



US00D959775S

(12) **United States Design Patent** (10) **Patent No.:** **US D959,775 S**  
**Davis et al.** (45) **Date of Patent:** **\*\* Aug. 2, 2022**

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

*Primary Examiner* — Richard E Chilcot  
(74) *Attorney, Agent, or Firm* — Dority & Manning, P.A.

(71) Applicant: **Avent, Inc.**, Alpharetta, GA (US)

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

(57) **CLAIM**

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

(73) Assignee: **Avent, Inc.**, Alpharetta, GA (US)

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

(21) Appl. No.: **29/676,820**

**DESCRIPTION**

(22) Filed: **Jan. 15, 2019**

**Related U.S. Application Data**

(60) Division of application No. 29/555,727, filed on Feb. 24, 2016, now Pat. No. Des. 842,565, which is a (Continued)

(51) **LOC (13) Cl.** ..... **15-05**

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

(58) **Field of Classification Search**  
USPC ..... D32/35, 40–52; D9/719, 723–725 (Continued)

FIG. 1 is a first perspective view of a 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.

FIG. 6 is a second end view of the cleaning device of FIG. 1.

FIG. 7 is an exploded perspective assembly view of the cleaning device of FIG. 1.

FIG. 8 is a first perspective view of the cleaning device for enteral fluid couplings according to another embodiment of the design.

FIG. 9 is a second perspective view of the cleaning device of FIG. 8.

FIG. 10 is a first side view of the cleaning device of FIG. 8, the opposite side view being substantially identical.

FIG. 11 is a top view of the cleaning device of FIG. 8, the bottom view being substantially identical.

FIG. 12 is a first end view of the cleaning device of FIG. 8; and,

FIG. 13 is a second end view of the cleaning device of FIG. 8.

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

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

1,523,754 A 1/1925 Chippeaux  
1,710,127 A 4/1929 Vaughn  
(Continued)

**FOREIGN PATENT DOCUMENTS**

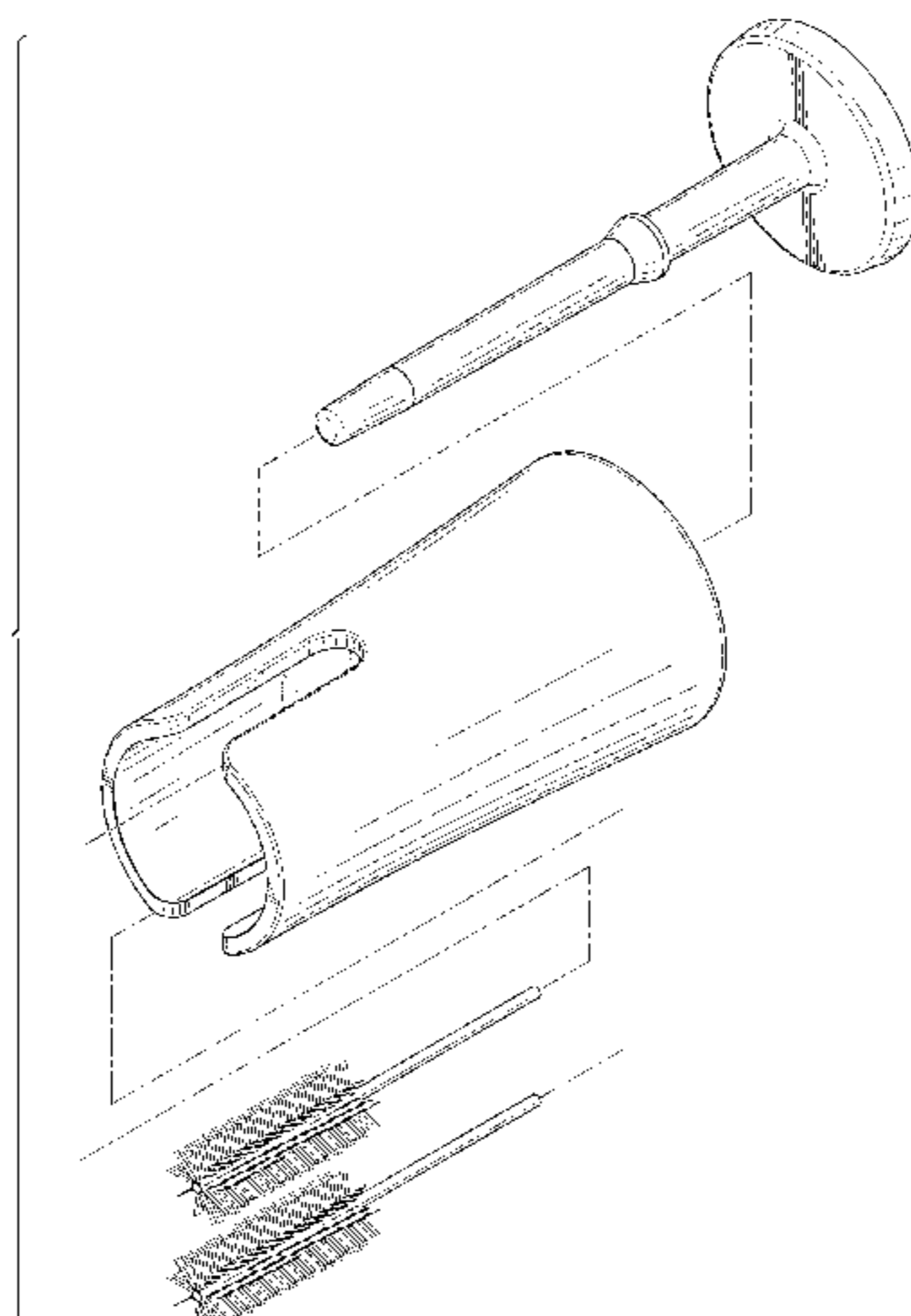
DE 202009009091 U1 9/2009  
JP 2001309973 A 11/2001

**OTHER PUBLICATIONS**

International Search Report & Written Opinion for PCT/US2016/015339; May 2, 2016; 13 pgs.

(Continued)

**1 Claim, 5 Drawing Sheets**



**Related U.S. Application Data**

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

(52) **U.S. Cl.**

CPC ..... *A46B 11/00* (2013.01)

(58) **Field of Classification Search**

CPC .. A46D 3/00; A61F 2/44; A46B 11/00; A47K  
7/028; A01K 63/04; A47L 13/16; A47L  
13/12

See application file for complete search history.

