



US00D698017S

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

(10) **Patent No.:** **US D698,017 S**
(45) **Date of Patent:** **** Jan. 21, 2014**

(54) **FILTER ADAPTOR**
(75) Inventor: **Daniel Modesto**, Plainfield, IL (US)
(73) Assignee: **TDC Filter Manufacturing, Inc.**, Niles, IL (US)

4,015,961 A 4/1977 Howard et al.
D244,533 S * 5/1977 Eidelberg et al. D23/269
4,042,356 A 8/1977 Miller
4,073,632 A 2/1978 Reinauer et al.
4,194,894 A 3/1980 Noland
4,209,310 A 6/1980 Berkhoel

(Continued)

(**) Term: **14 Years**

FOREIGN PATENT DOCUMENTS

(21) Appl. No.: **29/428,063**

EP 1062997 A2 12/2000
WO 9836819 A1 8/1998
WO 2007109563 A2 9/2007
WO 2007109563 A3 9/2007

(22) Filed: **Jul. 25, 2012**

(51) **LOC (10) Cl.** **23-04**

(52) **U.S. Cl.**
USPC **D23/365**

(58) **Field of Classification Search**
USPC D23/365, 209, 363, 358, 386, 354, 341,
D23/364, 269, 262, 266, 393; 55/385.3,
55/502, 497, 506, 505, 521, 495, 422, 493,
55/DIG. 30, DIG. 26; 210/435, 130, 136,
210/248, 339, 448, 452, 497.1; 204/298.11,
204/298.02; 277/602; 248/62-64; D32/31;
D15/5

OTHER PUBLICATIONS

AK Industries, Inc.; 2002 Catalog for "Poly Sump & Sewage Basins"; cover page, copyright page, and p. 10; dated Jun. 2002.

(Continued)

Primary Examiner — David Muller
(74) *Attorney, Agent, or Firm* — Ungaretti & Harris LLP

See application file for complete search history.

(57) **CLAIM**
I claim the ornamental design for a filter adaptor, as shown and described.

