

US00D917028S

(12) **United States Design Patent** (10) **Patent No.:** **US D917,028 S**  
**Yoshida et al.** (45) **Date of Patent:** **\*\* Apr. 20, 2021**

(54) **SEAL**

(71) Applicant: **Valqua, Ltd.**, Tokyo (JP)

(72) Inventors: **Nobuhiro Yoshida**, Gojo (JP); **Ippei Nakagawa**, Gojo (JP)

(73) Assignee: **Valqua, Ltd.**, Tokyo (JP)

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

(21) Appl. No.: **29/730,922**

(22) Filed: **Apr. 9, 2020**

**Related U.S. Application Data**

(62) Division of application No. 29/675,451, filed on Jan. 2, 2019, now Pat. No. Des. 901,648.

(30) **Foreign Application Priority Data**

Jul. 10, 2018 (JP) ..... 2018-015238

Jul. 10, 2018 (JP) ..... 2018-015239

(51) **LOC (13) Cl.** ..... **23-01**

(52) **U.S. Cl.**  
USPC ..... **D23/269**; D15/144

(58) **Field of Classification Search**  
USPC ..... D23/269, 262, 249, 259; D15/138-139,  
D15/143-144; 277/351-359, 359-360,  
(Continued)

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,421,330 A 12/1983 Burke  
5,692,758 A \* 12/1997 Wikstrom ..... F16J 15/106  
277/591

(Continued)

**FOREIGN PATENT DOCUMENTS**

JP 2017115982 A 6/2017  
TW M379164 U 4/2010

(Continued)

*Primary Examiner* — Amy C Wierenga

(74) *Attorney, Agent, or Firm* — The Webb Law Firm

(57) **CLAIM**

The ornamental design for a seal, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of a seal showing our new design;

FIG. 2 is a top view thereof;

FIG. 3 is a bottom view thereof;

FIG. 4 is a front elevation view thereof;

FIG. 5 is a right side elevation view thereof;

FIG. 6 is a cross-sectional view thereof taken along lines 6-6 shown in FIG. 2;

FIG. 7 is an enlarged cross-sectional view of a portion thereof taken from area 7-7 shown in FIG. 6;

FIG. 8 is a cross-sectional view thereof taken along lines 8-8 shown in FIG. 2;

FIG. 9 is an enlarged cross-sectional view of a portion thereof taken from area 9-9 shown in FIG. 8;

FIG. 10 is a cross-sectional view thereof taken along lines 10-10 shown in FIG. 2;

FIG. 11 is an enlarged cross-sectional view of a portion thereof taken from area 11-11 shown in FIG. 10;

FIG. 12 is a cross-sectional view thereof taken along lines 12-12 shown in FIG. 2;

FIG. 13 is an enlarged cross-sectional view of a portion thereof taken from area 13-13 shown in FIG. 12;

FIG. 14 is a cross-sectional view thereof taken along lines 14-14 shown in FIG. 2;

FIG. 15 is an enlarged cross-sectional view of a portion thereof taken from area 15-15 shown in FIG. 14;

FIG. 16 is a cross-sectional view thereof taken along lines 16-16 shown in FIG. 2;

FIG. 17 is an enlarged cross-sectional view of a portion thereof taken from area 17-17 shown in FIG. 16;

FIG. 18 is a cross-sectional view thereof taken along lines 18-18 shown in FIG. 2;

FIG. 19 is an enlarged cross-sectional view of a portion thereof taken from area 19-19 shown in FIG. 18;

FIG. 20 is an enlarged cross-sectional view of a portion thereof taken from area 20-20 shown in FIG. 18;

(Continued)

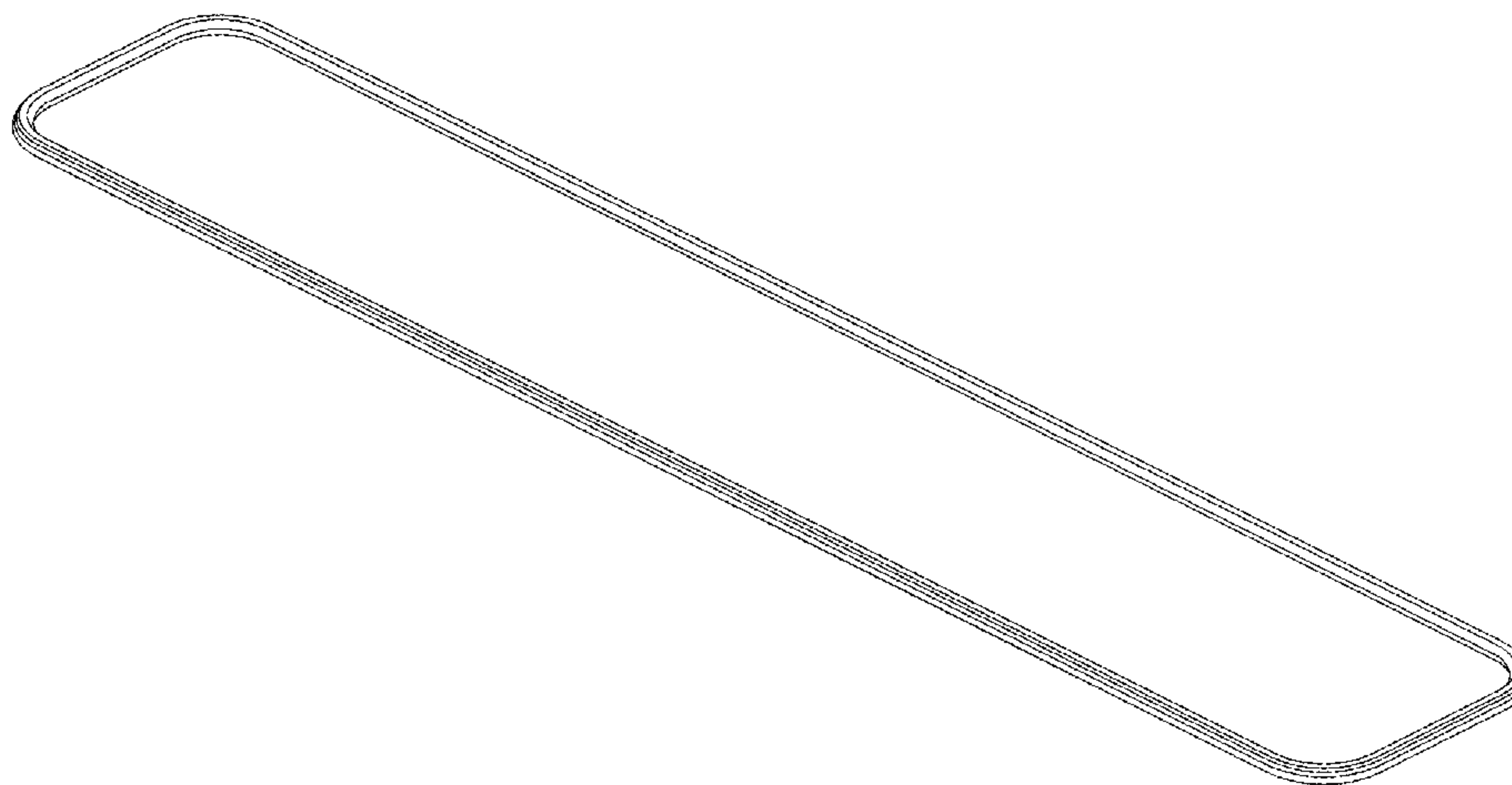


FIG. 21 is a cross-sectional view thereof taken along lines 21-21 shown in FIG. 2;  
 FIG. 22 is an enlarged cross-sectional view of a portion thereof taken from area 22-22 shown in FIG. 21; and,  
 FIG. 23 is an enlarged cross-sectional view of a portion thereof taken from area 23-23 shown in FIG. 21.  
 The rear elevation and left side elevation views of the seal are omitted as they are identical in appearance to the front elevation and right side elevation views, respectively.