(56)

**References Cited**

U.S. PATENT DOCUMENTS

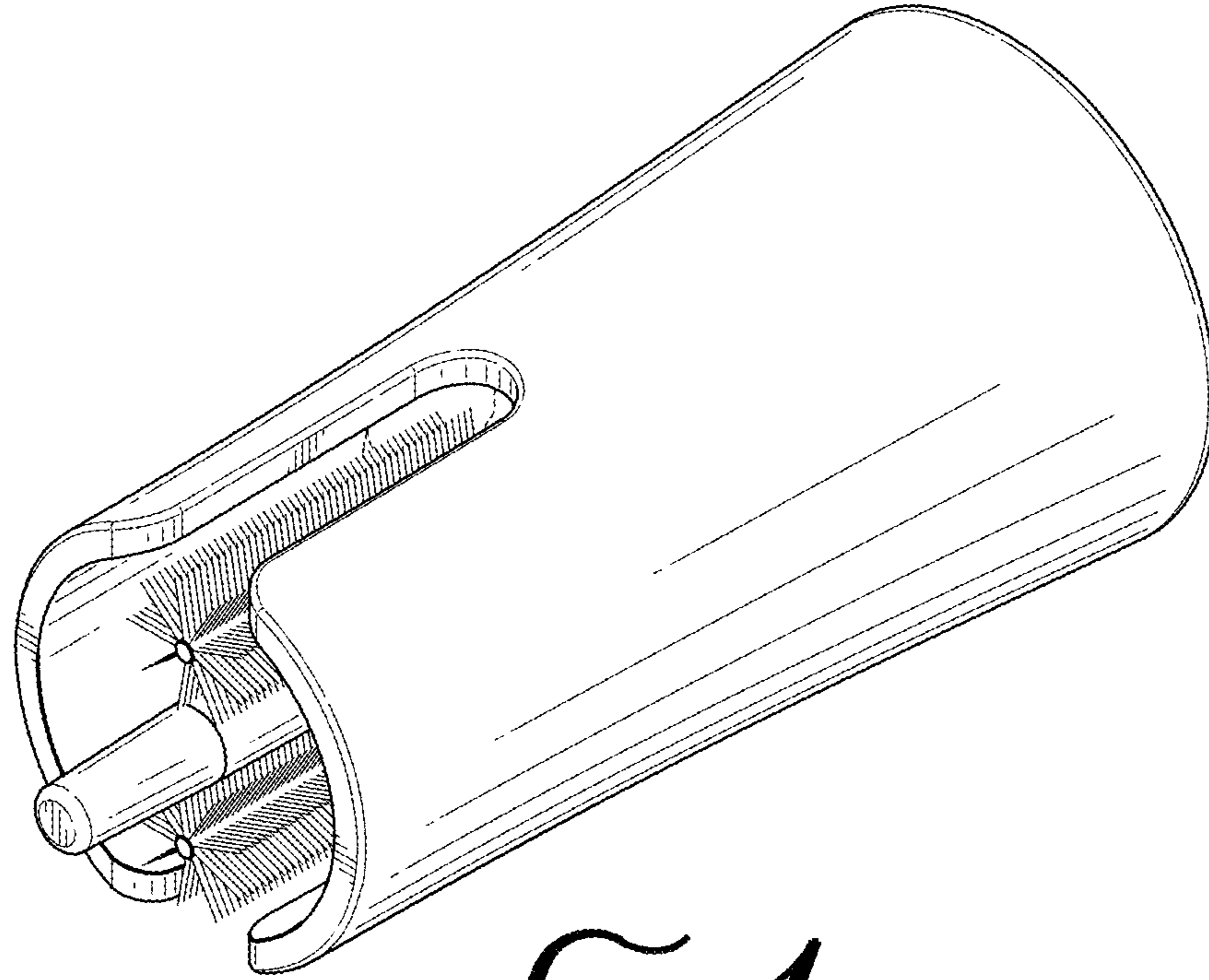
1,759,739	A	5/1930	Ferris	
2,190,216	A	2/1940	Nunziato	
2,629,888	A	3/1953	Sauer	
2,893,029	A	7/1959	Vosbikian et al.	
3,231,921	A	2/1966	Cuervo	
3,317,944	A	5/1967	Napier, Sr. et al.	
4,360,949	A *	11/1982	Wilson .....	E01H 8/00 D32/31
4,575,892	A	3/1986	Ross	
5,123,763	A	6/1992	Simmons	
D335,223	S	5/1993	Shumway	
D336,160	S	6/1993	Shumway	
5,214,820	A	6/1993	Shumway	
5,222,271	A	6/1993	Eganhouse	
5,564,149	A	10/1996	Matesic et al.	
5,875,509	A	3/1999	Facca	
6,202,247	B1	3/2001	Lorenz	
6,250,315	B1	6/2001	Ernster	
D449,909	S	10/2001	Randolph	
6,349,443	B1	2/2002	Randolph et al.	
6,363,948	B2	4/2002	Choi	
6,663,309	B2	11/2003	Zamansky	
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	Soloman 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	
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	
9,167,891	B2	10/2015	Shaughness	
D798,013	S	9/2017	Chaffee	
D842,565	S *	3/2019	Davis .....	D32/35
D877,436	S *	3/2020	Ashton-Miller .....	D32/45
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.	

