



US00D842565S

(12) **United States Design Patent** (10) **Patent No.:** **US D842,565 S**
Davis et al. (45) **Date of Patent:** **** Mar. 5, 2019**

(54) **CLEANING DEVICE FOR ENTERAL FLUID COUPLINGS**

5,123,763 A 6/1992 Simmons
D335,223 S * 5/1993 Shumway D28/63
D336,160 S * 6/1993 Shumway D28/63
5,214,820 A 6/1993 Shumway et al.

(71) Applicant: **NEOMED, INC.**, Woodstock, GA (US)

(Continued)

(72) Inventors: **Benjamin M. Davis**, Woodstock, GA (US); **Aaron N. Ingram**, Canton, GA (US)

FOREIGN PATENT DOCUMENTS

(73) Assignee: **NEOMED, INC.**, Woodstock, GA (US)

DE 202009009091 U1 9/2009
JP 2001309973 A 11/2001

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

OTHER PUBLICATIONS

(21) Appl. No.: **29/555,727**

International Search Report & Written Opinion for PCT/U52016/015339; May 2, 2016; 13 pgs.

(22) Filed: **Feb. 24, 2016**

(Continued)

Related U.S. Application Data

Primary Examiner — Michelle E. Wilson

(63) Continuation-in-part of application No. 15/009,073, filed on Jan. 28, 2016, now Pat. No. 9,931,176.

(74) *Attorney, Agent, or Firm* — Gardner Groff Greenwald & Villanueva, P.C.

(51) **LOC (11) Cl.** **15-05**

(57) **CLAIM**

(52) **U.S. Cl.**
USPC **D32/35**

The ornamental design for a cleaning device for enteral fluid couplings, substantially as shown and described.

(58) **Field of Classification Search**
USPC D32/40–45, 50–52; D9/719, 723–725
CPC .. A46D 3/00; A61F 2/44; A46B 11/00; A47K 7/028; A01K 63/04; A47L 13/16; A47L 13/12

DESCRIPTION

See application file for complete search history.

FIG. 1 is a first perspective view of the cleaning device for enteral fluid couplings according to the design.
FIG. 2 is a second perspective view of the cleaning device of FIG. 1.
FIG. 3 is a first side view of the cleaning device of FIG. 1, the opposite side view being substantially identical.
FIG. 4 is a top view of the cleaning device of FIG. 1, the bottom view being substantially identical.
FIG. 5 is a first end view of the cleaning device of FIG. 1; and,
FIG. 6 is a second end view of the cleaning device of FIG. 1.