**1 Claim, 23 Drawing Sheets**

(58) **Field of Classification Search**

USPC ..... 277/504, 563, 572, 316, 364-365, 394,  
 277/397, 406-407, 418, 449, 451-454,  
 277/458-460, 491, 517, 529, 602, 610,  
 277/612, 641-642, 644, 648; 285/339,  
 285/343  
 CPC ..... E04D 13/14; F16J 7/00  
 See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,854,739 B2 2/2005 Schleth et al.  
 D517,679 S \* 3/2006 Stout, Jr. .... D23/393

7,306,237 B2 12/2007 Tsuji et al.  
 8,074,967 B2 12/2011 Tsuji  
 D755,356 S \* 5/2016 Vaseleniuck ..... D23/269  
 9,611,940 B2 \* 4/2017 Khan ..... F16K 3/0227  
 9,892,945 B2 2/2018 Nakagawa  
 D819,187 S 5/2018 Yamamoto  
 D836,186 S 12/2018 Takahashi et al.  
 D871,561 S \* 12/2019 Kang ..... D23/269  
 D901,648 S \* 11/2020 Yoshida ..... D23/269  
 2006/0097461 A1 5/2006 Tsuji et al.  
 2009/0045371 A1 \* 2/2009 Kamibayashiyama .....  
 F16K 3/0227  
 251/328  
 2010/0264606 A1 \* 10/2010 Hayashi ..... F16J 15/106  
 277/641  
 2014/0175310 A1 \* 6/2014 Coppola ..... F16K 1/44  
 251/85  
 2015/0176713 A1 6/2015 Khan et al.  
 2019/0107199 A1 4/2019 Dore

FOREIGN PATENT DOCUMENTS

TW D143035 S 10/2011  
 TW D149670 S 10/2012  
 TW D149671 S 10/2012  
 TW D149672 S 10/2012  
 TW D150427 S 11/2012  
 TW D185712 S 10/2017  
 TW D185713 S 10/2017  
 TW D185714 S 10/2017