(56) **References Cited**

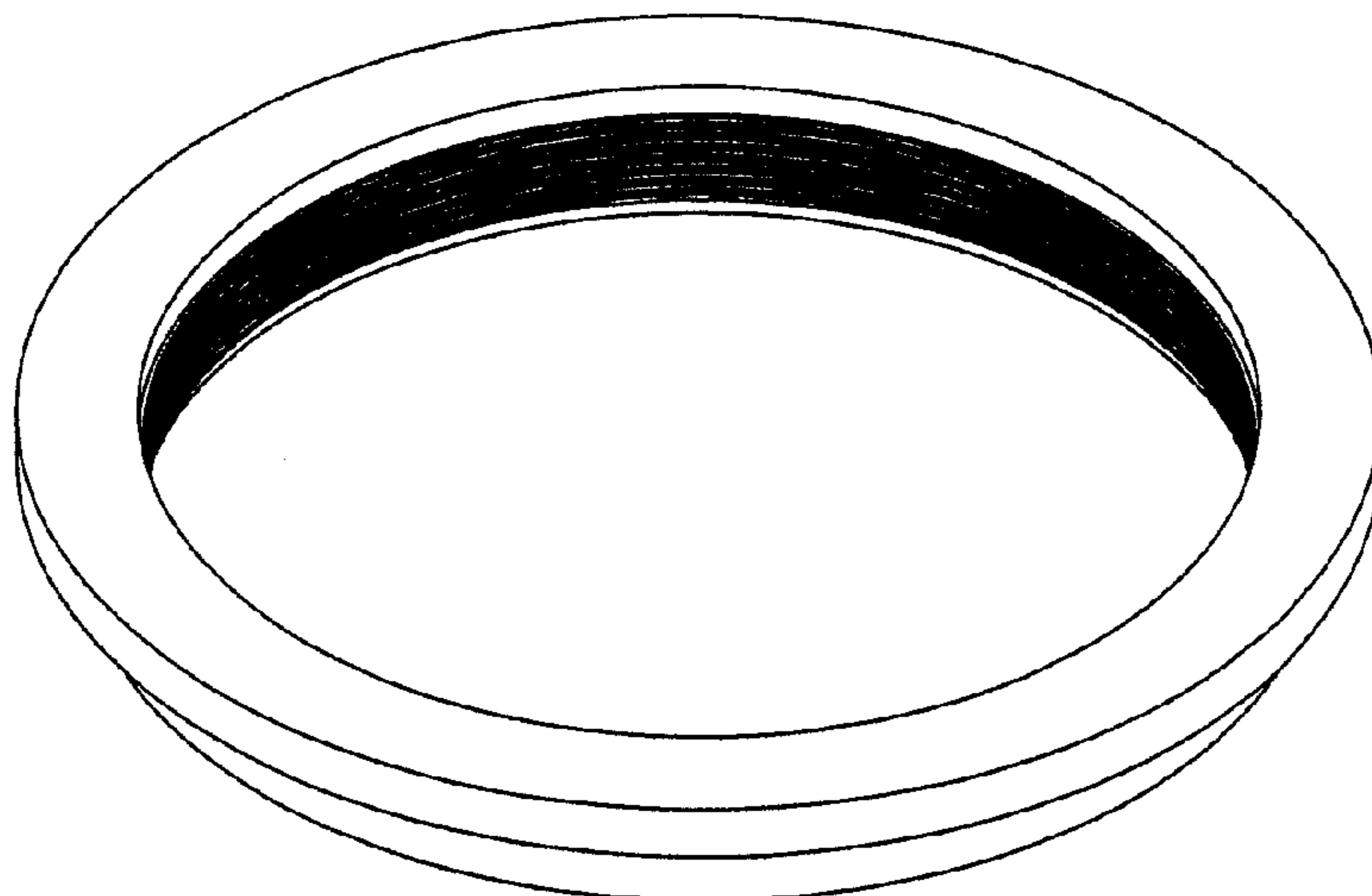
DESCRIPTION

U.S. PATENT DOCUMENTS

2,308,310 A 1/1943 Ruemelin, Jr. et al.
2,338,504 A 1/1944 Foster
2,574,412 A 11/1951 Pringle
3,078,650 A 2/1963 Anderson et al.
3,097,410 A 7/1963 Lincoln
3,170,777 A 2/1965 Held
3,186,551 A 6/1965 Dornauf
3,361,260 A 1/1968 Buckman
3,420,377 A 1/1969 Vandersip
3,538,687 A 11/1970 Pausch
3,577,486 A 5/1971 Sebok
3,618,300 A 11/1971 Pausch
4,007,026 A 2/1977 Groh

FIG. 1 is a perspective view of my ornamental design of a filter adaptor;
FIG. 2 is a top plan view of the filter adaptor of FIG. 1;
FIG. 3 is a bottom plan view of the filter adaptor of FIG. 1;
FIG. 4 is a side elevation view of the filter adaptor of FIG. 1;
FIG. 5 is a side section view of the filter adaptor along line 5-5 of FIG. 1, showing the inside surface visible in FIG. 2; and,
FIG. 6 is a detail section view of the filter adaptor along line 6 of FIG. 5.