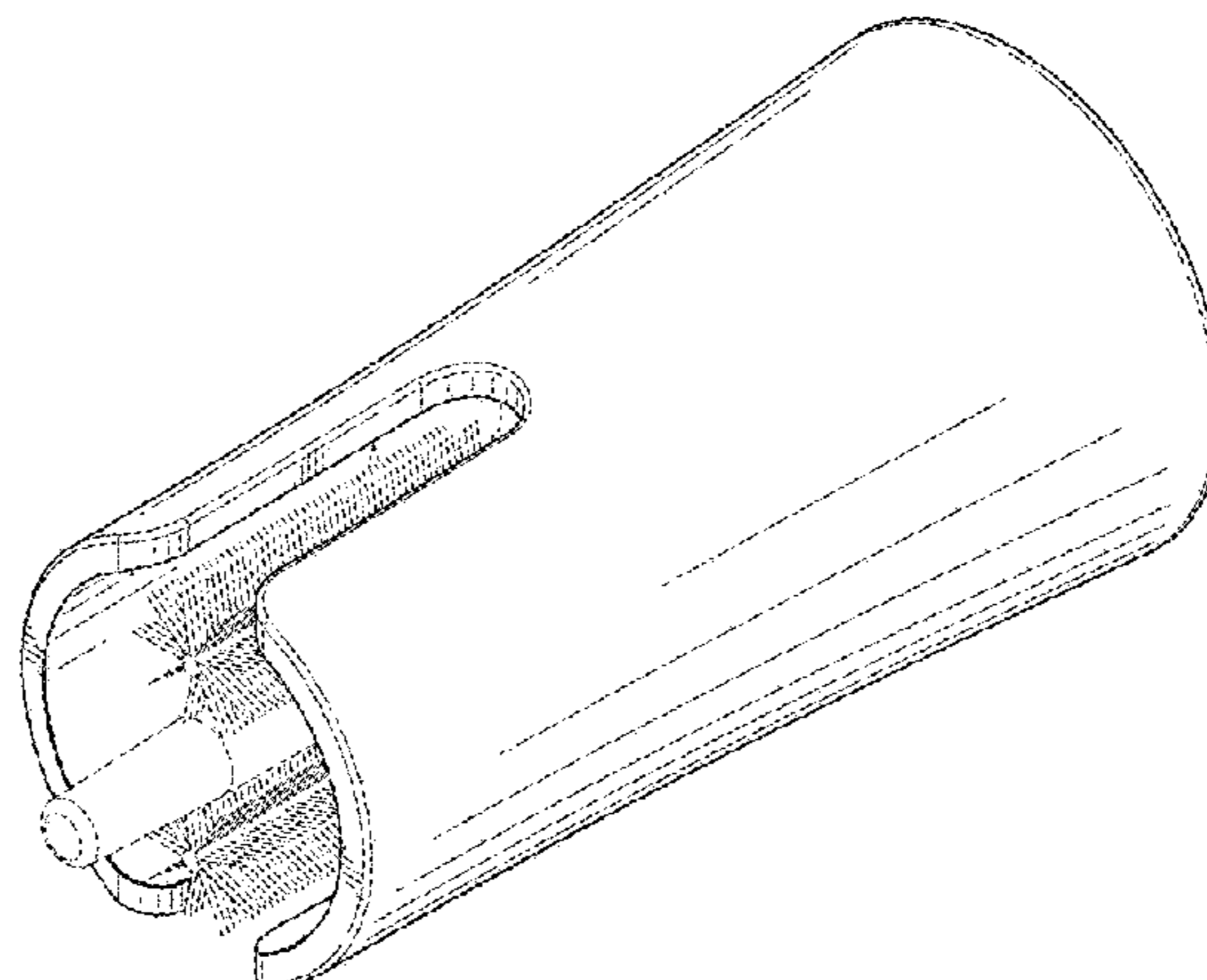
(56) **References Cited**

U.S. PATENT DOCUMENTS

1,523,754 A 1/1925 Chippeaux
1,710,127 A 4/1929 Vaughn
1,759,739 A 5/1930 Ferris
2,190,216 A 2/1940 Nunziato
2,629,888 A 3/1953 Sauer
2,893,029 A 7/1959 Vosbikian et al.
3,231,921 A 2/1966 Cuervo
3,317,944 A 5/1967 Napier, Sr. et al.
4,575,892 A 3/1986 Ross

Portions shown in broken lines are for illustrative purposes only and form no part of the claimed design.

1 Claim, 2 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,222,271 A 6/1993 Eganhouse
 5,564,149 A 10/1996 Matesic et al.
 5,875,509 A * 3/1999 Facca A47L 13/12
 15/118
 6,202,247 B1 3/2001 Lorenz, Jr.
 6,250,315 B1 6/2001 Ernster
 D449,909 S * 10/2001 Randolph D32/40
 6,349,443 B1 2/2002 Randolph et al.
 6,363,948 B2 4/2002 Choi
 6,663,309 B2 * 12/2003 Zamansky B43K 8/12
 401/205
 6,754,932 B2 6/2004 Buzard
 6,935,802 B1 8/2005 Byun
 7,198,611 B2 4/2007 Connell et al.
 7,234,474 B2 6/2007 Byun
 7,526,830 B2 5/2009 Forrest et al.
 7,543,348 B2 6/2009 Le
 7,763,013 B2 7/2010 Baldwin et al.
 8,061,518 B2 11/2011 Shaughness
 8,065,773 B2 11/2011 Vaillancourt et al.
 8,079,106 B2 12/2011 Yang
 8,172,825 B2 5/2012 Solomon et al.
 8,197,749 B2 6/2012 Howlett et al.
 8,214,961 B2 7/2012 Vinci et al.
 8,252,247 B2 8/2012 Ferlic
 8,336,151 B2 12/2012 Kerr et al.
 8,336,152 B2 12/2012 Vaillancourt et al.
 8,388,894 B2 3/2013 Colantonio et al.
 8,407,846 B2 4/2013 Chen et al.
 8,443,480 B2 5/2013 Zaytoun, Jr.