\* cited by examiner

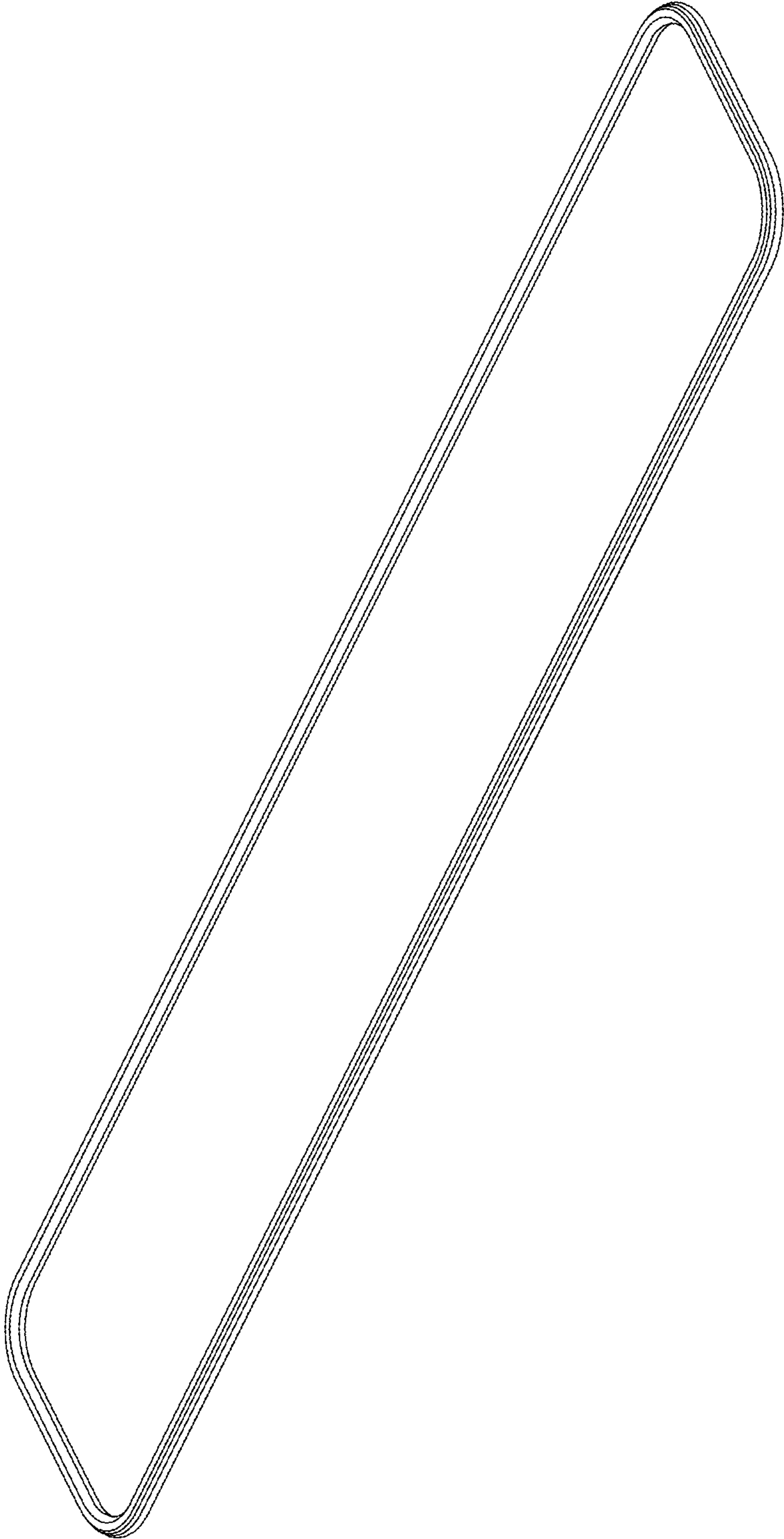


FIG. 1

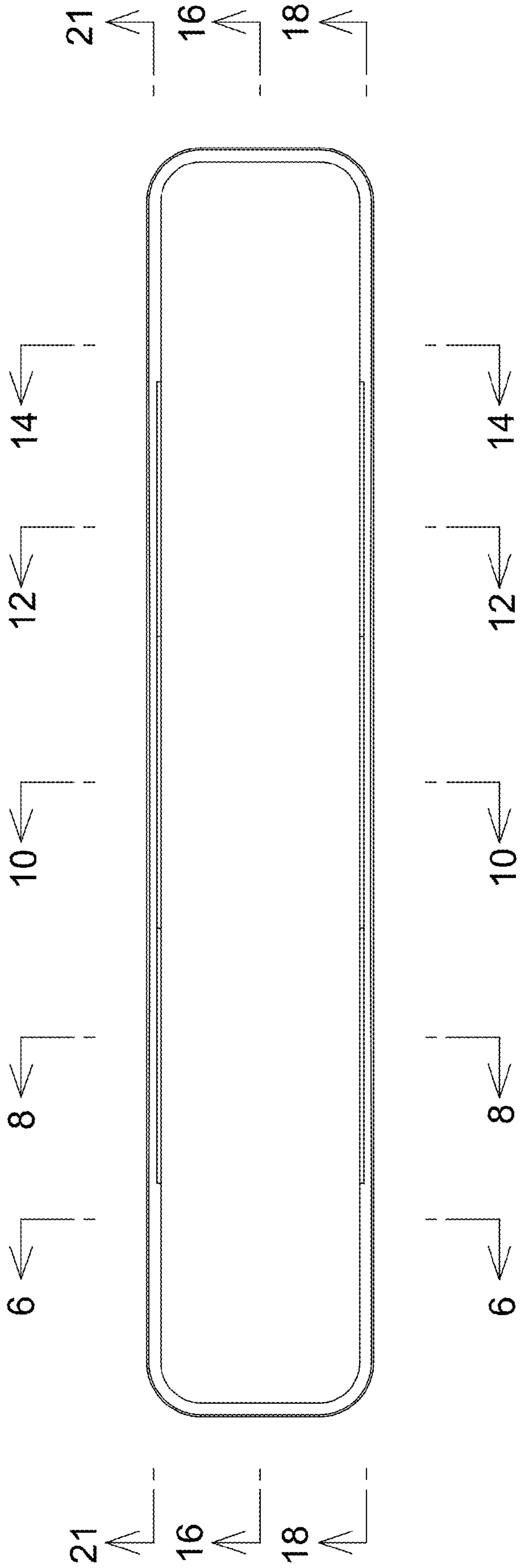


FIG. 2

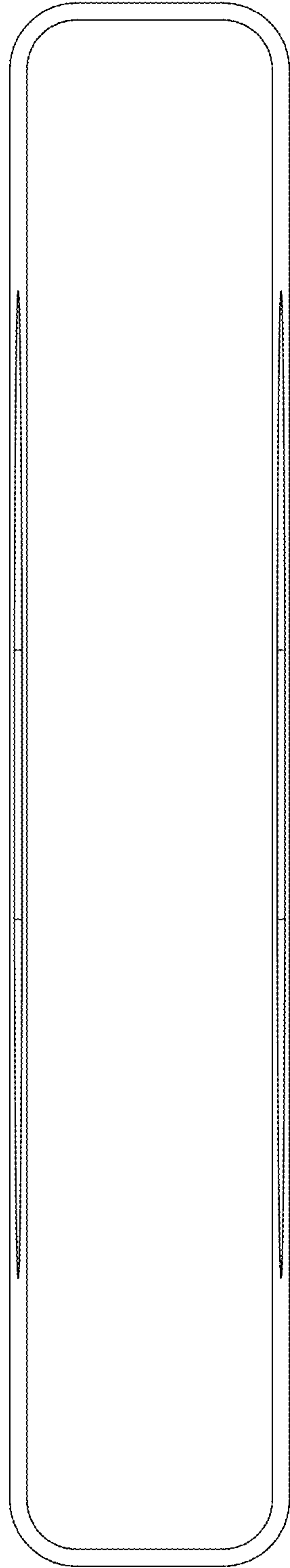


FIG. 3

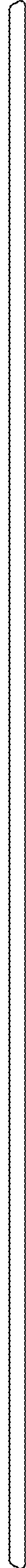
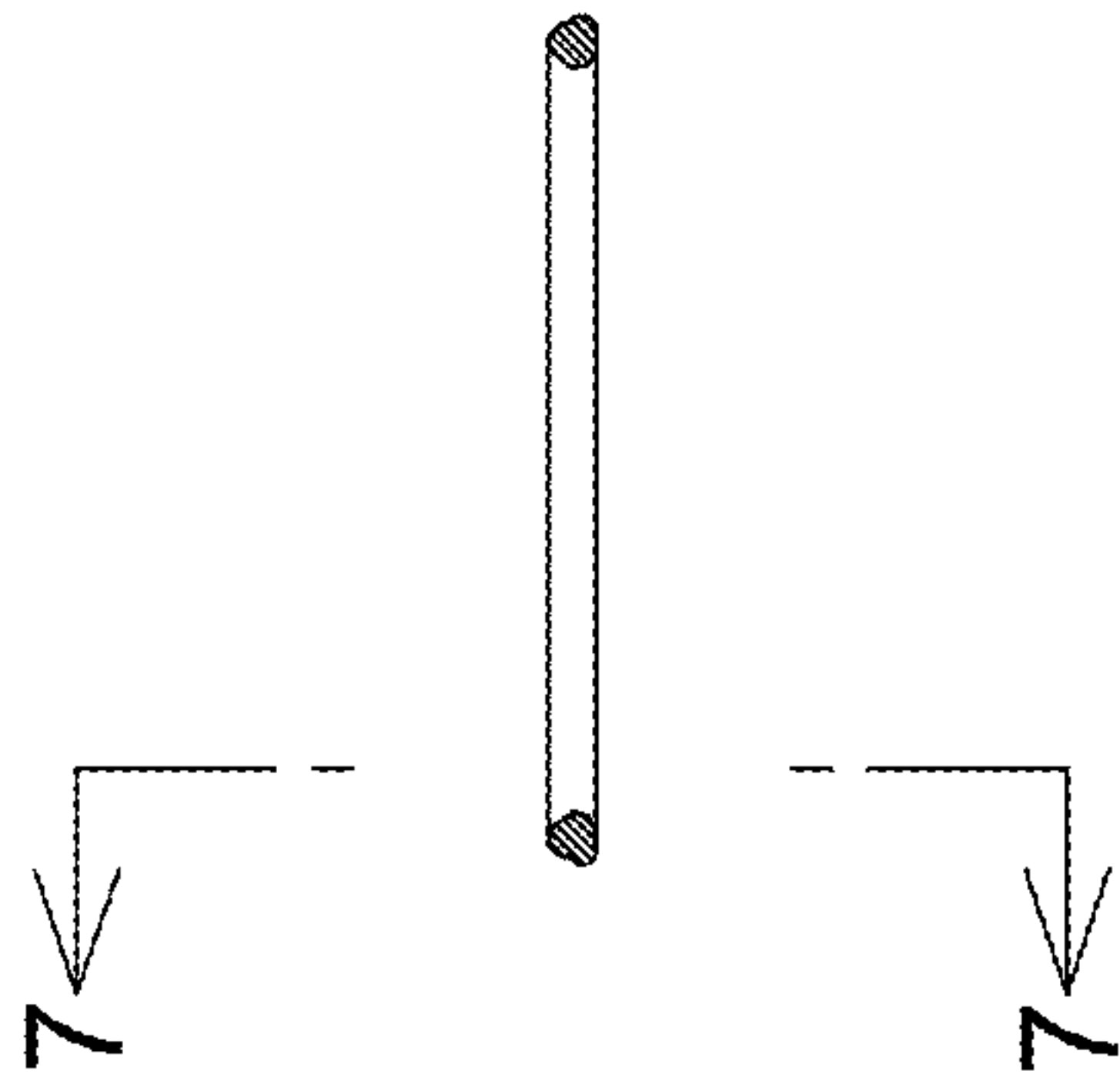