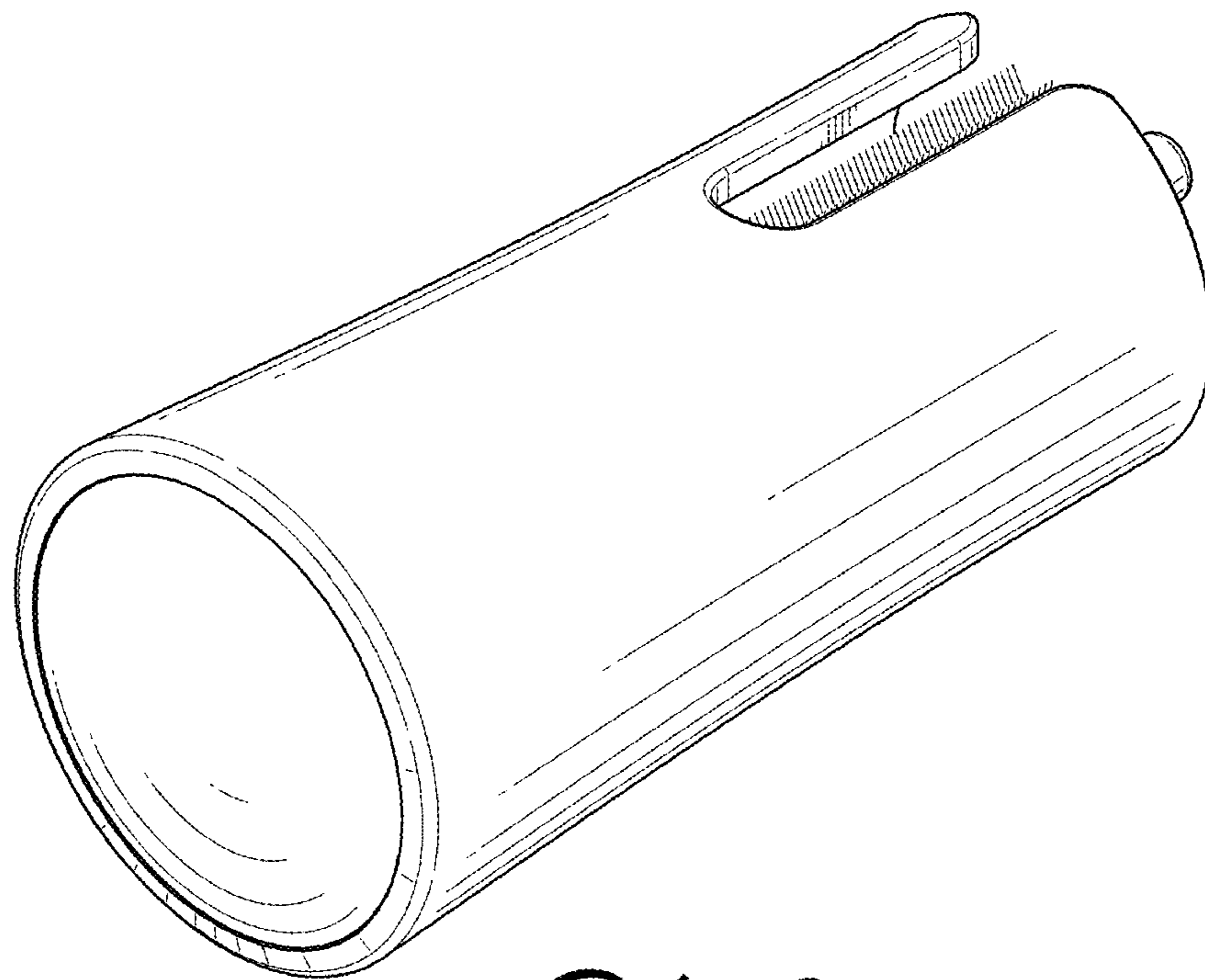
OTHER PUBLICATIONS

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.jointcommission.  
org; 50 pgs; Dec. 3, 2014.  
New Tube Feeding Connectors Webinar PowerPoint Presentation;  
www.oley.org; 24 pgs; Jun. 24, 2014.