8,528,147 B2 9/2013 Larsson et al.
 8,740,864 B2 6/2014 Hoang et al.
 8,777,504 B2 7/2014 Shaw et al.
 8,808,637 B2 8/2014 Ferlic
 8,832,894 B2 9/2014 Rogers et al.
 8,925,138 B2 * 1/2015 Kluge, Jr. A46B 9/005
 15/209.1
 9,167,891 B2 10/2015 Shaughness
 D798,013 S * 9/2017 Chaffee D32/52
 2008/0052845 A1 3/2008 Djang
 2008/0295281 A1 12/2008 Kumaran
 2010/0050358 A1 3/2010 Kim
 2011/0314619 A1 12/2011 Schweikert
 2012/0024734 A1 2/2012 Shaughness
 2012/0124758 A1 5/2012 Sabisch et al.
 2012/0186032 A1 7/2012 Donohue et al.
 2013/0197485 A1 8/2013 Gardner et al.
 2014/0261558 A1 9/2014 Rogers et al.
 2015/0217106 A1 8/2015 Banik et al.
 2016/0007729 A1 1/2016 Kirkconnell-Shaughness
 2016/0214142 A1 7/2016 Davis et al.

OTHER PUBLICATIONS

Bard Site-Scrub; 1 pg; date unknown.
 EnClean Brush; 1 pg; date unknown.
 New ISO Tubing Connector Standards: A Follow-Up to the Sentinel
 Event Alert Webinar PowerPoint Presentation; www.ointcommission.
 org; 50 pgs; Dec. 3, 2014.
 New Tube Feeding Connectors Webinar PowerPoint Presentation;
 www.oley.org; 24 pgs; Jun. 24, 2014.