FIG. 4





**FIG. 5**



**FIG. 6**



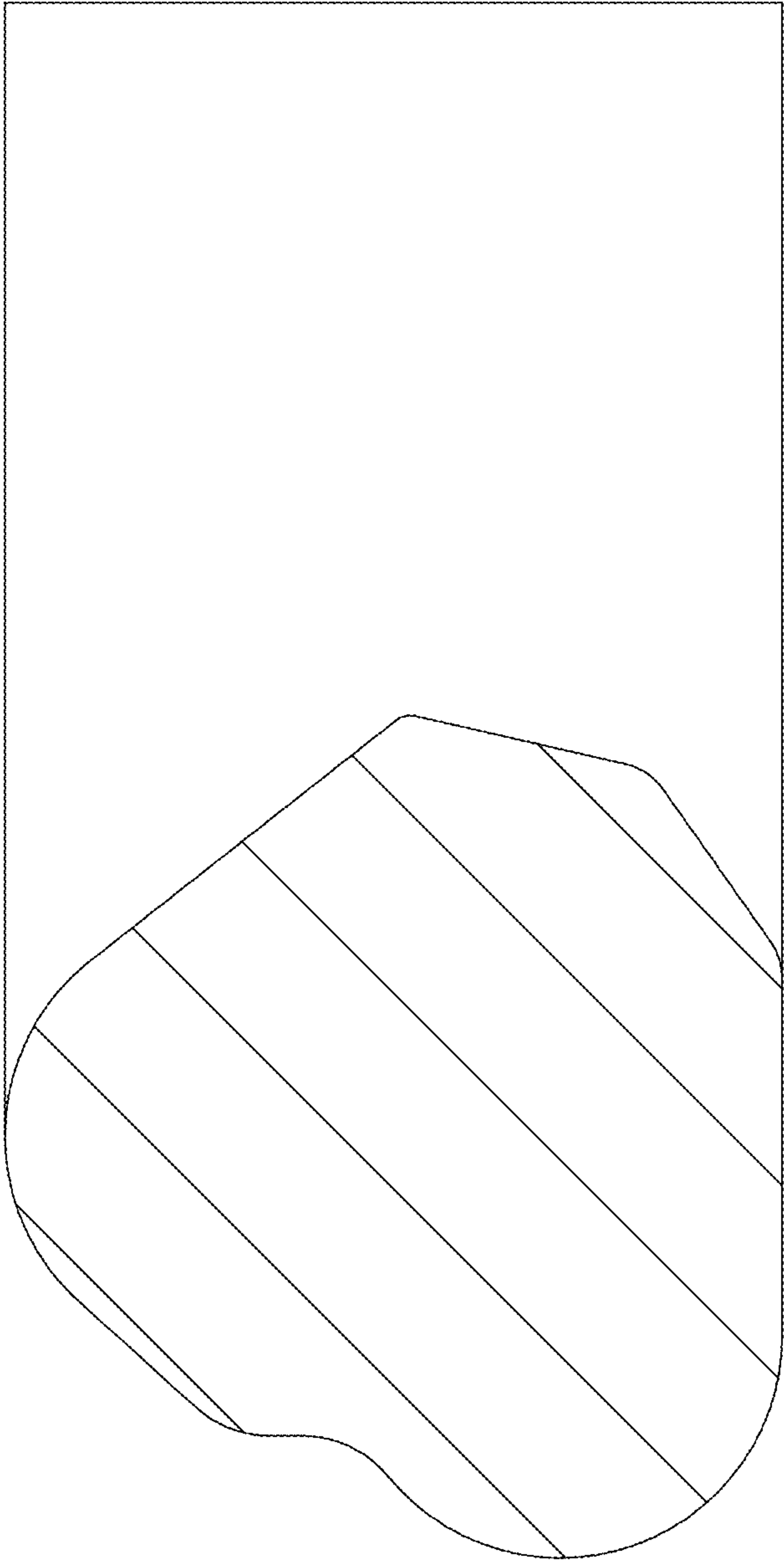


FIG. 7

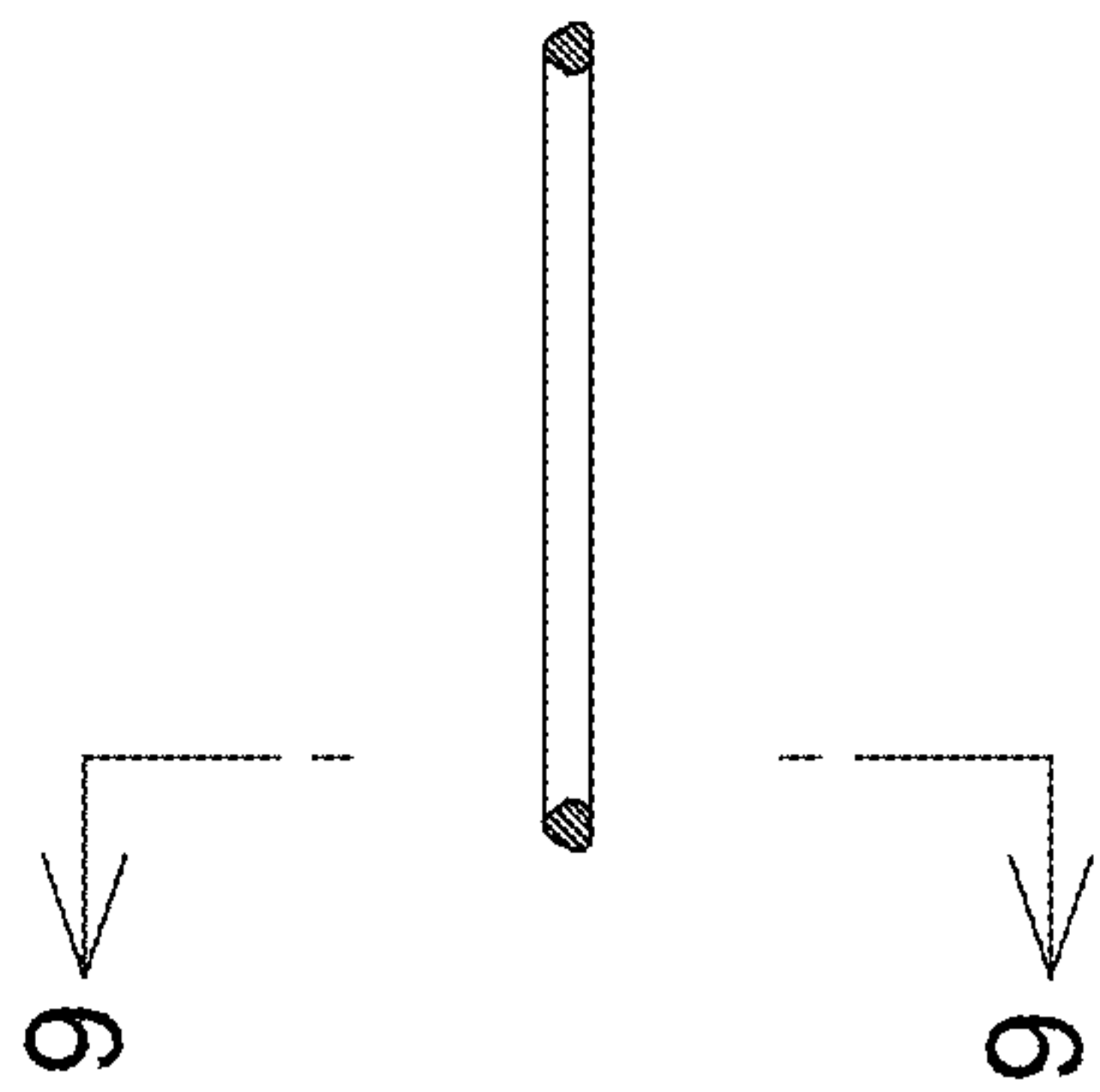


FIG. 8