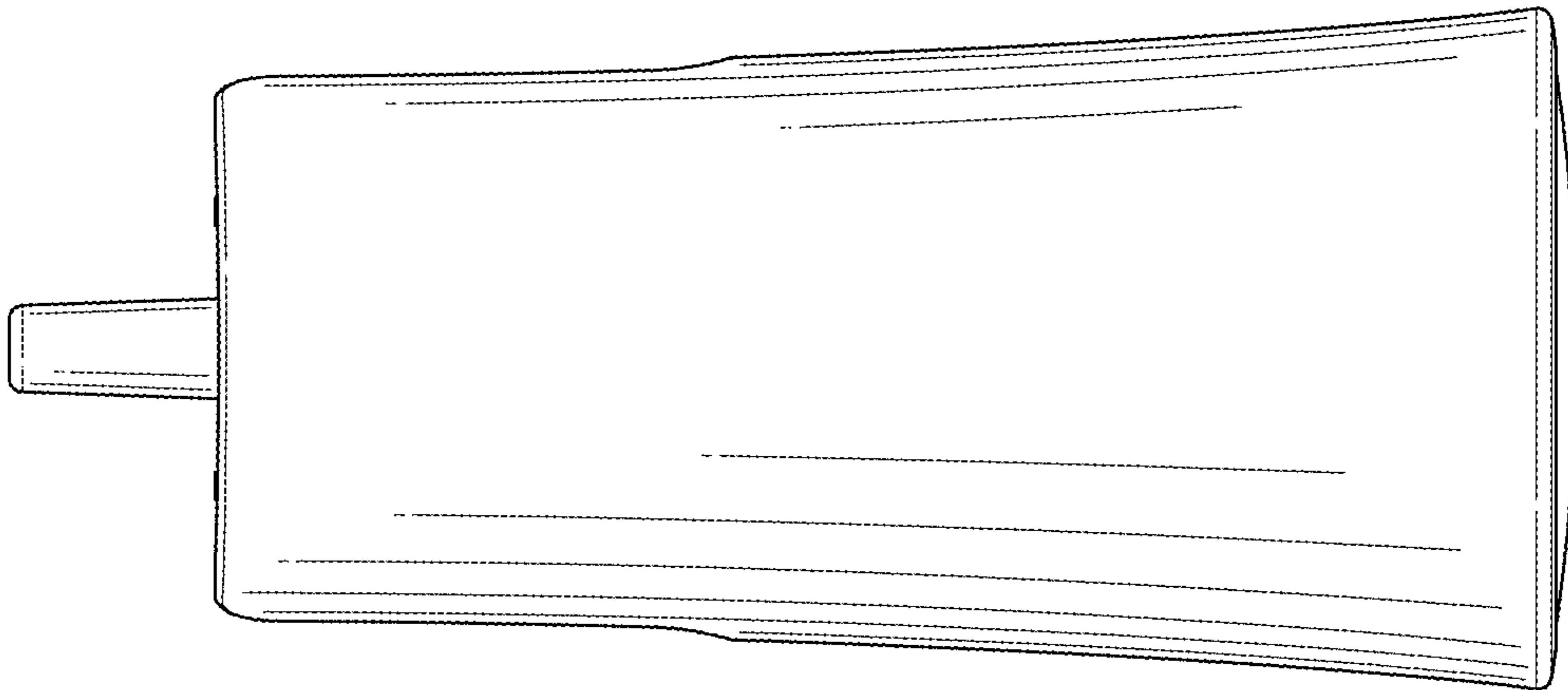
\* cited by examiner



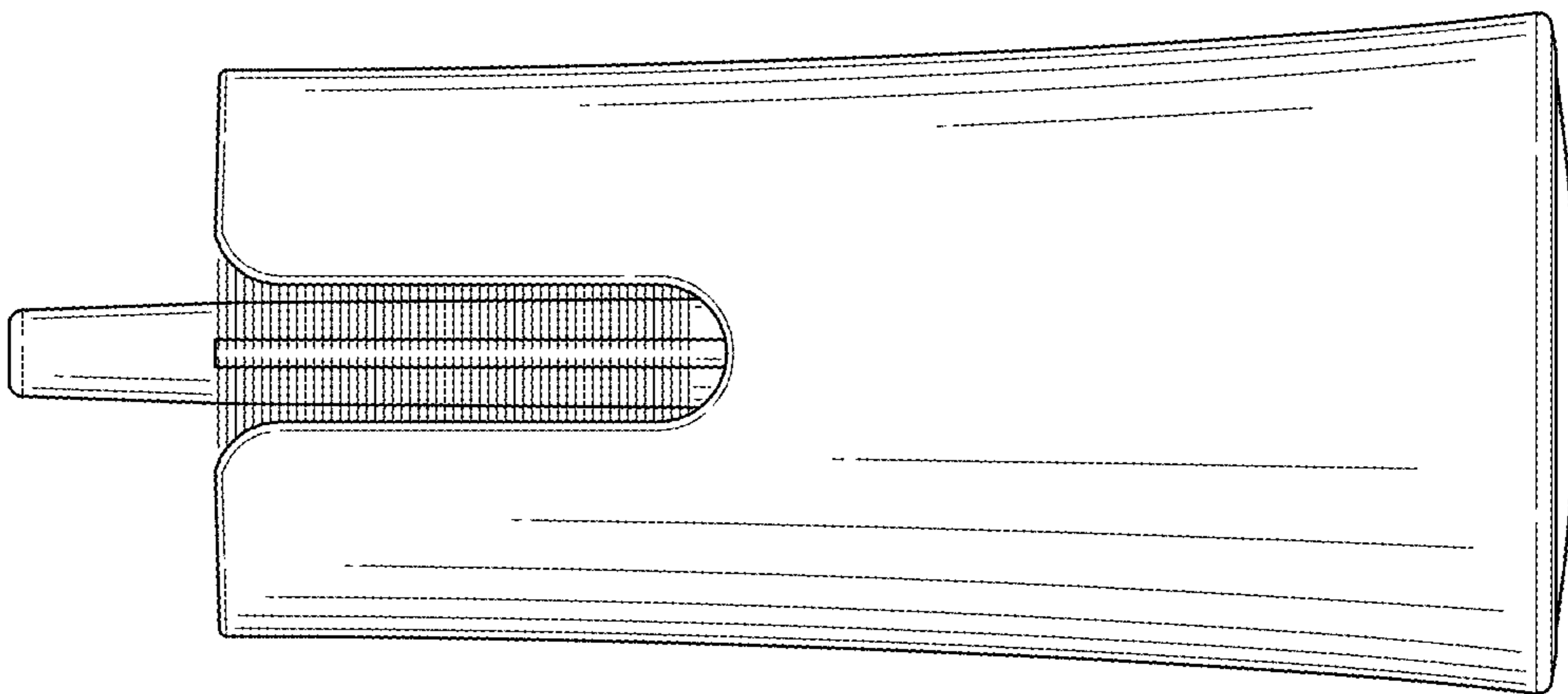
*FIG. 1*