* cited by examiner

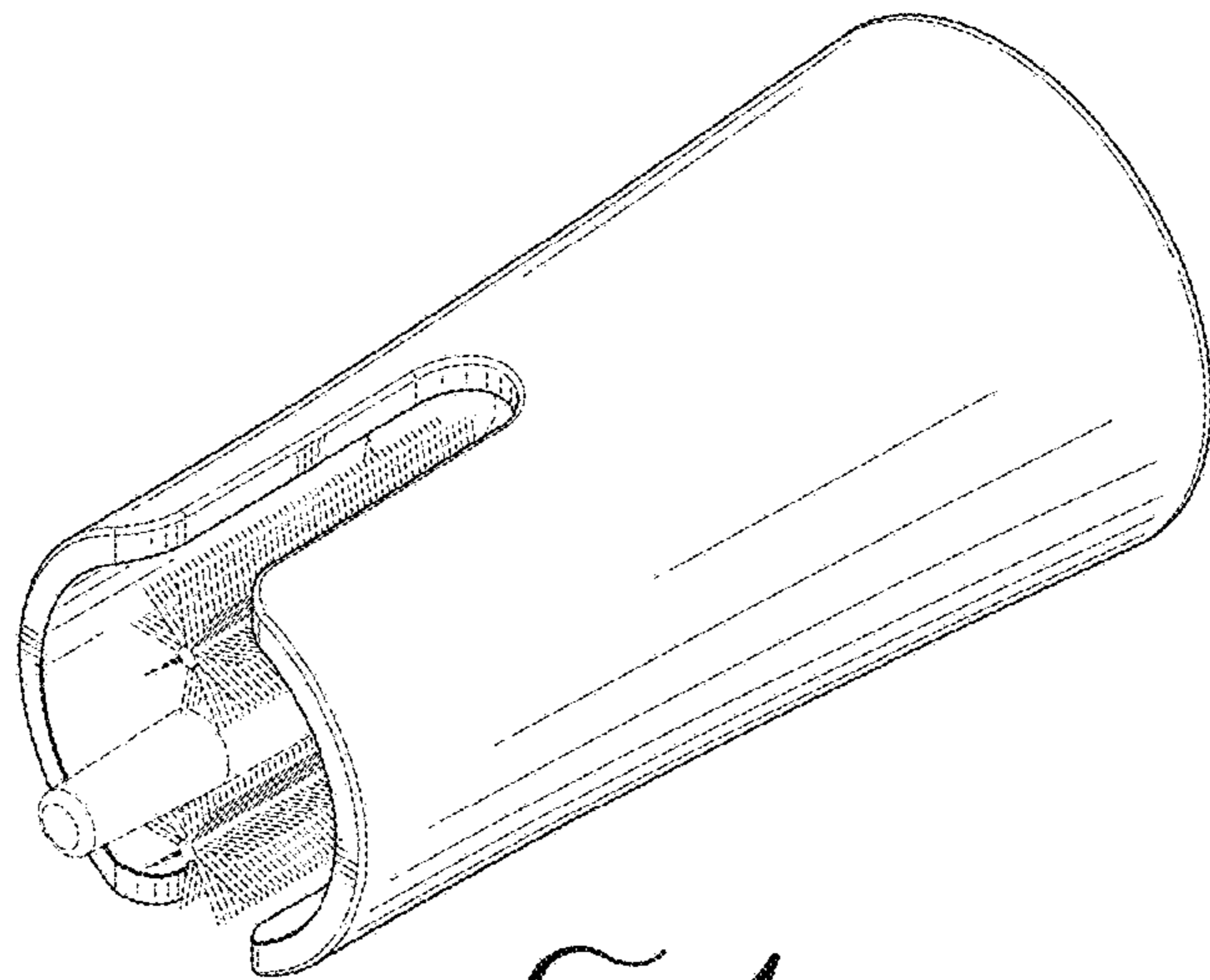