1 Claim, 3 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,218,227 A 8/1980 Frey
 4,220,459 A 9/1980 Hammond et al.
 4,266,954 A 5/1981 Oare et al.
 4,272,263 A 6/1981 Hancock
 4,289,511 A 9/1981 Johnson, Jr.
 4,291,904 A 9/1981 Iversen et al.
 4,292,057 A 9/1981 Ulvestad et al.
 4,306,893 A 12/1981 Fernando et al.
 4,310,336 A 1/1982 Peterson
 4,322,231 A 3/1982 Hilzendeger et al.
 4,344,718 A 8/1982 Taylor
 4,345,924 A 8/1982 Margraf
 4,395,269 A 7/1983 Schuler
 4,424,070 A 1/1984 Robinson
 4,435,197 A 3/1984 Nijhawan et al.
 4,436,536 A 3/1984 Robinson
 4,443,237 A 4/1984 Ulvestad
 4,445,915 A 5/1984 Robinson
 D285,109 S * 8/1986 Jornhagen D23/269
 D285,247 S 8/1986 Jornhagen
 4,704,144 A 11/1987 LeBlanc et al.
 4,775,398 A 10/1988 Howeth
 4,820,320 A 4/1989 Cox
 4,871,380 A 10/1989 Meyers
 4,955,996 A 9/1990 Edwards et al.
 5,057,131 A 10/1991 Lackner et al.
 5,061,303 A 10/1991 Williams et al.
 5,062,872 A 11/1991 Williams et al.
 5,066,318 A 11/1991 McDonough
 D334,051 S * 3/1993 Fell, Sr. D23/262
 5,290,441 A 3/1994 Griffin et al.
 5,308,369 A 5/1994 Morton et al.
 5,308,485 A 5/1994 Griffin et al.
 5,487,767 A 1/1996 Brown
 5,536,290 A 7/1996 Stark et al.
 5,562,746 A 10/1996 Raether
 5,587,071 A 12/1996 Belden
 5,613,992 A 3/1997 Engel
 D379,493 S * 5/1997 Woods D23/269
 5,632,791 A 5/1997 Oussoren et al.
 5,730,766 A 3/1998 Clements
 5,746,792 A 5/1998 Clements et al.
 5,785,724 A 7/1998 Johnson
 5,803,941 A 9/1998 Berkhoel et al.
 5,885,314 A 3/1999 Oussoren et al.
 5,895,510 A 4/1999 Butler et al.
 5,897,676 A 4/1999 Engel et al.
 5,938,804 A 8/1999 Engel et al.
 5,954,849 A 9/1999 Berkhoel et al.
 5,964,909 A 10/1999 Brunner
 5,972,059 A 10/1999 Morgan
 6,017,378 A 1/2000 Oussoren et al.
 D437,034 S 1/2001 Stout, Jr.
 6,203,591 B1 3/2001 Clements et al.
 6,214,077 B1 4/2001 Bitner et al.
 RE37,163 E 5/2001 Oussoren et al.
 D449,621 S * 10/2001 Hamlin D15/5
 6,299,662 B1 10/2001 Poulsen
 6,322,602 B2 11/2001 Engel et al.
 6,358,292 B1 3/2002 Clements
 6,364,921 B1 4/2002 Raether et al.
 6,368,388 B1 4/2002 Kosminder et al.
 6,368,390 B1 4/2002 Bitner et al.
 6,387,162 B1 5/2002 Kosminder et al.
 6,488,746 B1 12/2002 Kosminder et al.
 6,511,599 B2 1/2003 Jaroszczyk et al.
 6,569,219 B1 5/2003 Connor et al.

