



US00D738054S

(12) **United States Design Patent**  
**Kim et al.**

(10) **Patent No.:** **US D738,054 S**  
(45) **Date of Patent:** **\*\* Sep. 1, 2015**

(54) **CLEANER**

(71) Applicant: **Samsung Electronics Co., Ltd.**,  
Suwon-si (KR)

(72) Inventors: **Chungha Kim**, Seoul (KR); **Sang Min Hyun**, Seoul (KR)

(73) Assignee: **Samsung Electronics Co., Ltd.**,  
Suwon-si (KR)

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

(21) Appl. No.: **29/486,998**

(22) Filed: **Apr. 4, 2014**

(30) **Foreign Application Priority Data**

Oct. 10, 2013 (KR) ..... 30-2013-0051391

(51) **LOC (10) Cl.** ..... **15-05**

(52) **U.S. Cl.**  
USPC ..... **D32/31**

(58) **Field of Classification Search**  
USPC ..... D32/31, 21, 22, 24, 34, 18, 32-33;  
15/350-353, 361-362, 347, 410-411,  
15/414, 320-322, 329, 335, 246.2, 1.7,  
15/340.2, DIG. 10  
CPC ..... A47L 5/24; A47L 11/34; A47L 5/362;  
A47L 19/1666; A47L 9/325; A47L 5/38;  
A47L 9/2857; A47L 9/26; B01D 45/12;  
B01D 50/002

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D205,759 S \* 9/1966 La Mers et al. .... D32/21  
D214,083 S \* 5/1969 Alligood, Jr. .... D32/21  
D294,187 S \* 2/1988 Bertuzzo ..... D32/21  
4,962,559 A \* 10/1990 Schuman ..... 15/1.7  
5,033,148 A \* 7/1991 Chauvier et al. .... 15/1.7

D399,030 S \* 9/1998 Lopes ..... D32/21  
D403,476 S \* 12/1998 Vaughan et al. .... D32/21  
5,950,274 A \* 9/1999 Kilstrom ..... 15/350  
6,148,144 A \* 11/2000 Milanese ..... 392/405  
D506,298 S \* 6/2005 Schmitt ..... D32/21  
D520,689 S \* 5/2006 Eccardt et al. .... D32/21  
D534,697 S \* 1/2007 Reick-Mitrisin et al. .... D32/21  
D537,580 S \* 2/2007 Zimmerle et al. .... D32/21  
D537,582 S \* 2/2007 Zimmerle et al. .... D32/21  
7,178,188 B1 \* 2/2007 Jaakola ..... 15/1.7  
D538,493 S \* 3/2007 Zimmerle et al. .... D32/21  
D539,491 S \* 3/2007 Kim ..... D32/21  
D541,997 S \* 5/2007 Greene ..... D32/31  
D575,013 S \* 8/2008 Gee et al. .... D32/18  
7,520,015 B1 \* 4/2009 Ajello ..... 15/1.7  
D594,607 S \* 6/2009 Farone et al. .... D32/18  
D617,962 S \* 6/2010 Clepper et al. .... D32/21  
D618,408 S \* 6/2010 Clepper et al. .... D32/21  
D666,371 S \* 8/2012 Bilger et al. .... D32/31  
D669,237 S \* 10/2012 Kim et al. .... D32/31  
D670,045 S \* 10/2012 Crevling et al. .... D32/21

(Continued)

*Primary Examiner* — Ruth McInroy

(74) *Attorney, Agent, or Firm* — NSIP Law

(57) **CLAIM**

We claim the ornamental design for a cleaner, as shown and described.

**DESCRIPTION**

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

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a left-side view thereof;

FIG. 5 is a right-side view thereof;