FIG. 1

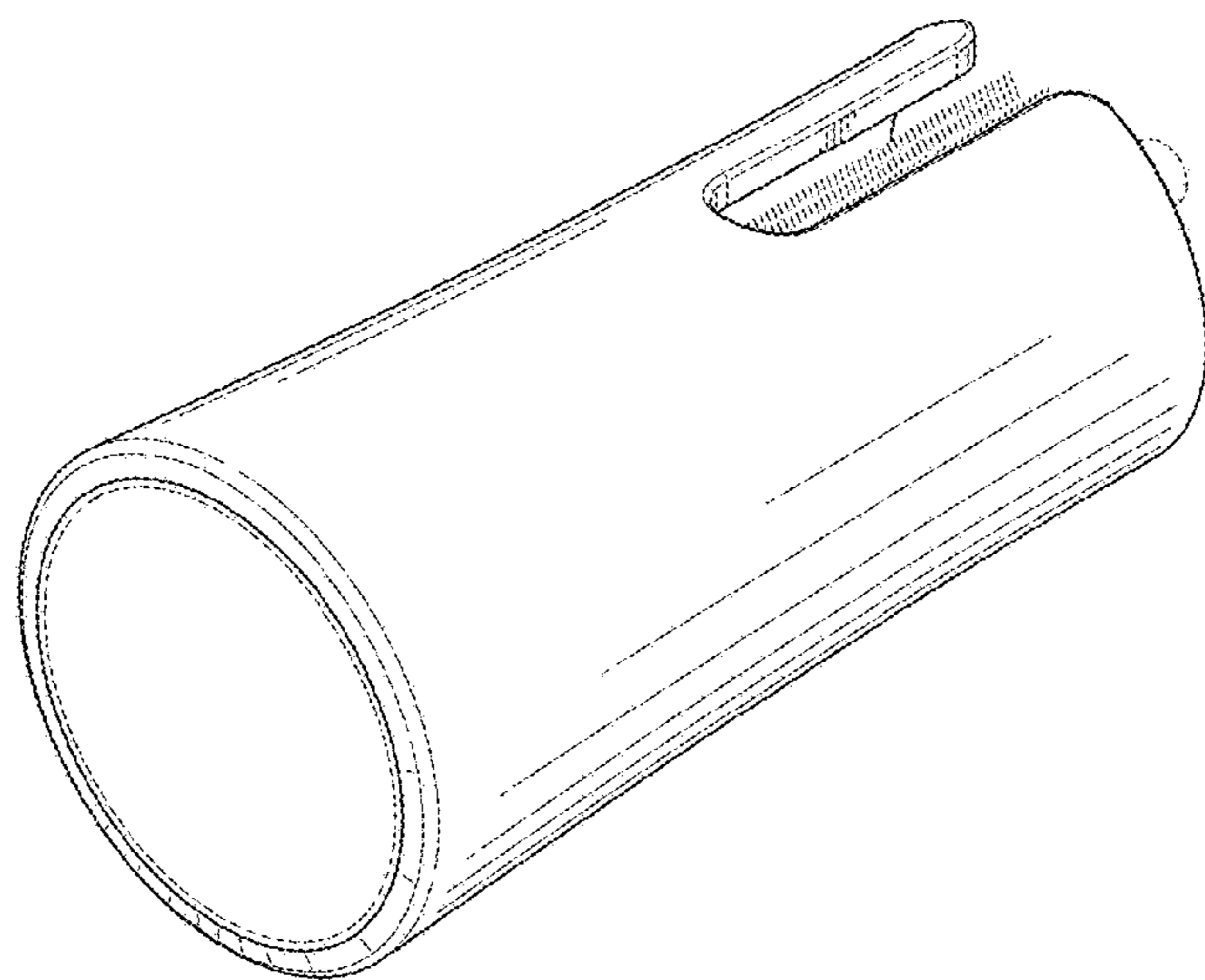


FIG. 2