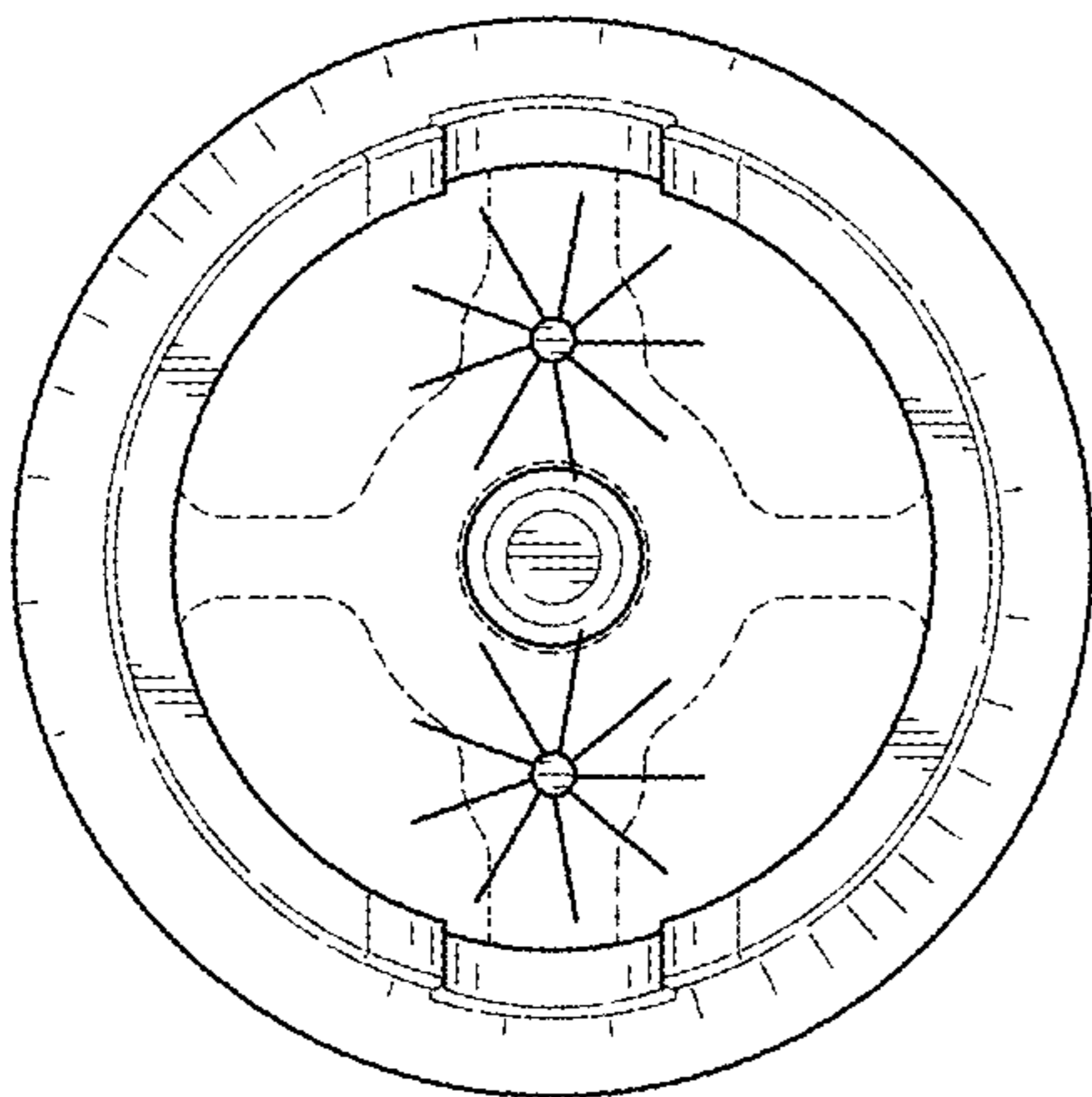
*FIG. 2*



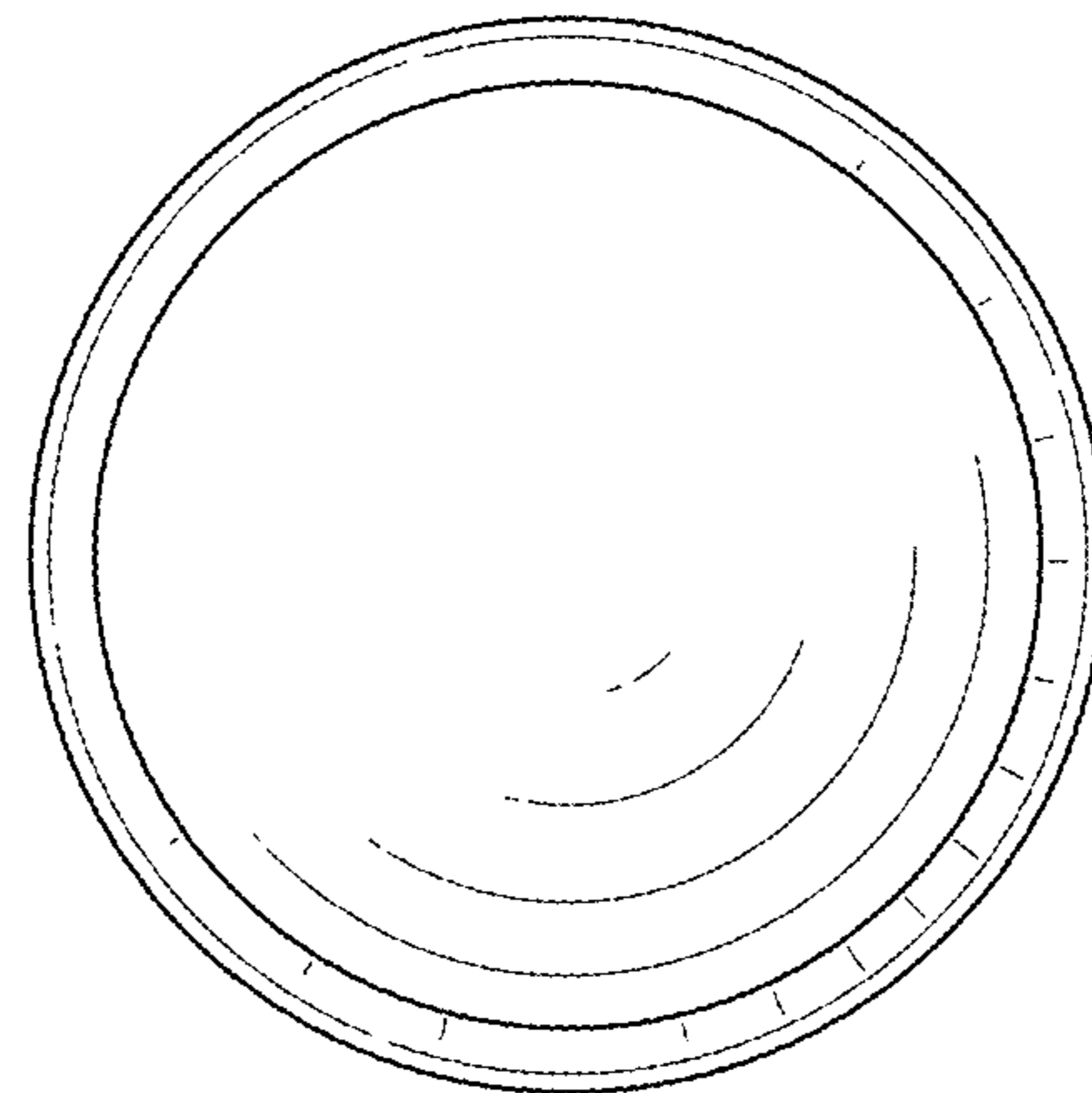
*FIG. 3*



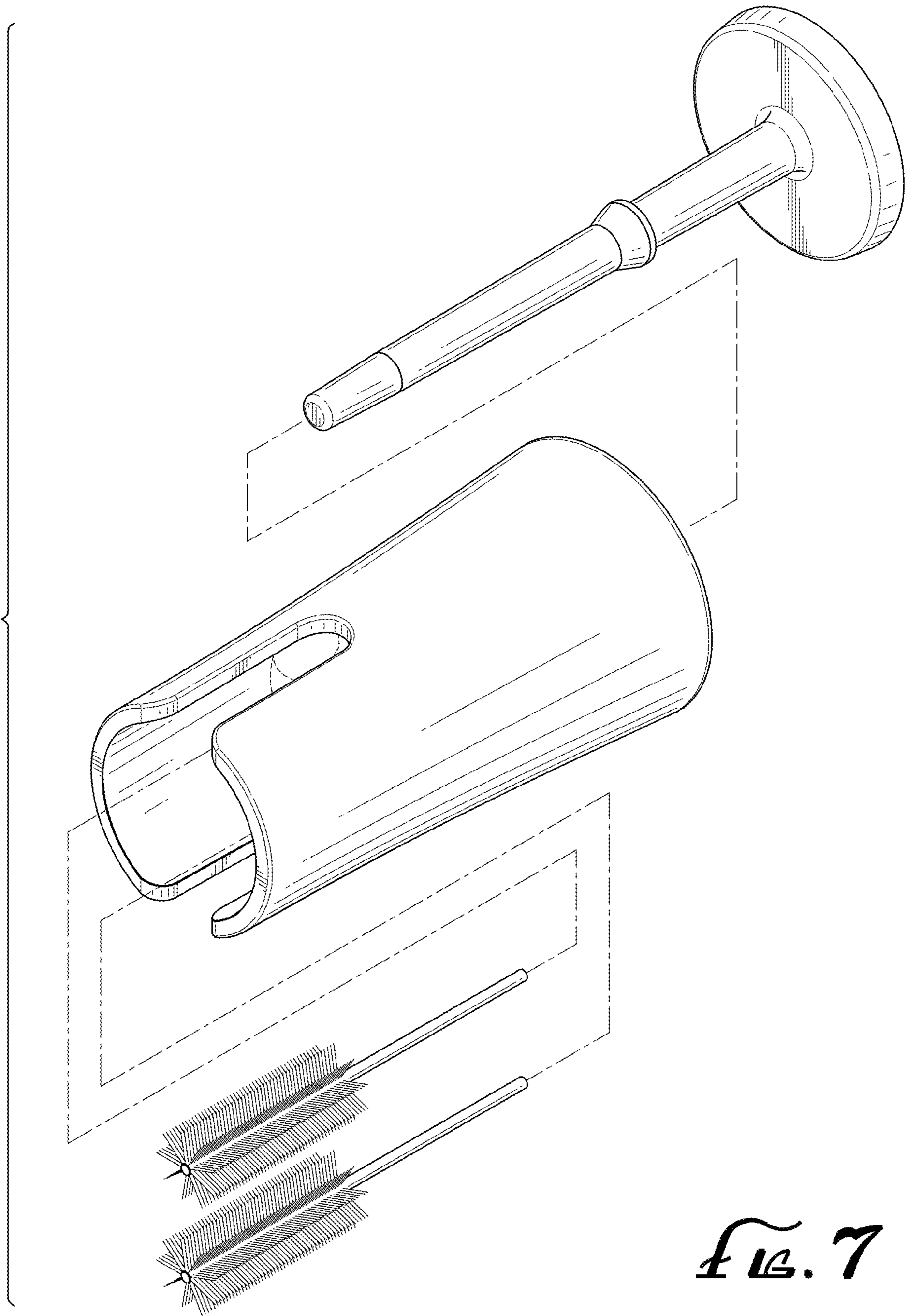