6,579,348 B1 6/2003 Winter et al.
 6,626,970 B2 9/2003 Pipkorn et al.
 6,706,087 B1 3/2004 Gebler et al.
 6,712,870 B1 3/2004 Stamey, Jr. et al.
 6,726,735 B1 4/2004 Oussoren et al.
 6,790,250 B2 9/2004 Pipkorn et al.
 6,858,052 B2 2/2005 Clements
 D513,072 S * 12/2005 Berg D23/386
 6,974,491 B1 12/2005 Kendall
 D515,675 S * 2/2006 Tremoulet et al. D23/269
 D518,885 S * 4/2006 Stout et al. D23/393
 7,063,730 B2 6/2006 Connor et al.
 D534,253 S 12/2006 Sandman et al.
 7,186,284 B2 3/2007 Clements
 7,264,656 B2 9/2007 Kosminder et al.
 D553,238 S 10/2007 Haggkvist
 7,294,161 B2 11/2007 Connor et al.
 D556,867 S 12/2007 Darce
 D557,387 S 12/2007 Darce
 D557,771 S 12/2007 Darce
 7,323,106 B2 1/2008 Jaroszczyk et al.
 D572,348 S 7/2008 Arosio
 7,404,839 B2 7/2008 Modesto et al.
 D574,934 S 8/2008 Darce et al.
 D598,988 S 8/2009 Jaccoby et al.
 7,597,734 B2 10/2009 Johnson et al.
 D605,739 S 12/2009 Henry et al.
 7,670,398 B2 3/2010 Modesto
 7,670,403 B2 3/2010 Modesto et al.
 7,740,678 B2 6/2010 Gunderson et al.
 D626,208 S * 10/2010 Clements D23/386
 D631,142 S * 1/2011 Angell D23/262
 D638,523 S * 5/2011 Yoshida et al. D23/269
 D646,764 S * 10/2011 Rusconi D23/269
 D650,053 S * 12/2011 Douglass, III D23/269
 8,157,880 B2 4/2012 Muenkel
 2004/0237483 A1 12/2004 Clements
 2005/0055989 A1 3/2005 Morgan
 2007/0158277 A1 7/2007 Bachand et al.
 2008/0302074 A1 12/2008 Gebert et al.
 2009/0266048 A1 10/2009 Schwarz
 2010/0313533 A1 12/2010 Muenkel
 2011/0162336 A1 7/2011 Poulsen

OTHER PUBLICATIONS

Kleissler Company; "Removal/Replacement of Filter Tube," from Operating and Maintenance Manual; 1 page; May 30, 2000; retrieved from file for Reexamination No. 95/000,646.
 Examiner's Decision in Reexamination No. 95/000,646; Jan. 12, 2012 (13 pages).
 McMaster-Carr Supply Company; Catalog 107; cover page, copyright page, and p. 3280; 2002 (3 pages).
 iFil USA, LLC; Requester's Replacement Statement and Explanation under 37 C.F.R. 1.915(b)(3) for Request for Inter Partes Reexamination in Reexamination No. 95/000,646; Feb. 11, 2012; 20 pages.
 International Search Report and Written Opinion for PCT/US07/64207 mailed Oct. 16, 2007.
 International Search Report and Written Opinion for PCT/US2012/71746 mailed Mar. 7, 2013.
 AK industries, Inc.; Catalog: "Adaptaflex Fittings"; date unknown; retrieved from file for Reexamination No. 95/000,646.
 Photographs of pipe filters attached as Exhibit A to Affidavit of J. Clements submitted on Apr. 9, 2012 in Reexamination No. 95/000,646 (2 pages).
 Torit II, D.; "Downflo Oval 1 Dust Collectors"; published Sep. 1, 2002.