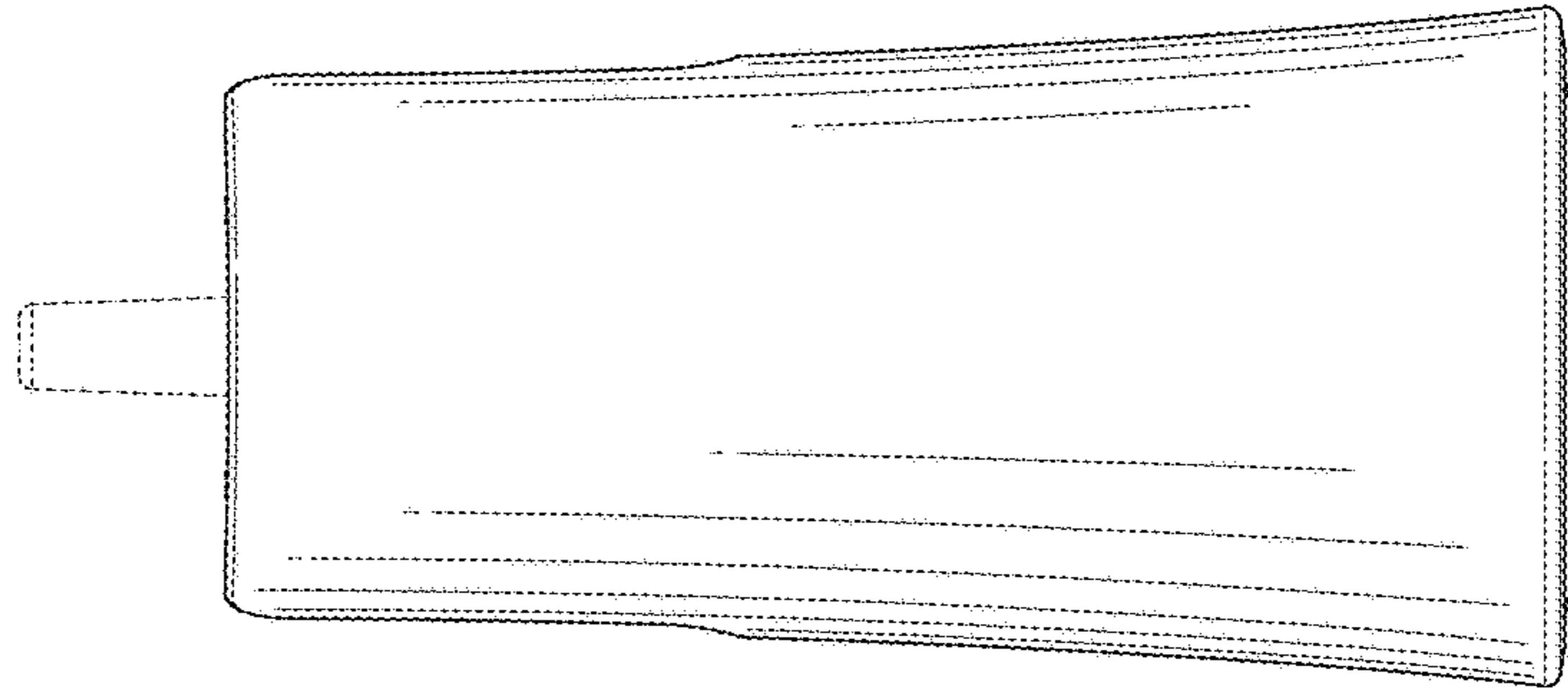


FIG. 3

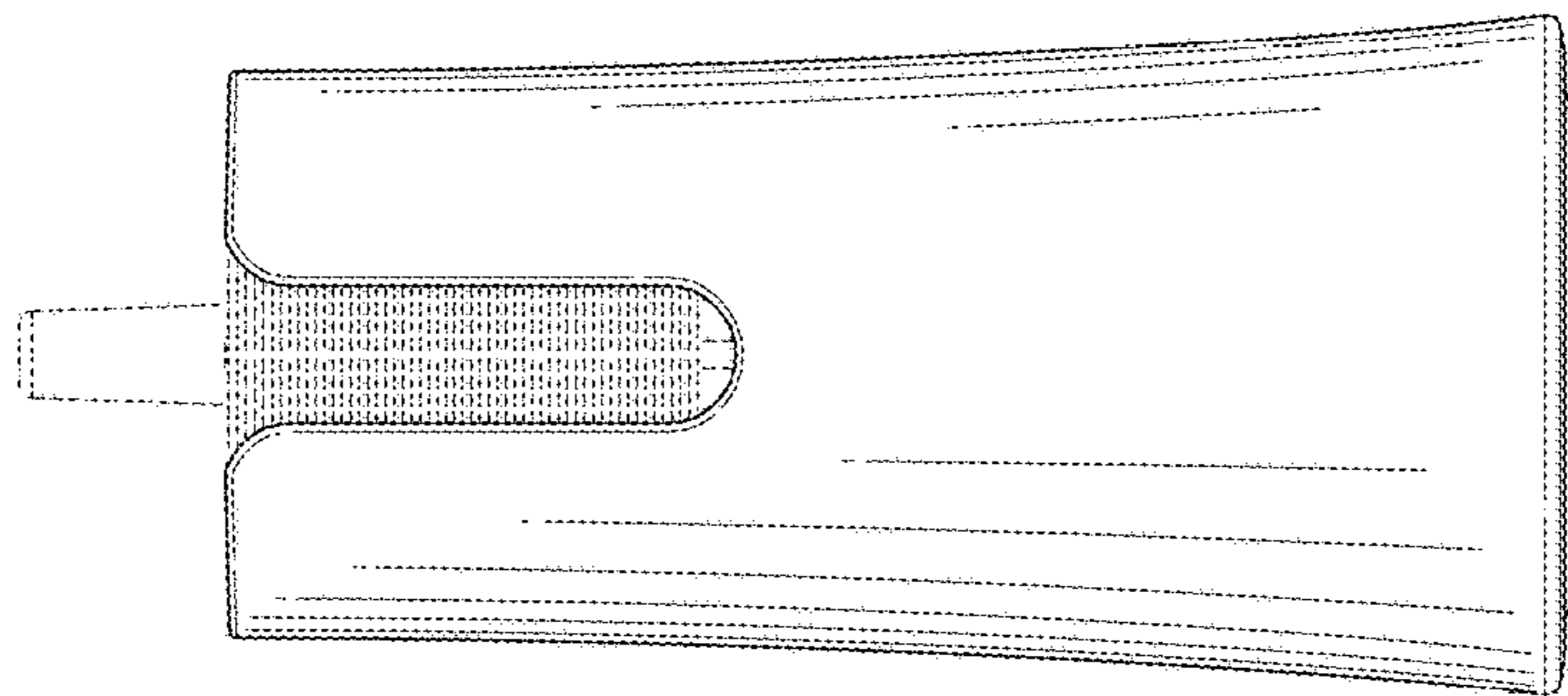