*FIG. 4*



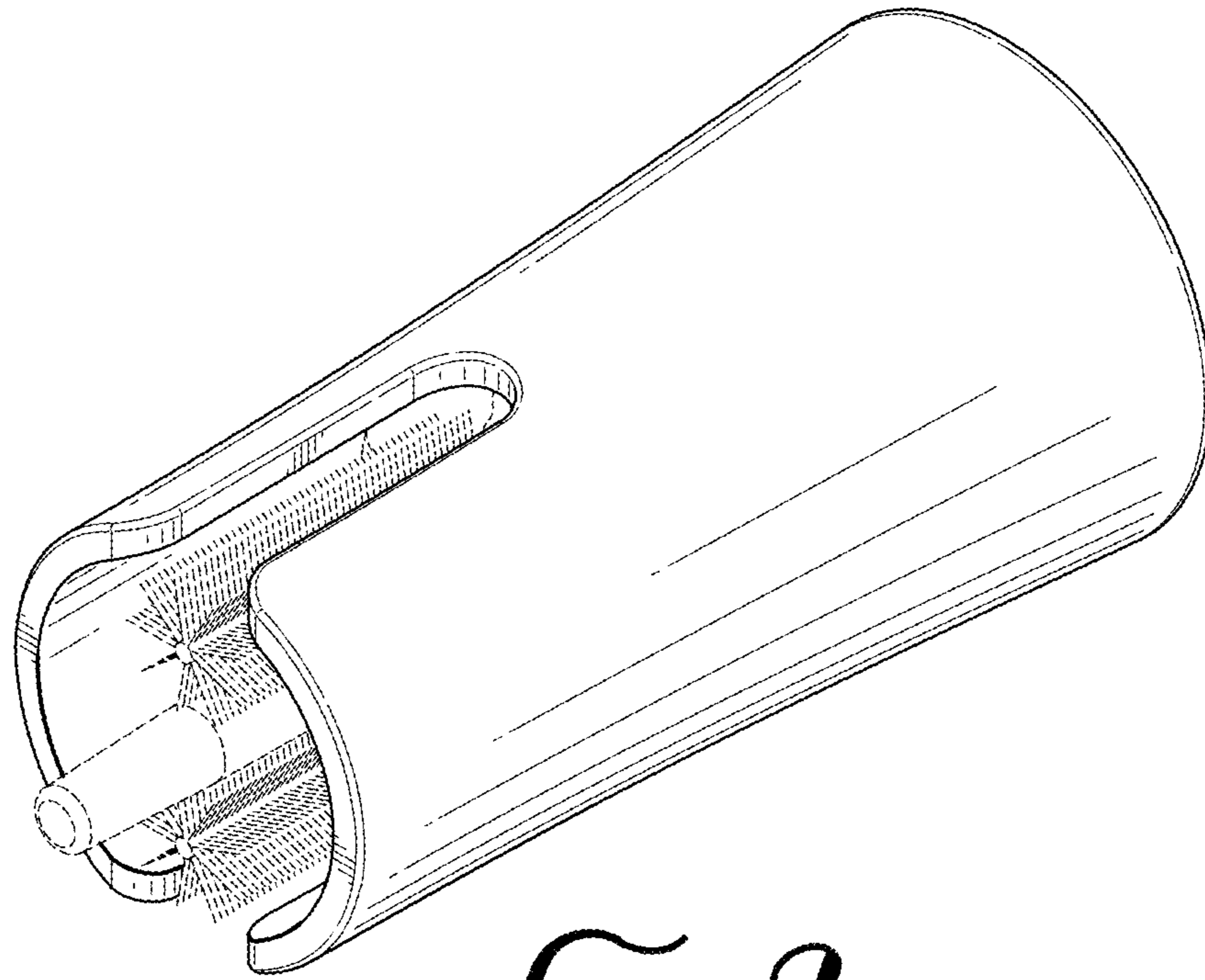
*FIG. 5*



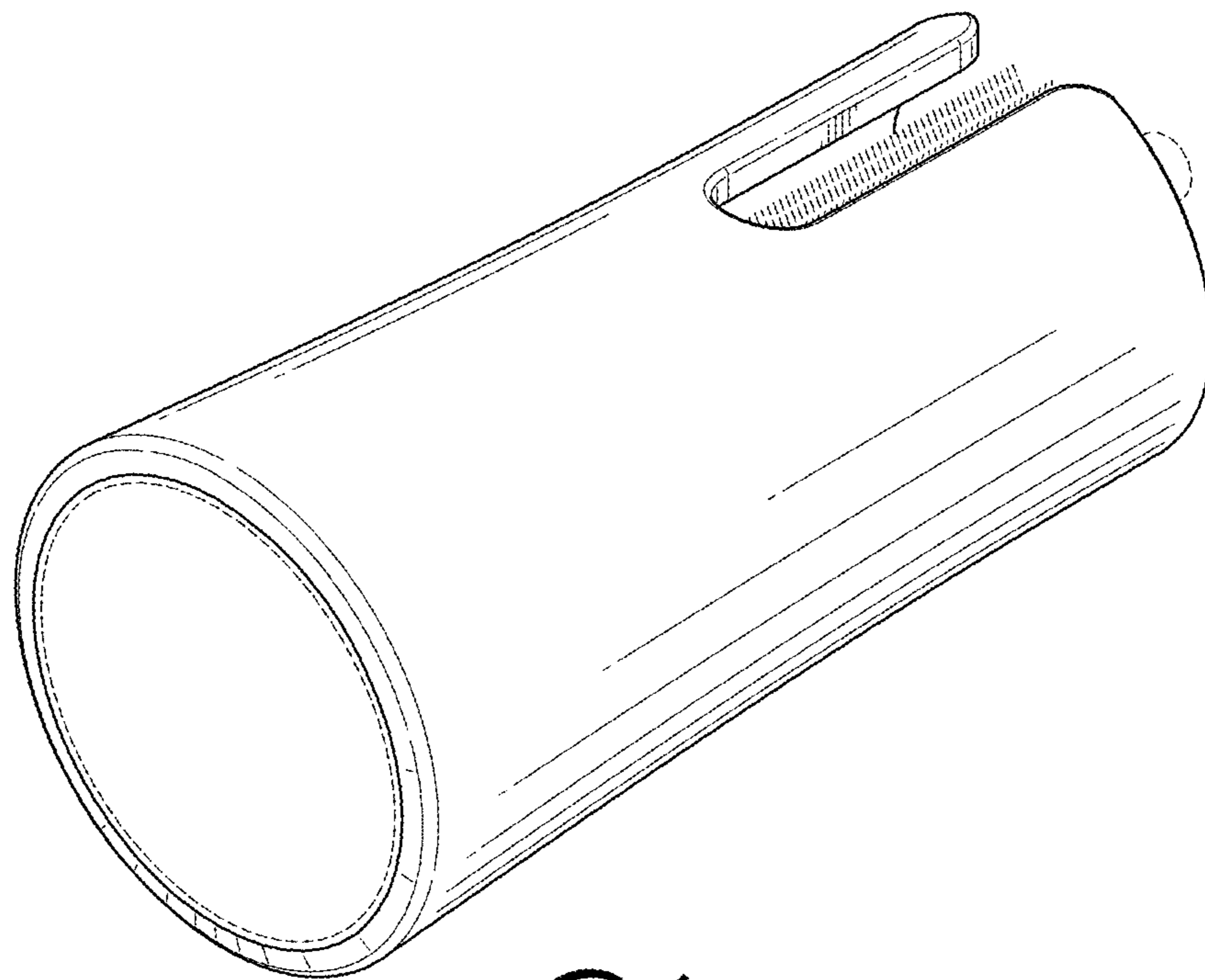
*FIG. 6*



