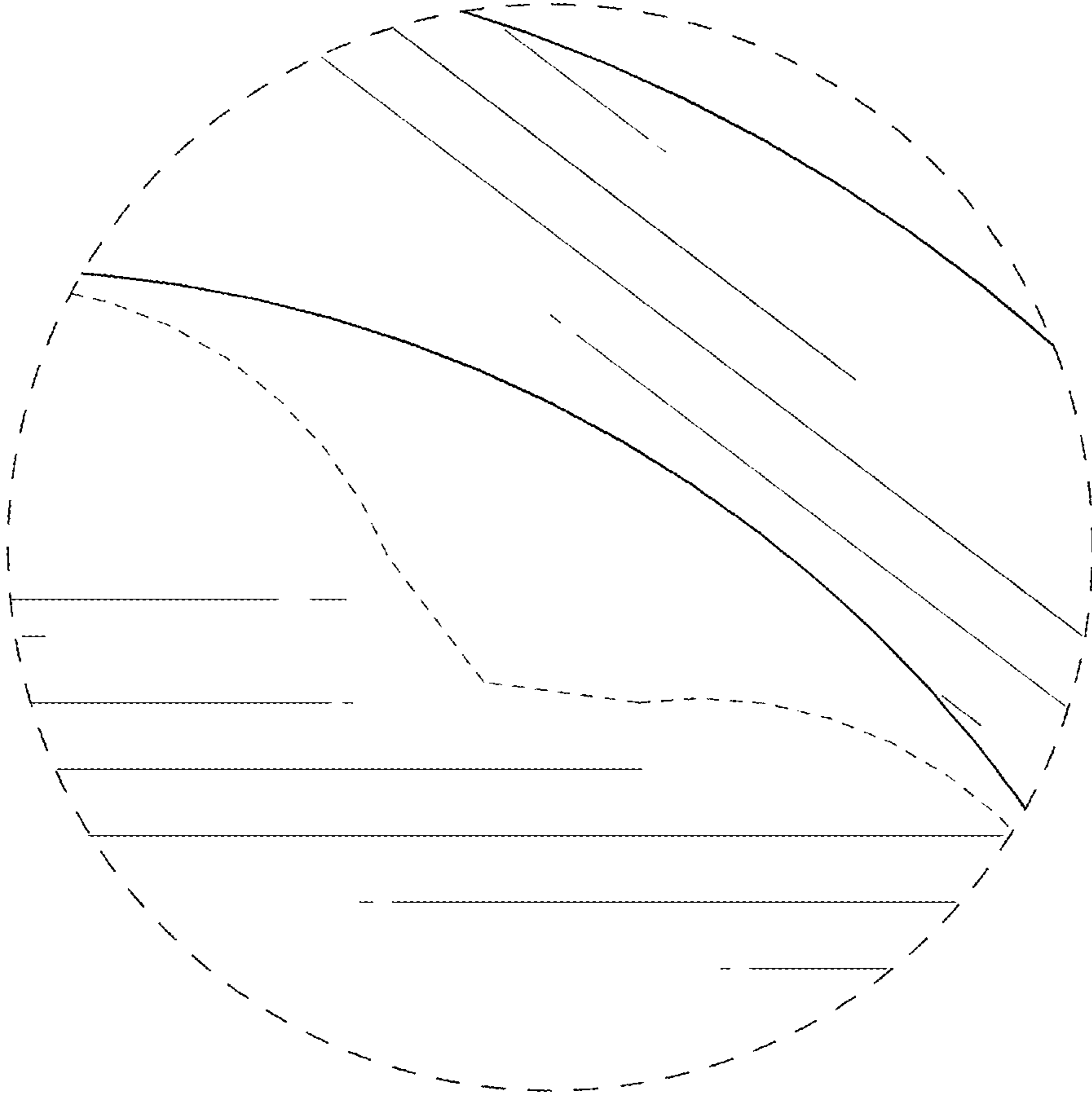


FIG. 11