FIG. 4

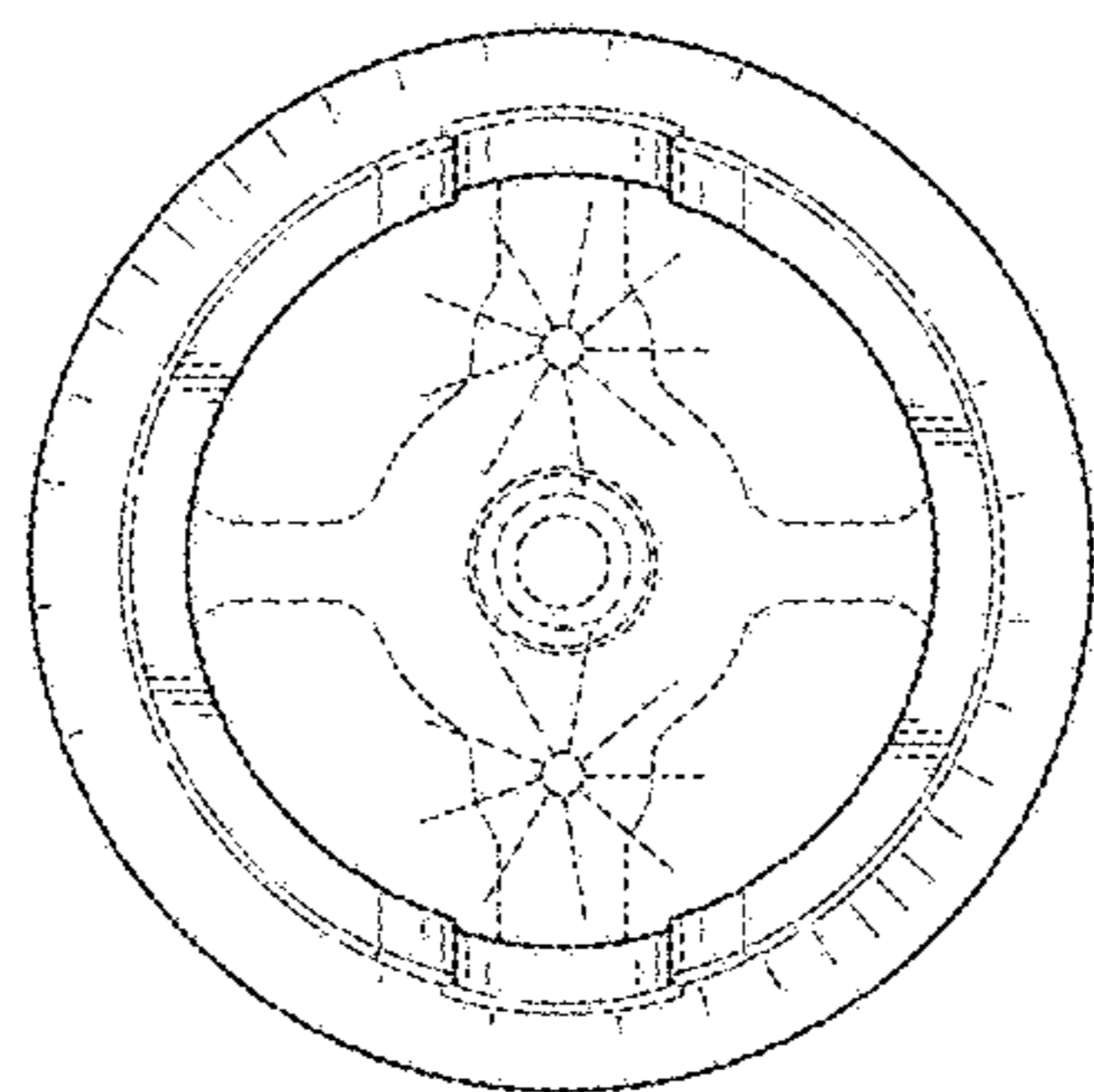