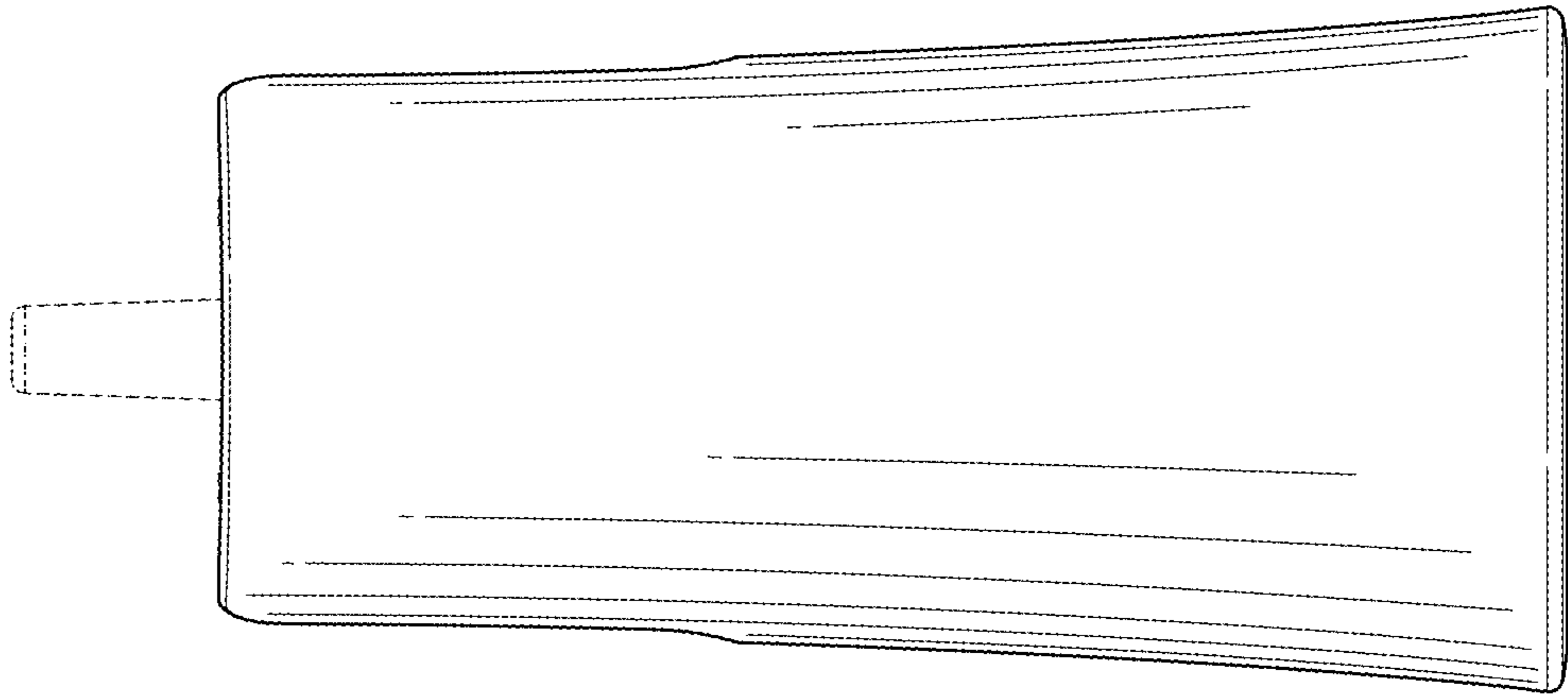
*FIG. 7*



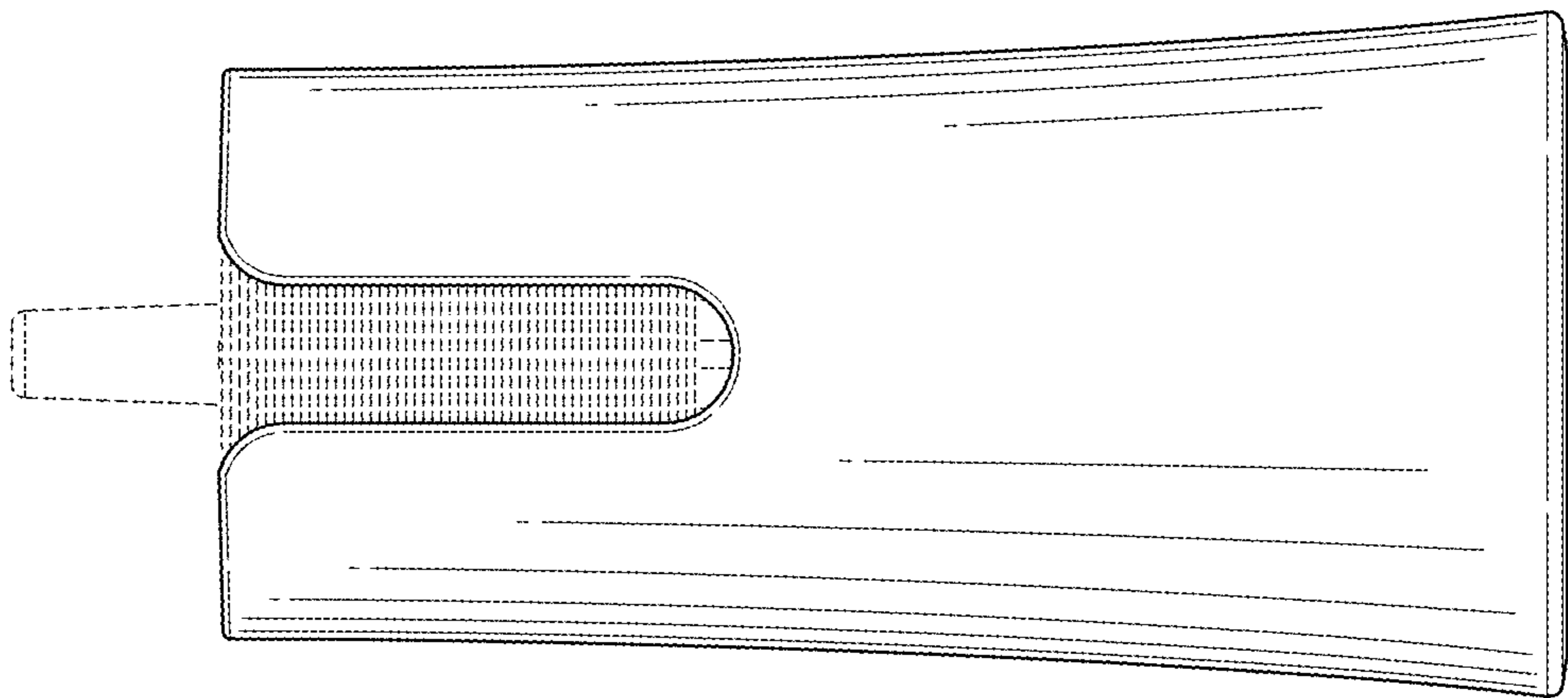
*FIG. 8*