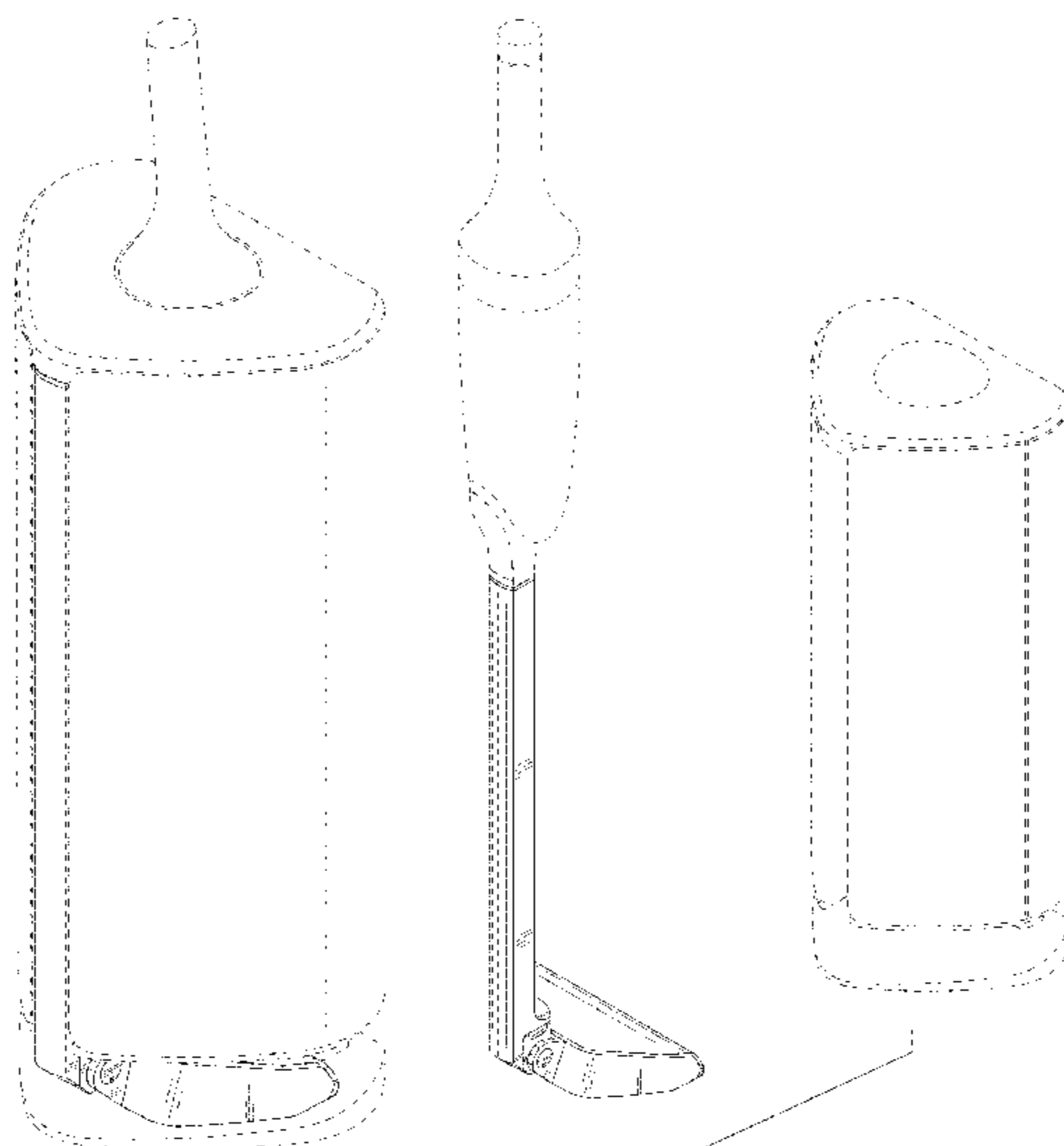
FIG. 6 is a top view thereof;

FIG. 7 is a bottom view thereof; and,

FIG. 8 is an exploded perspective view thereof.

The broken lines in the figures show portions of the cleaner which form no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D686,378	S *	7/2013	Luedke et al. ....	D32/31	2005/0251935	A1 *	11/2005	Grobler .....	15/1.7
D694,970	S *	12/2013	Santiago et al. ....	D32/34	2006/0096055	A1 *	5/2006	Rodberg et al. ....	15/310
D707,001	S *	6/2014	Valk .....	D32/21	2007/0017060	A1 *	1/2007	Zimmerle et al. ....	15/315
2005/0241099	A1 *	11/2005	Malinen .....	15/314	2007/0256269	A1 *	11/2007	Pagni .....	15/314
					2009/0094776	A1 *	4/2009	Lowrance, III .....	15/301
					2011/0119860	A1 *	5/2011	Marcil et al. ....	15/314
					2014/0359964	A1 *	12/2014	Schlapkohl .....	15/301