FIG. 5

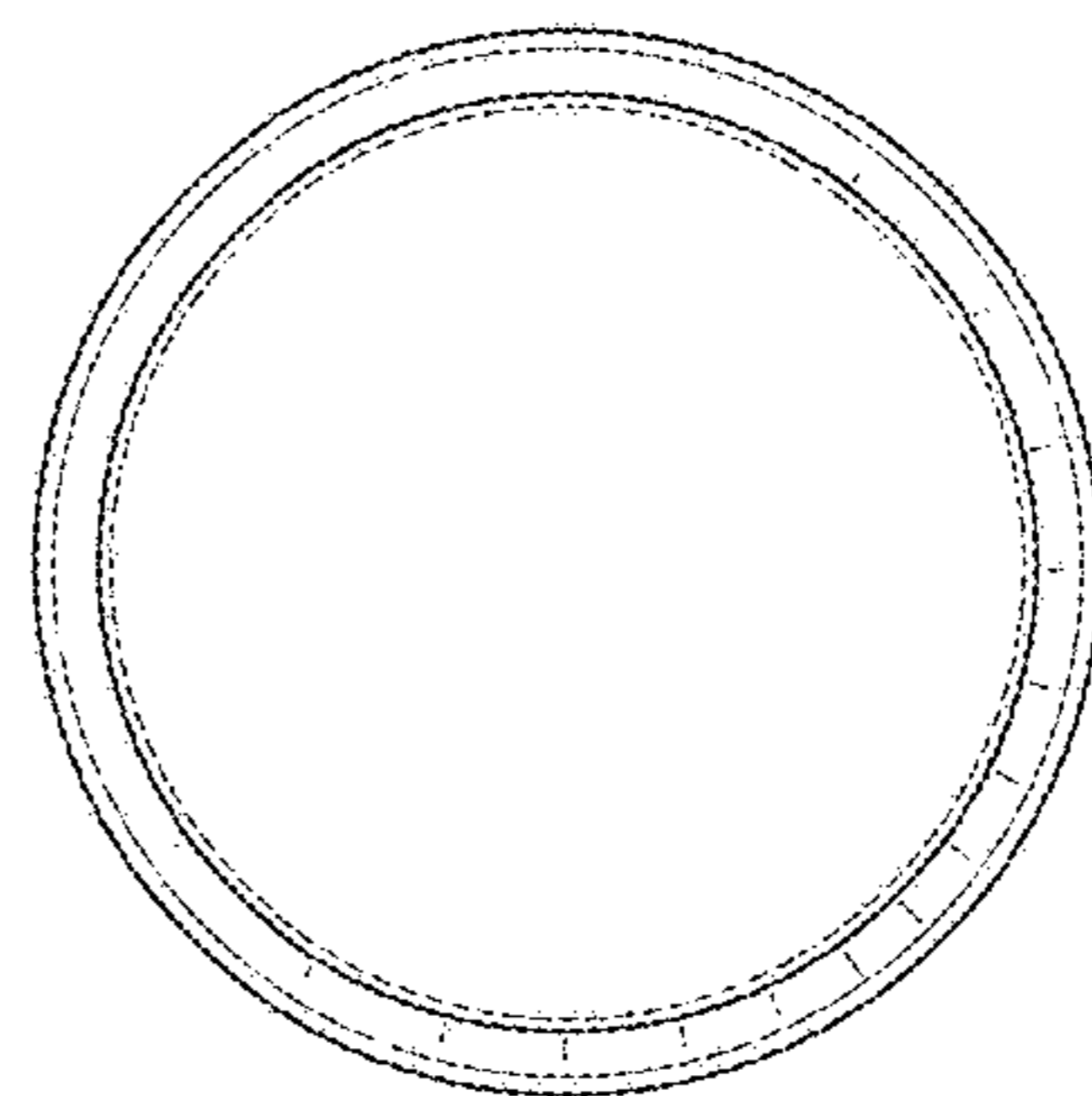


FIG. 6