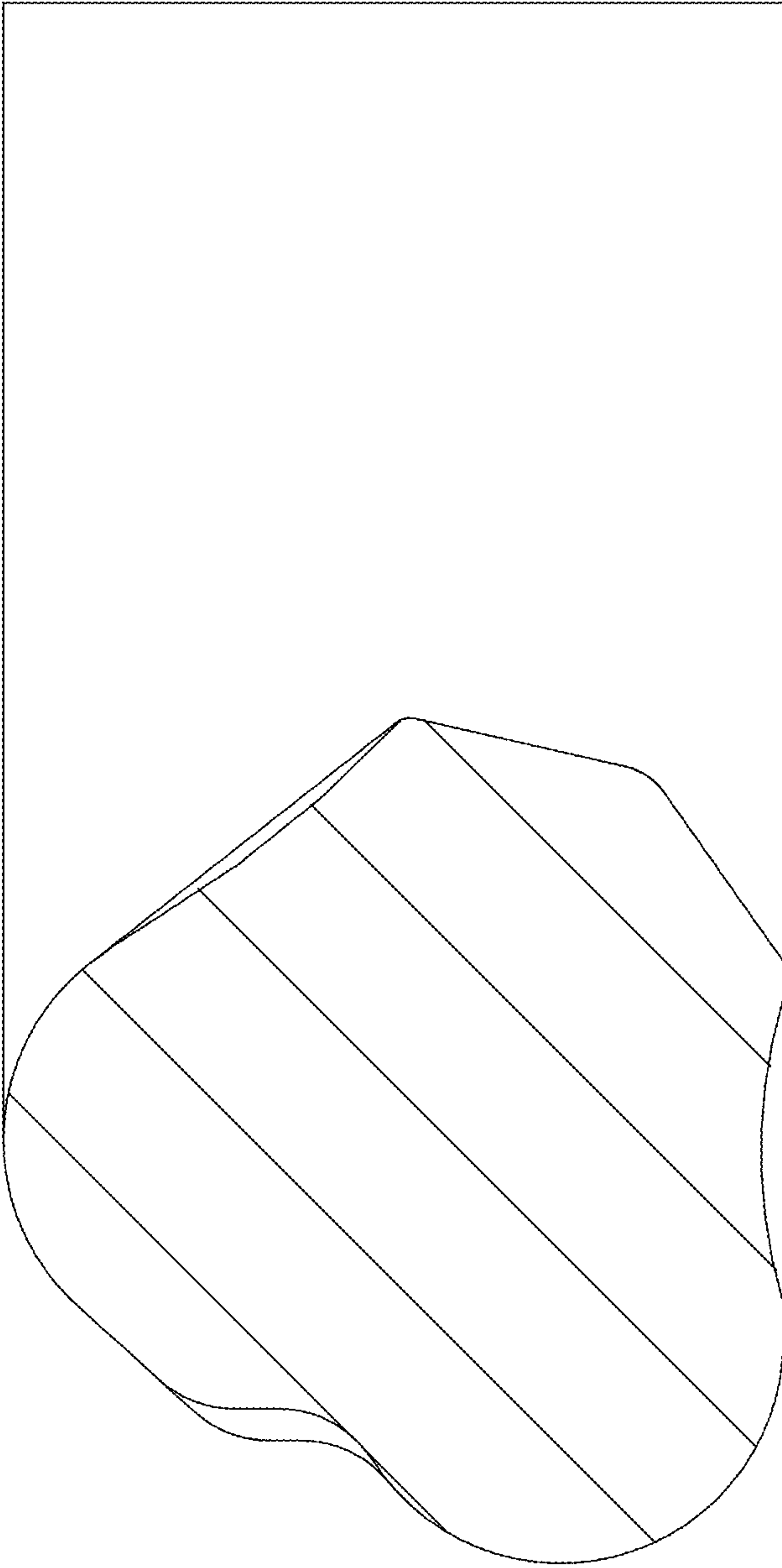


FIG. 9

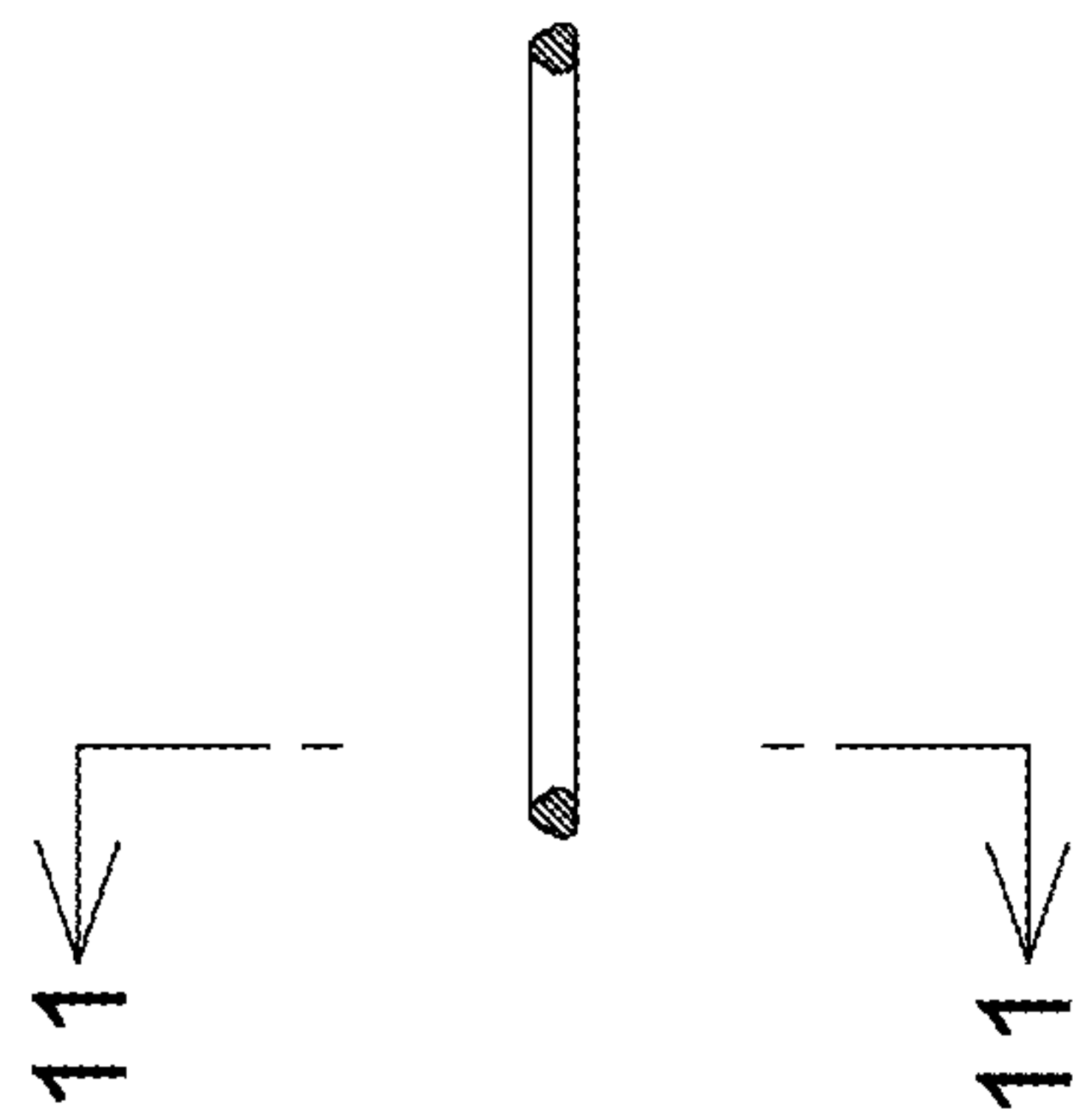


FIG. 10

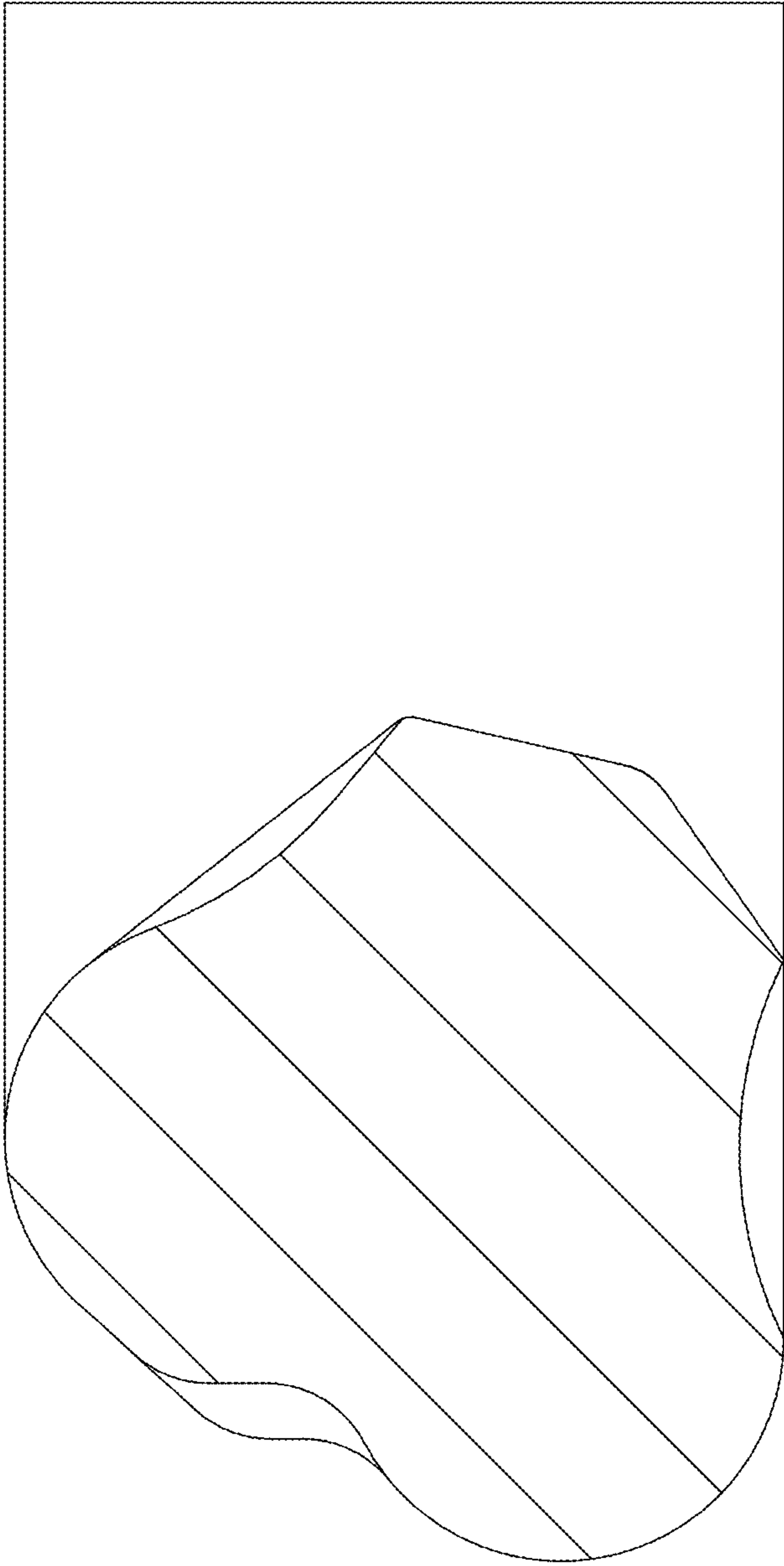


FIG. 11