* cited by examiner

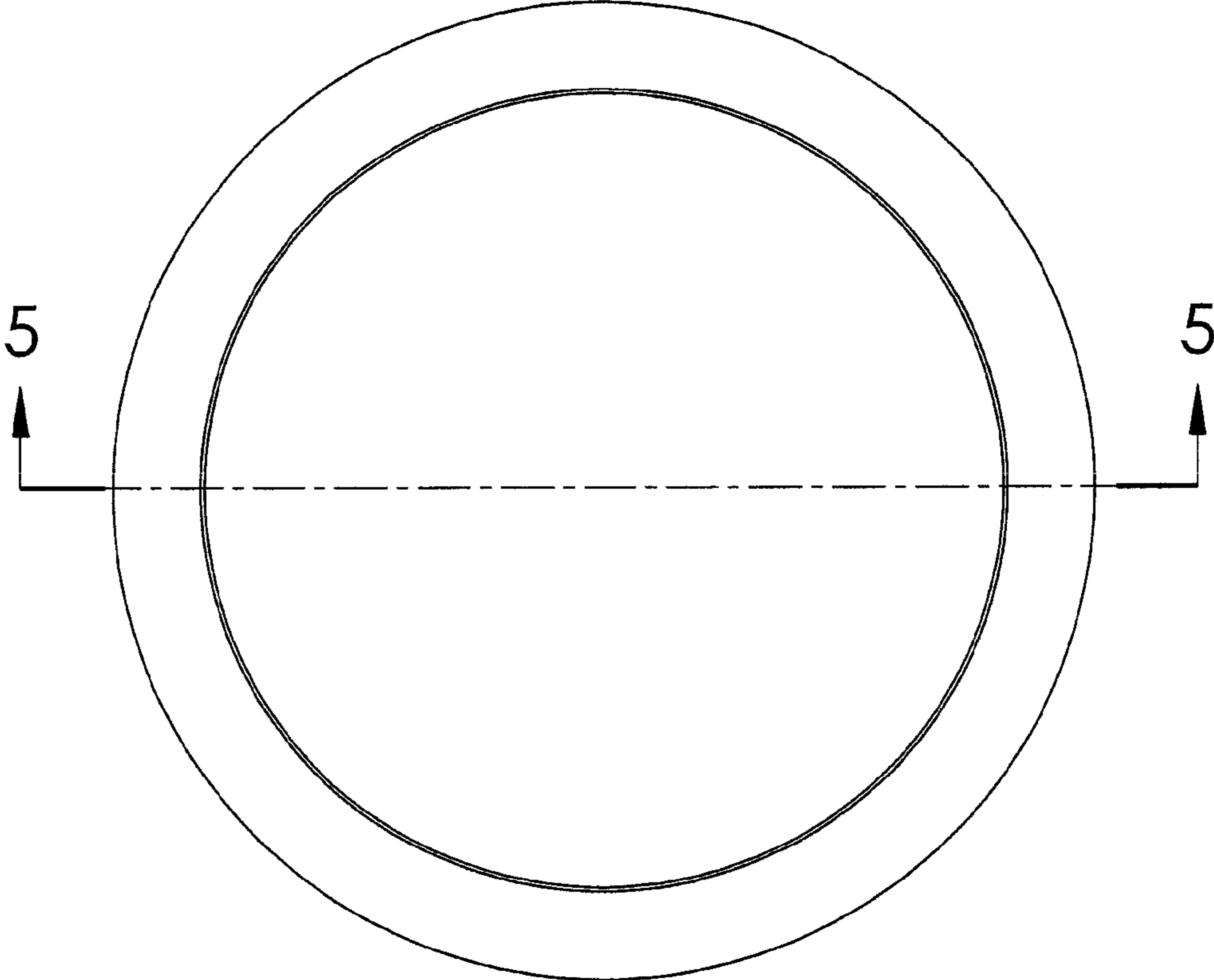


FIG. 1