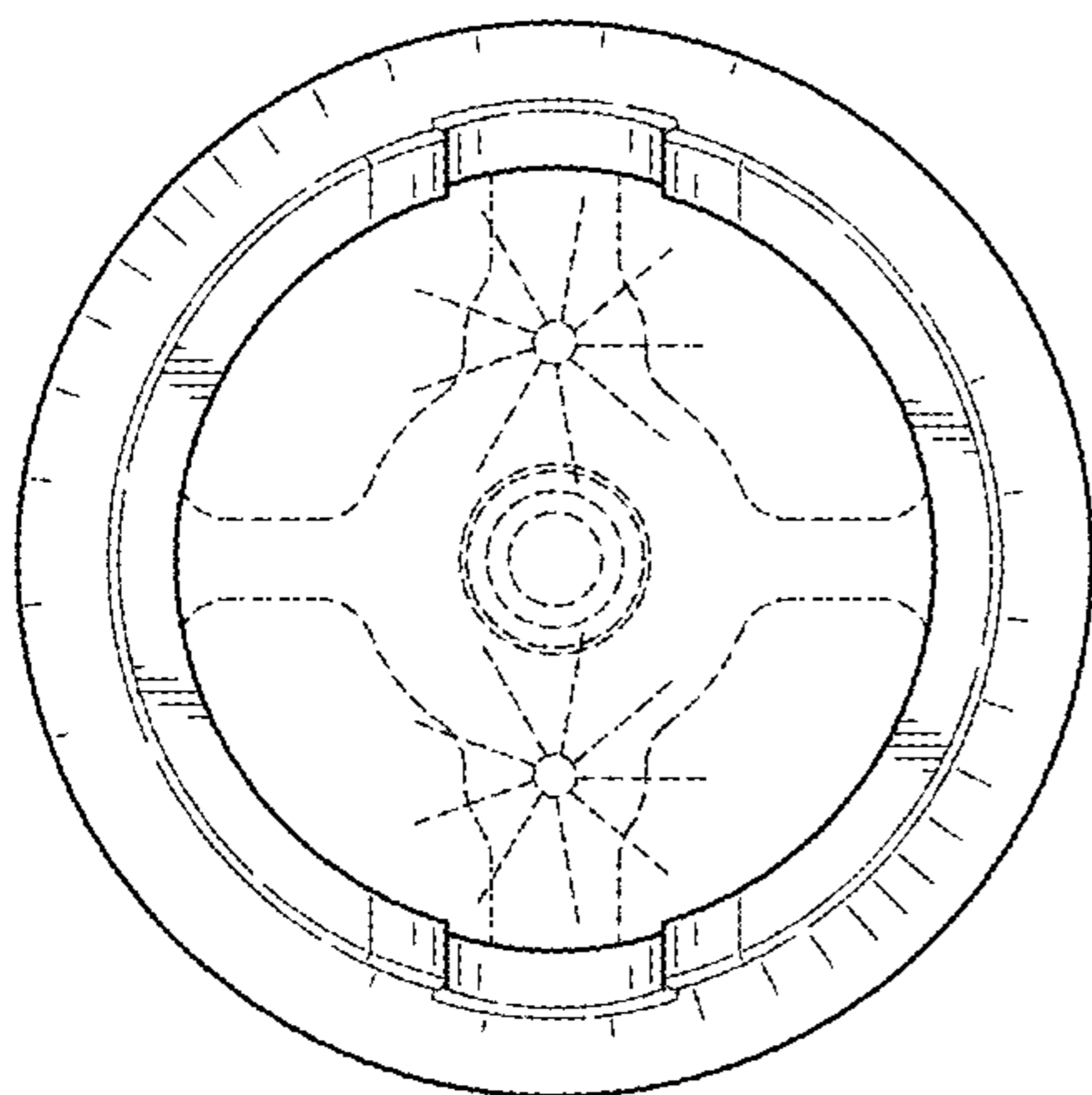
*FIG. 9*



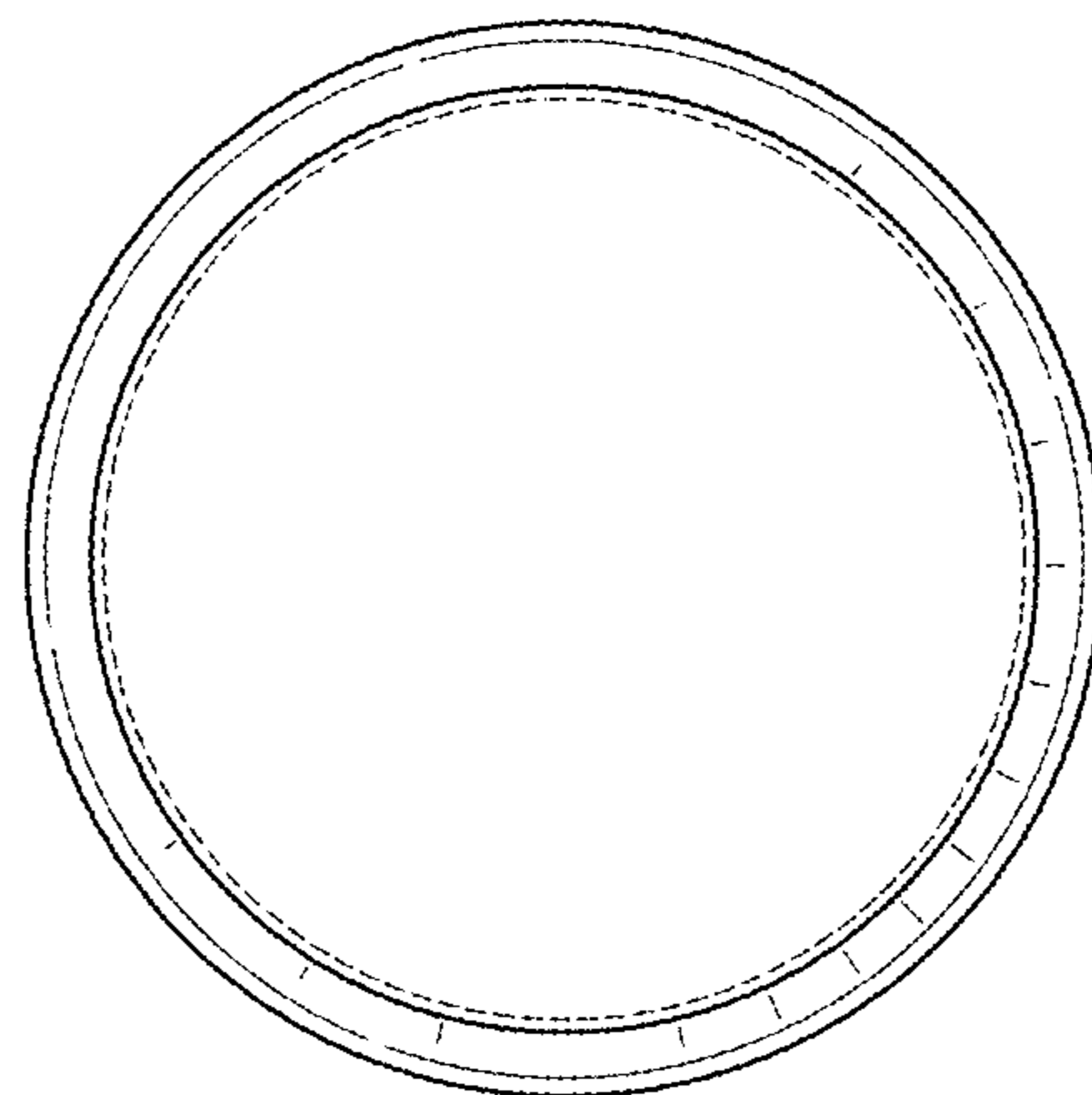
*FIG. 10*



*FIG. 11*



*FIG. 12*



*FIG. 13*