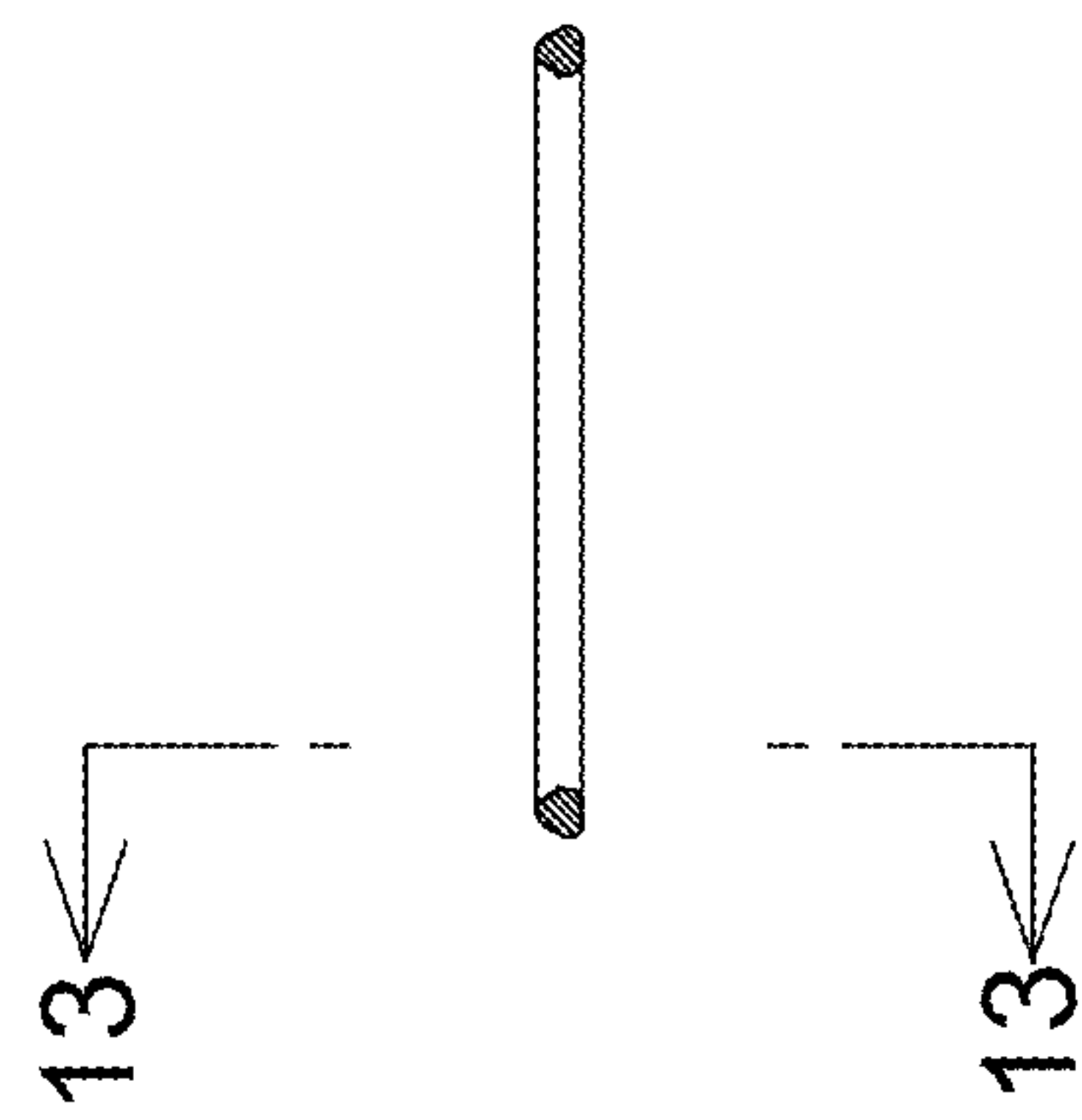


FIG. 12

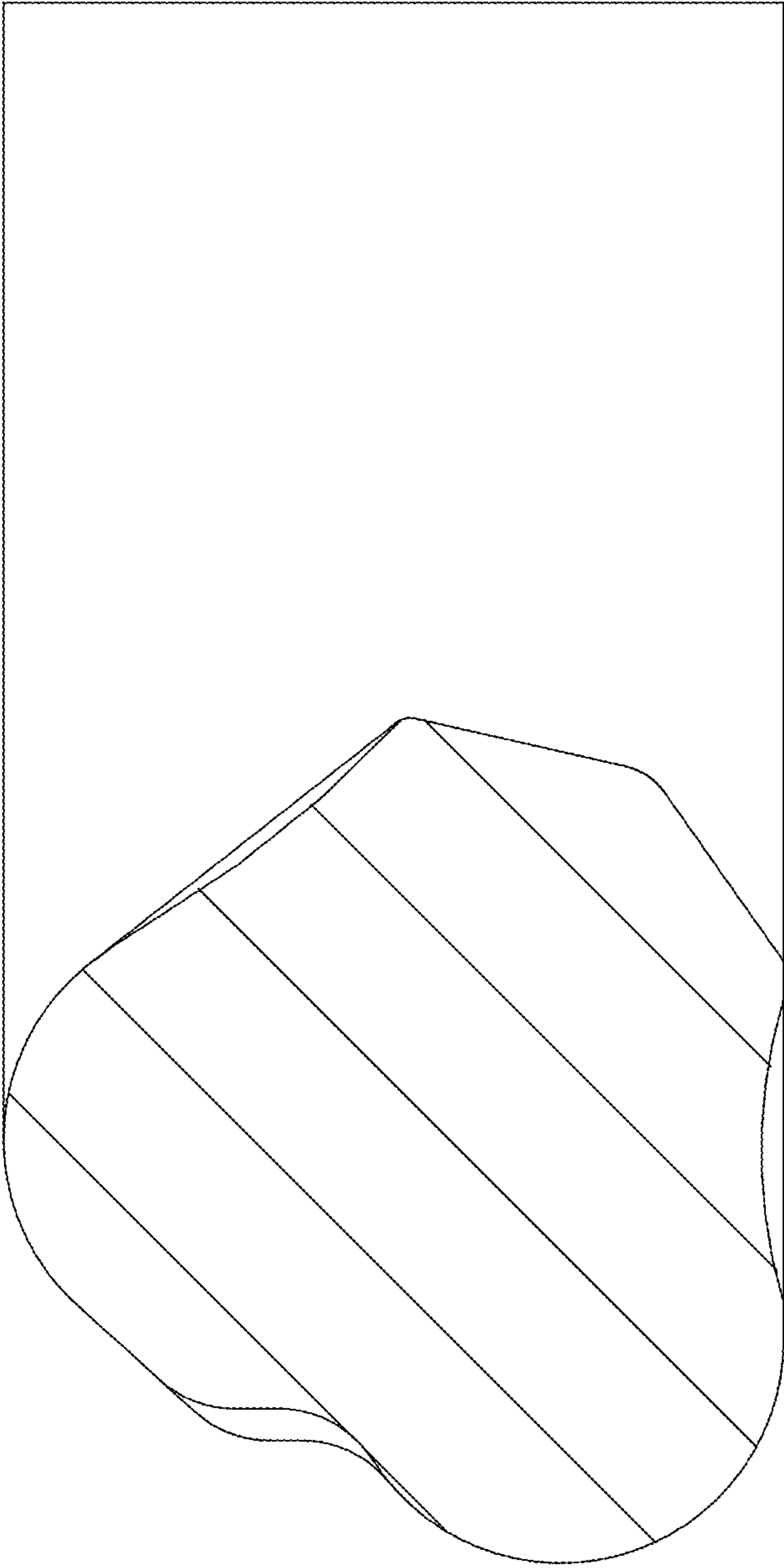


FIG. 13



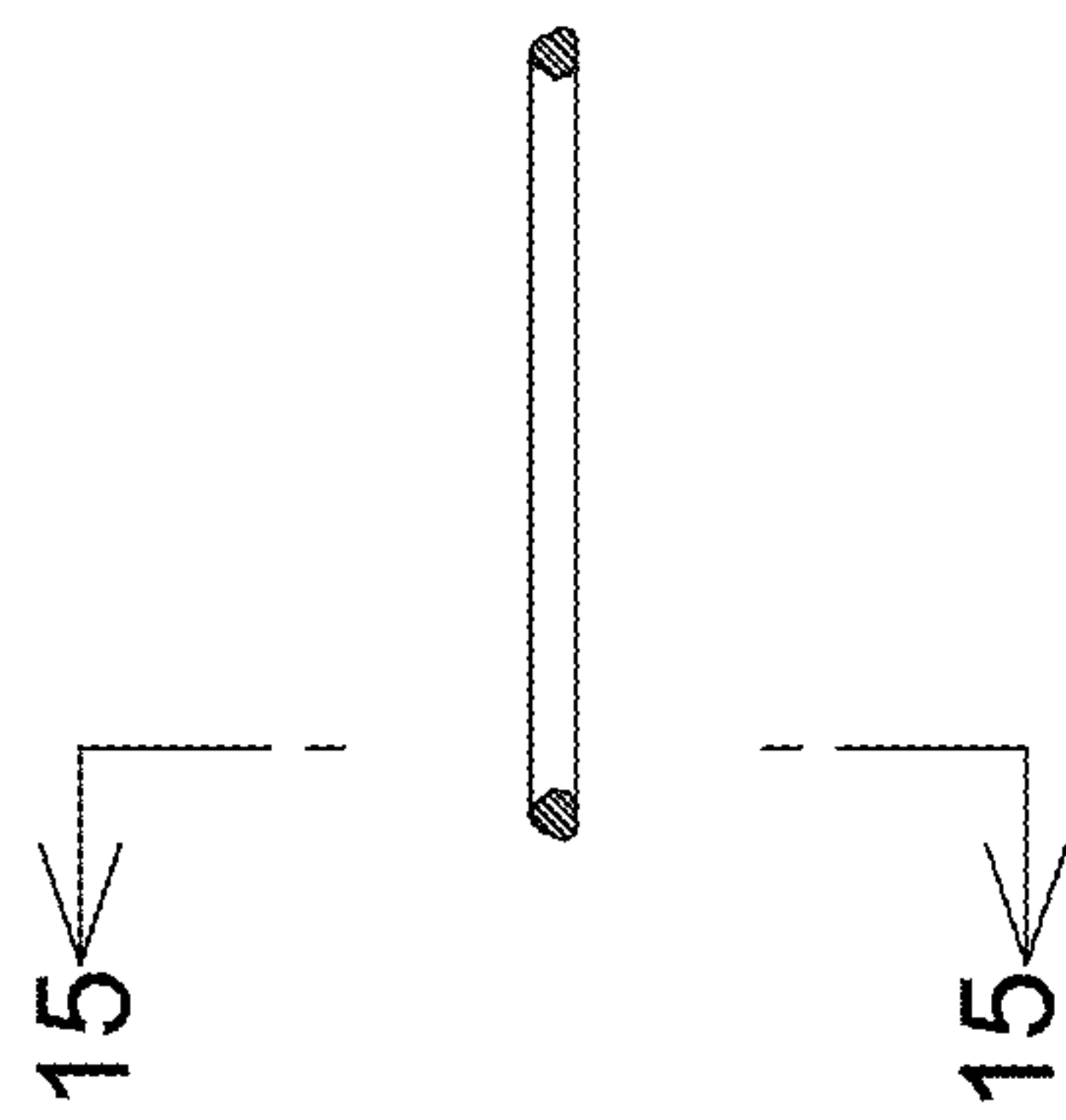


FIG. 14