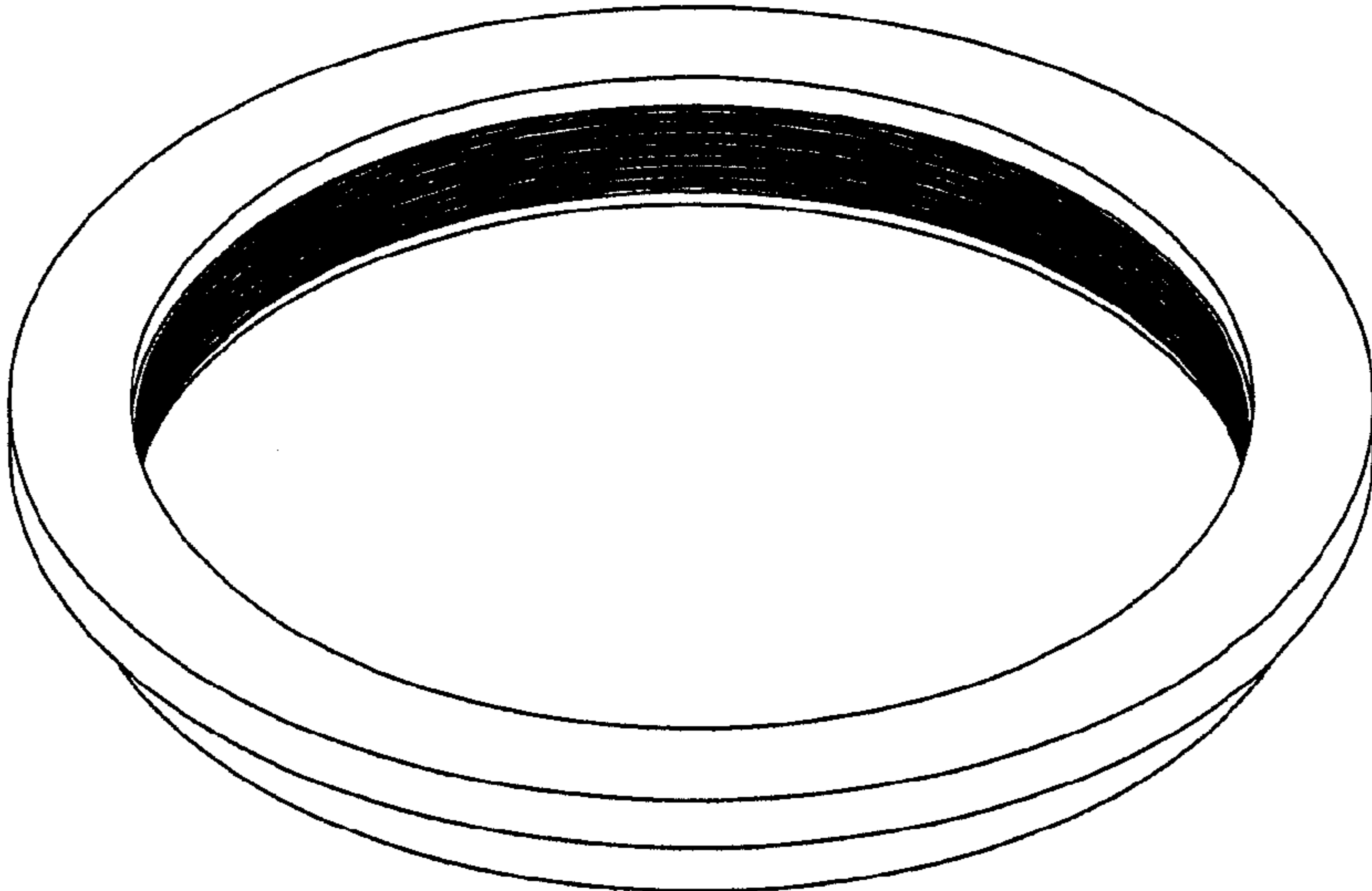


FIG. 2

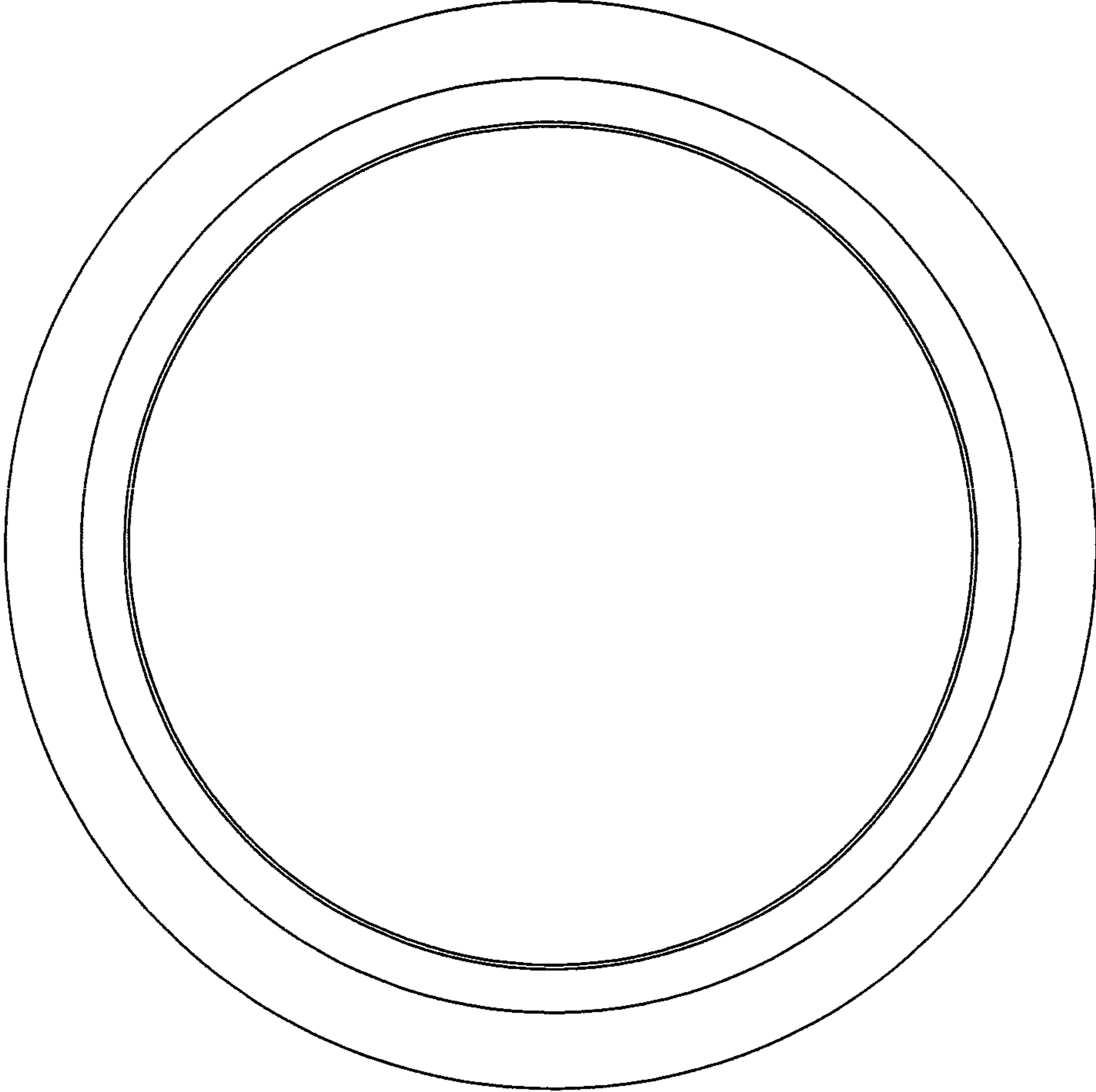