\* cited by examiner

FIG. 1

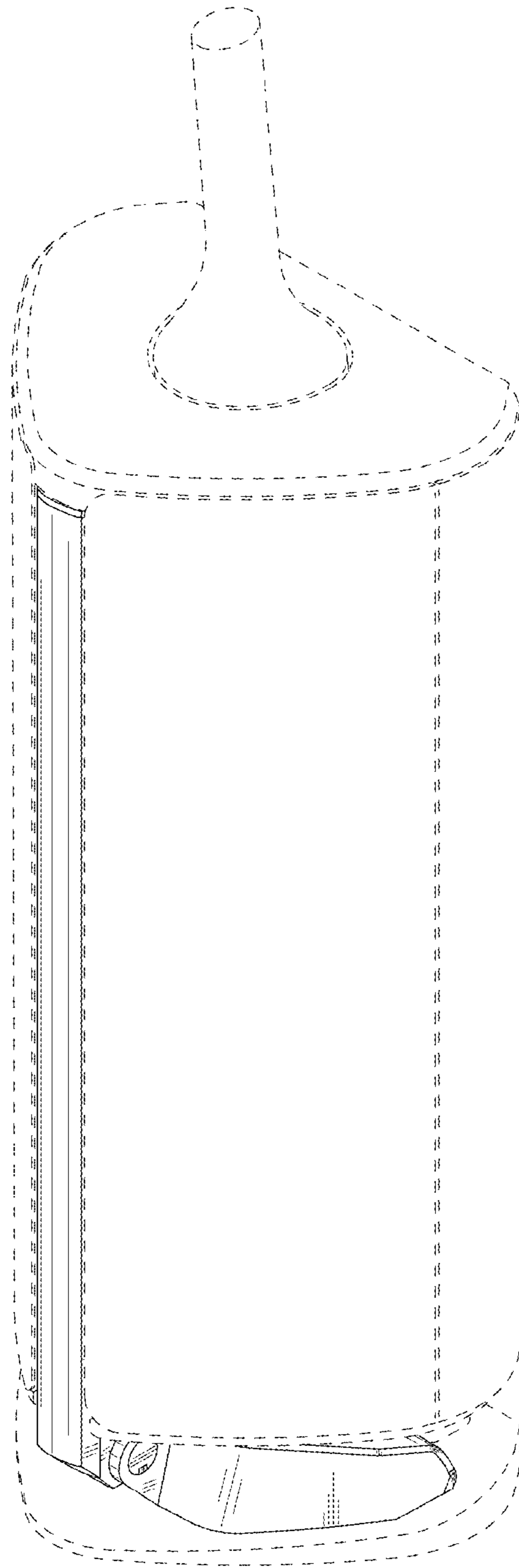


FIG. 2

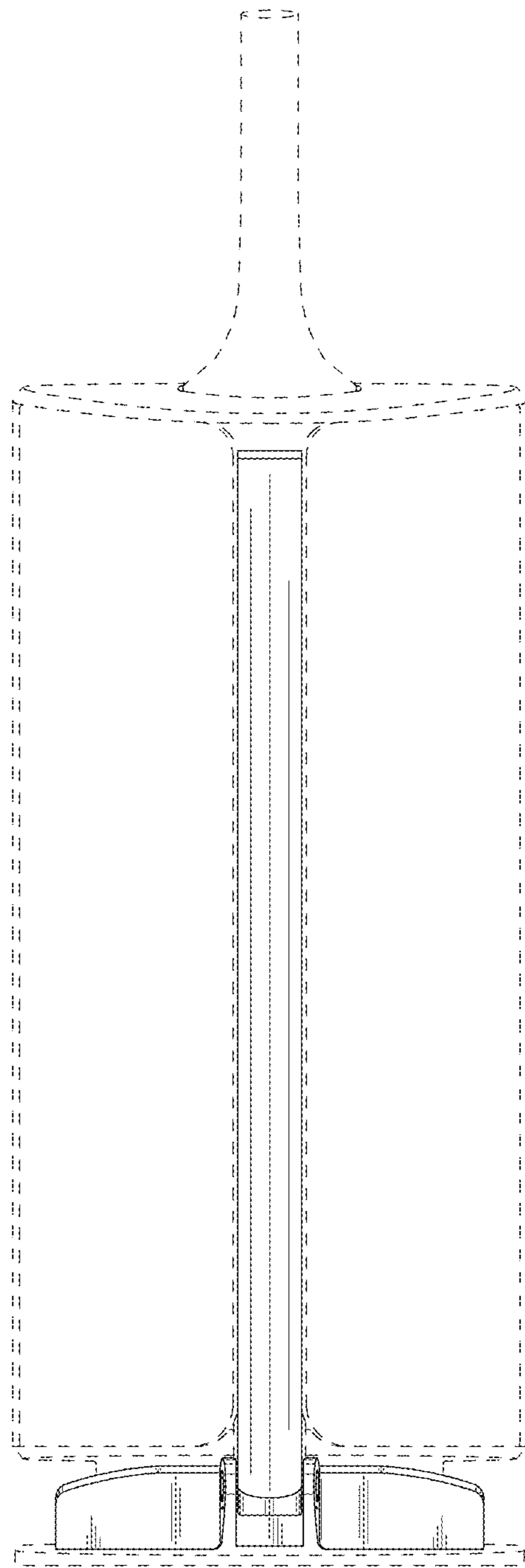