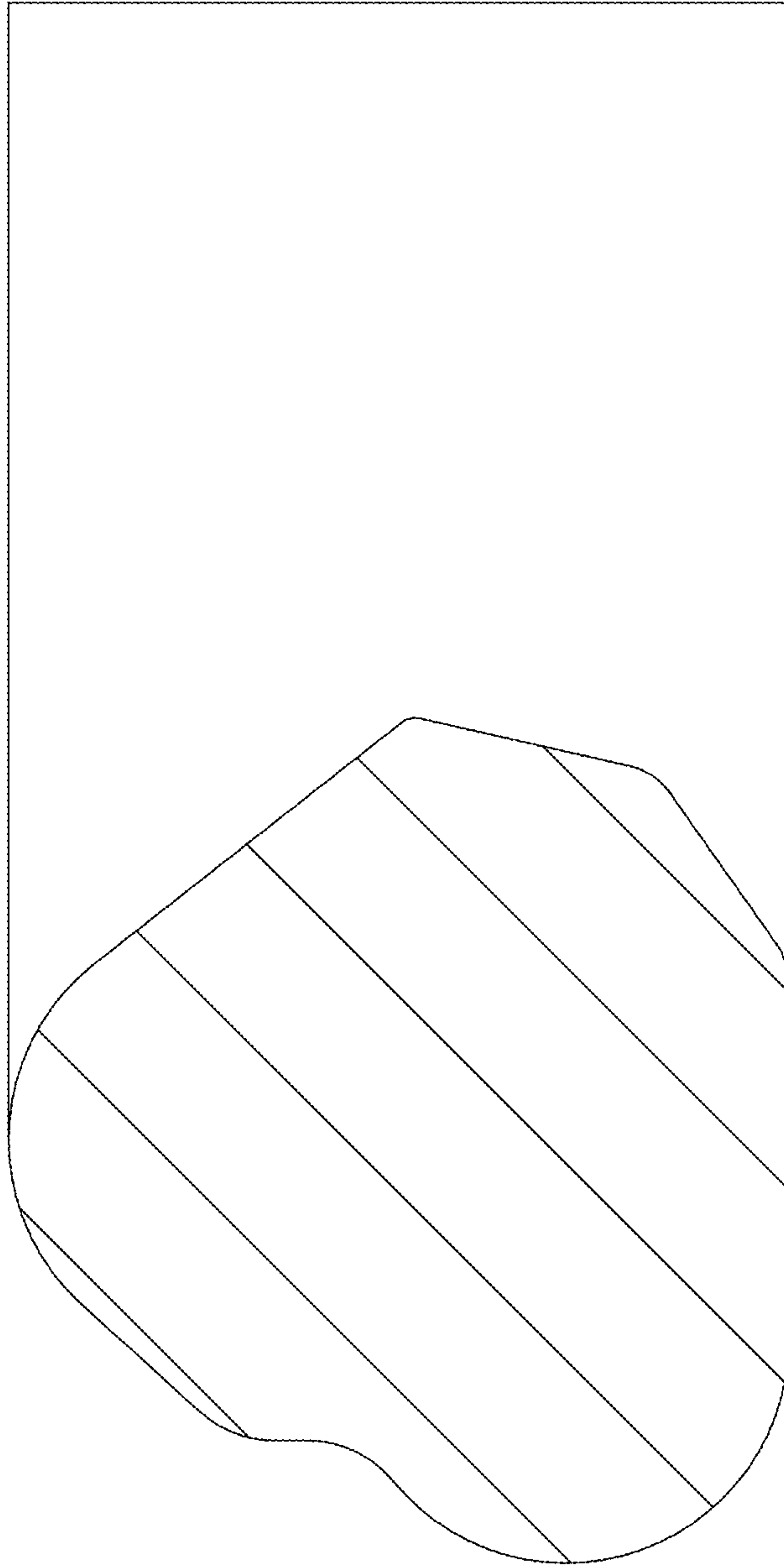


FIG. 15

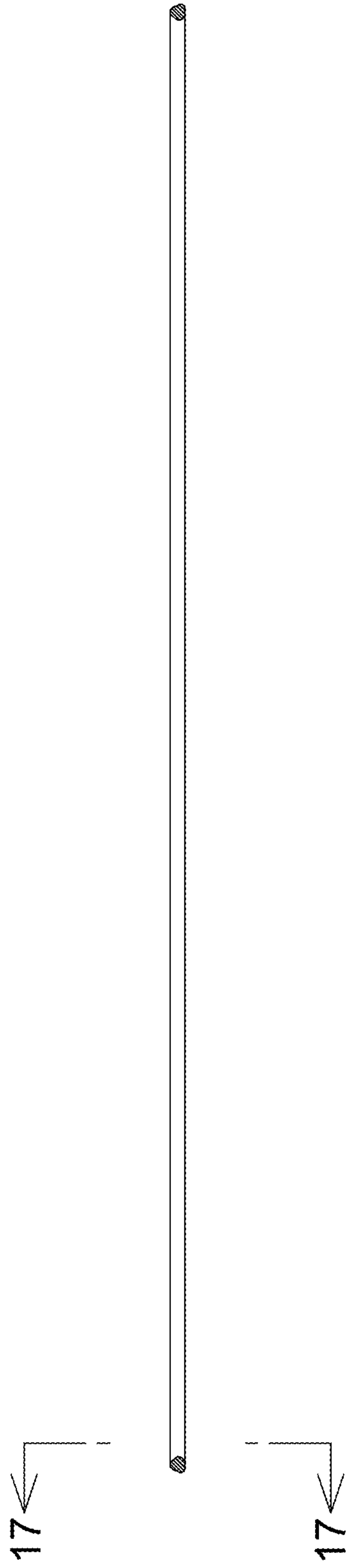


FIG. 16

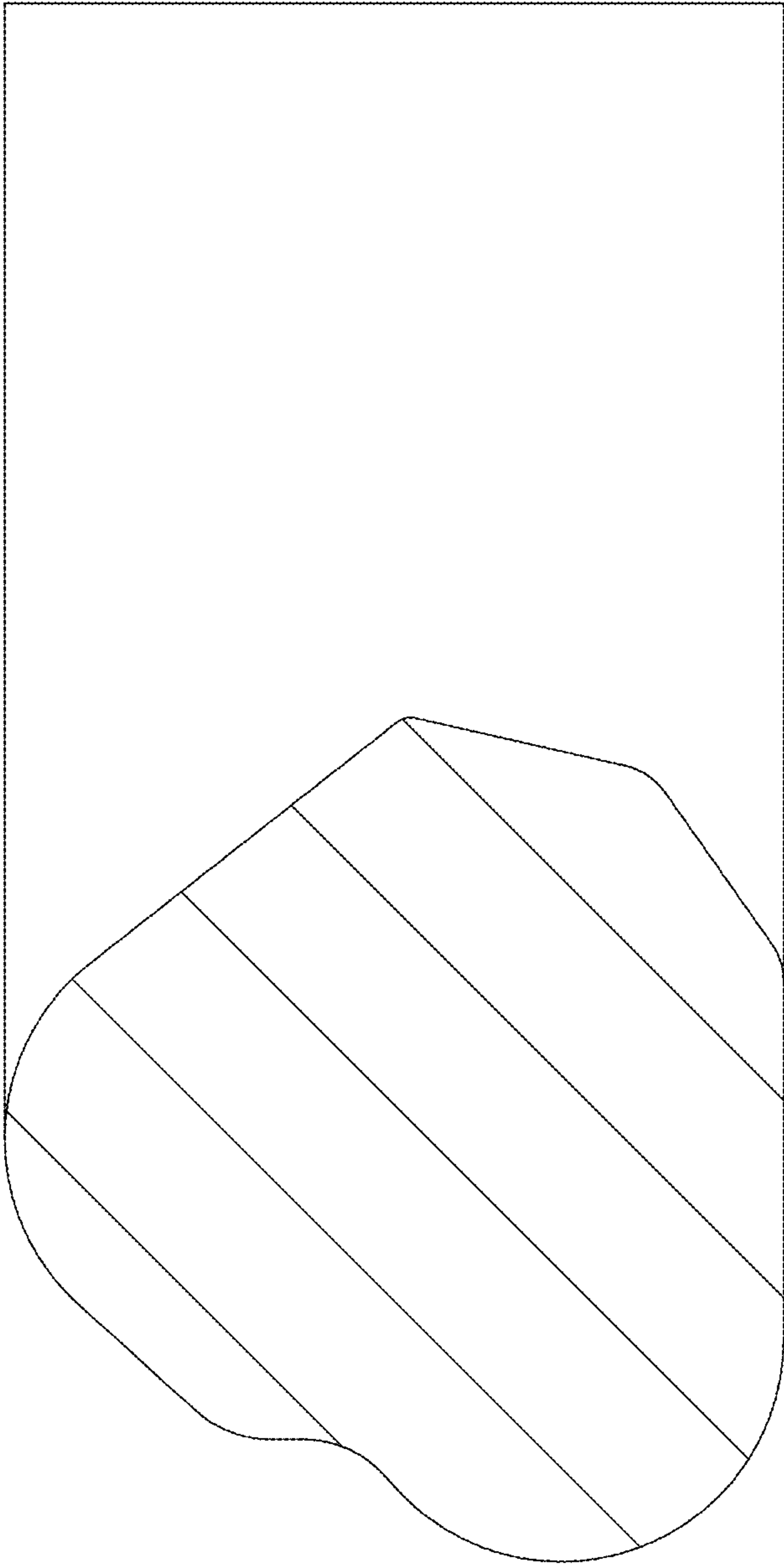


FIG. 17