FIG. 3

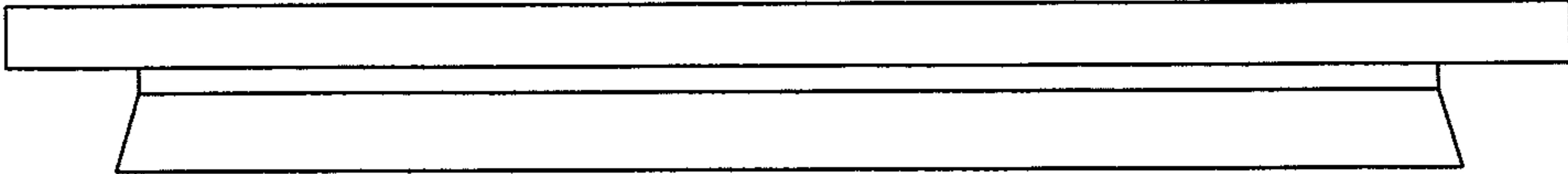


FIG. 4

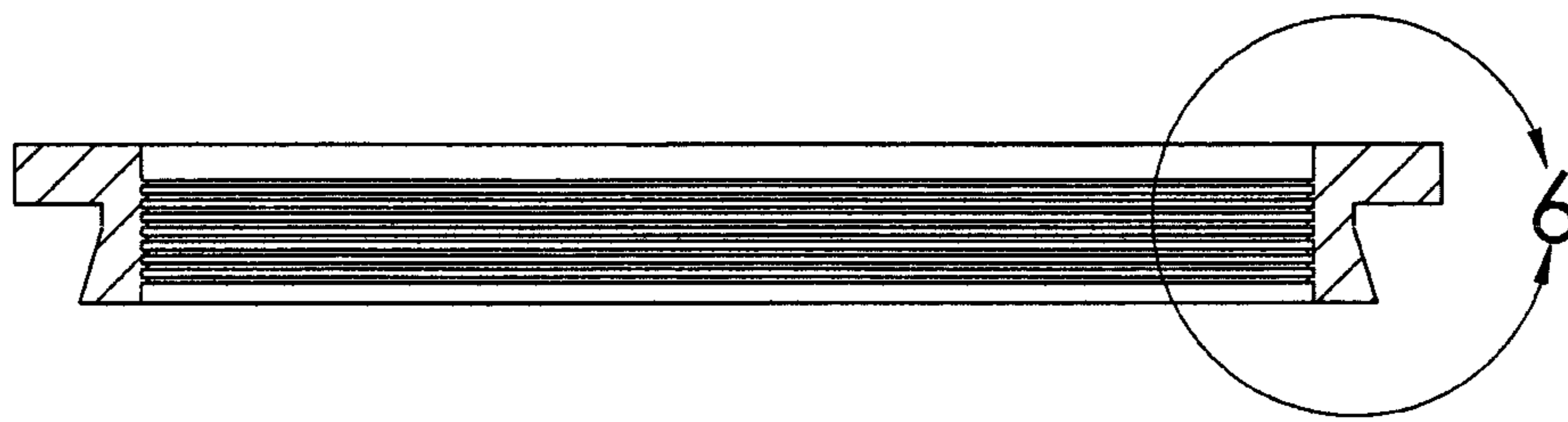


FIG. 5

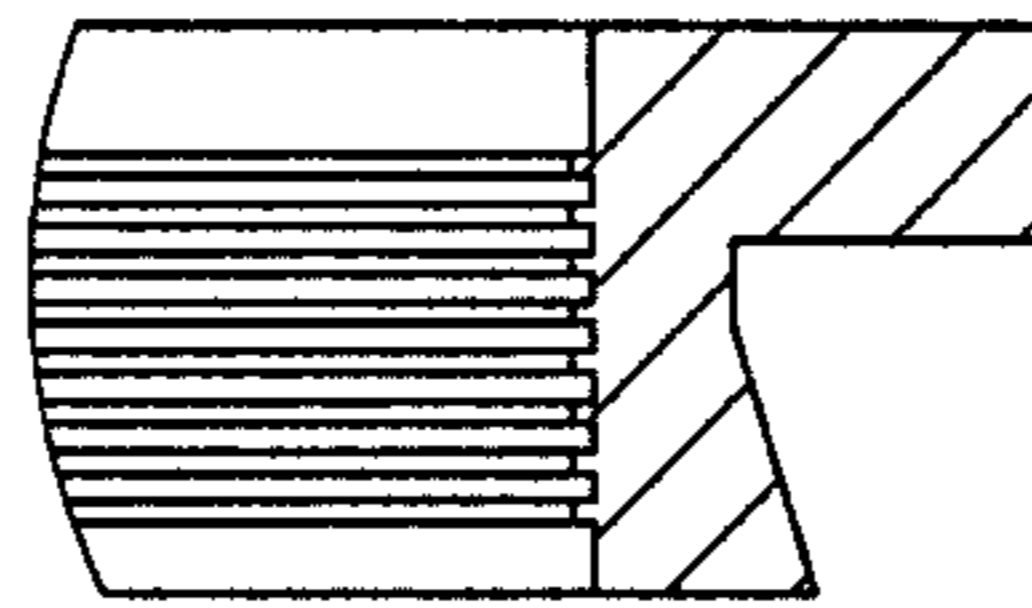


FIG. 6