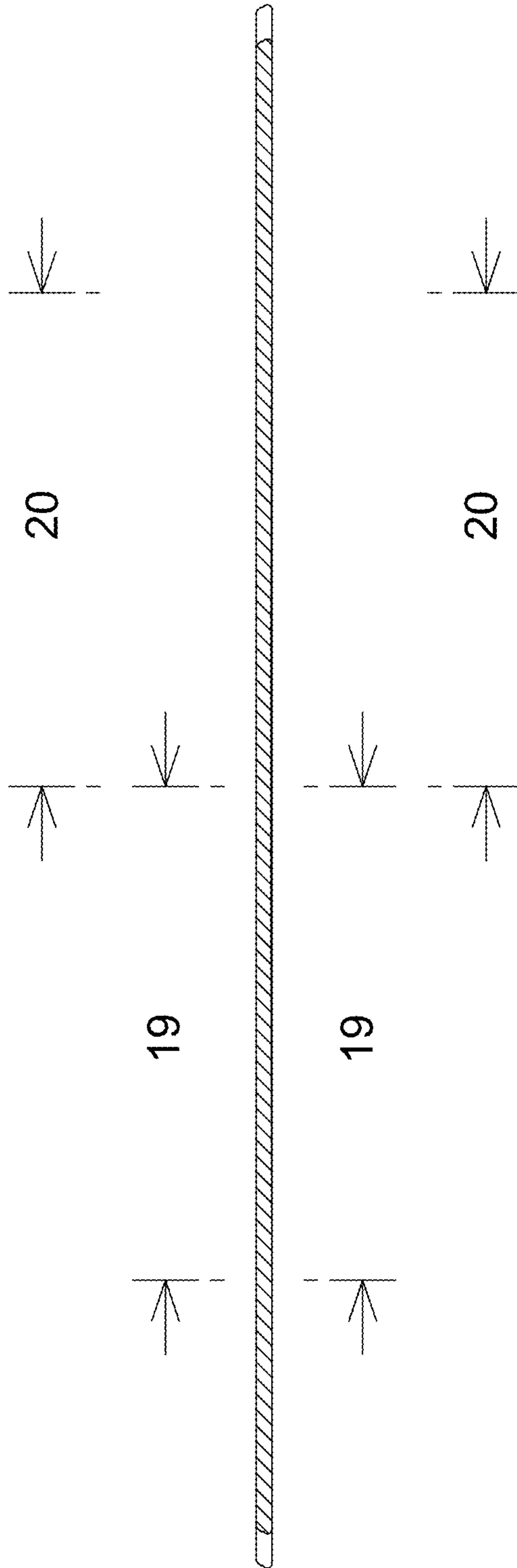


FIG. 18



FIG. 19



**FIG. 20**



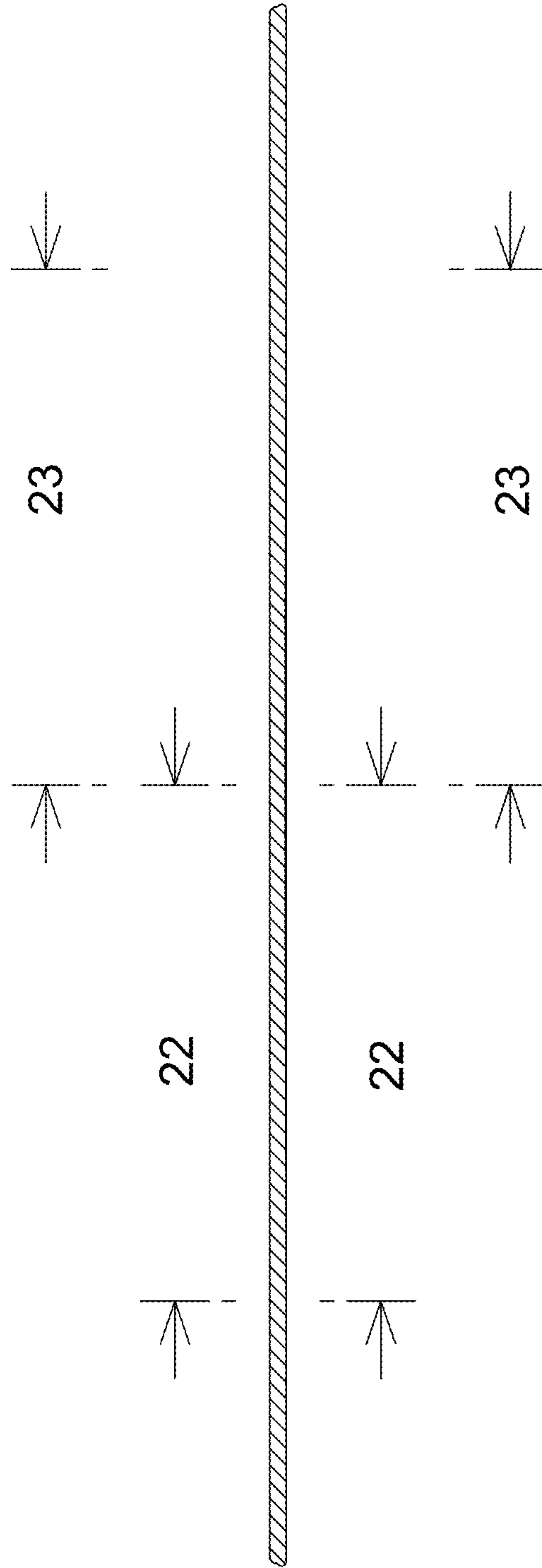


FIG. 21



**FIG. 22**



**FIG. 23**