FIG. 3

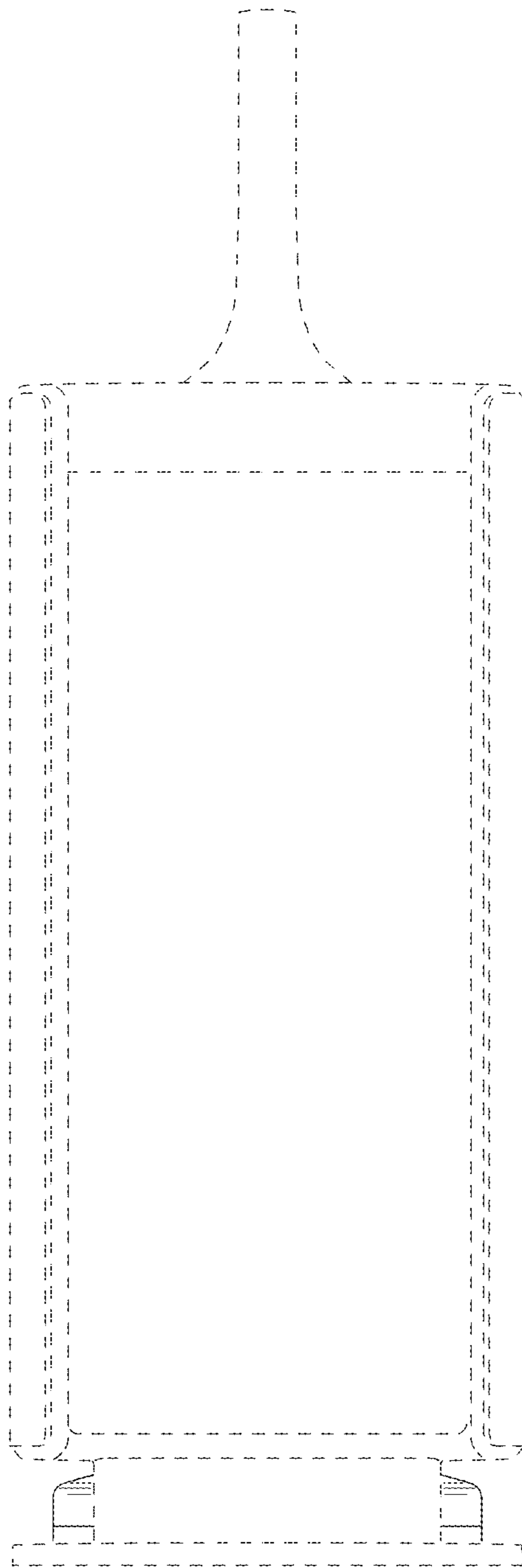


FIG. 4

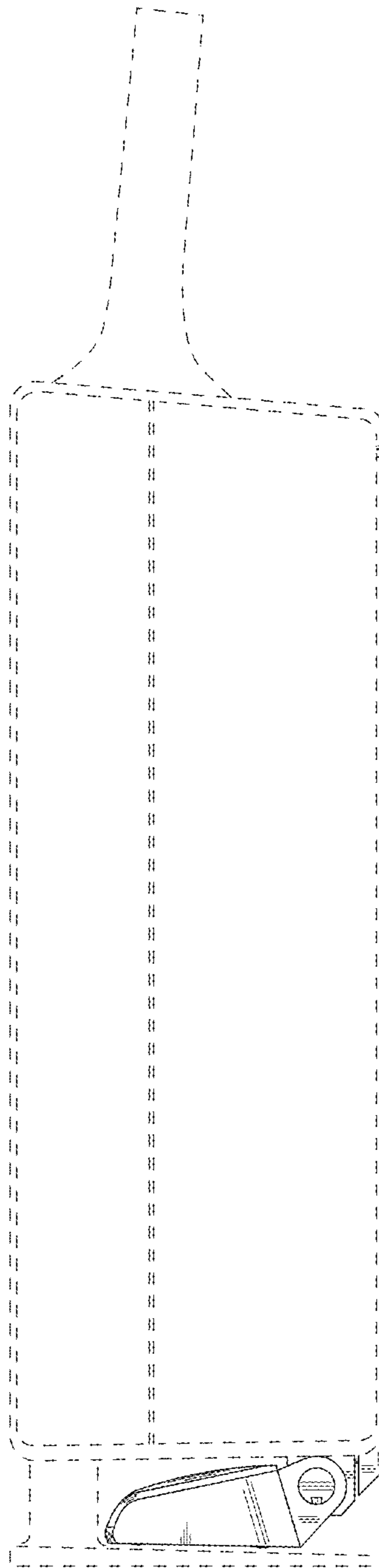


FIG. 5

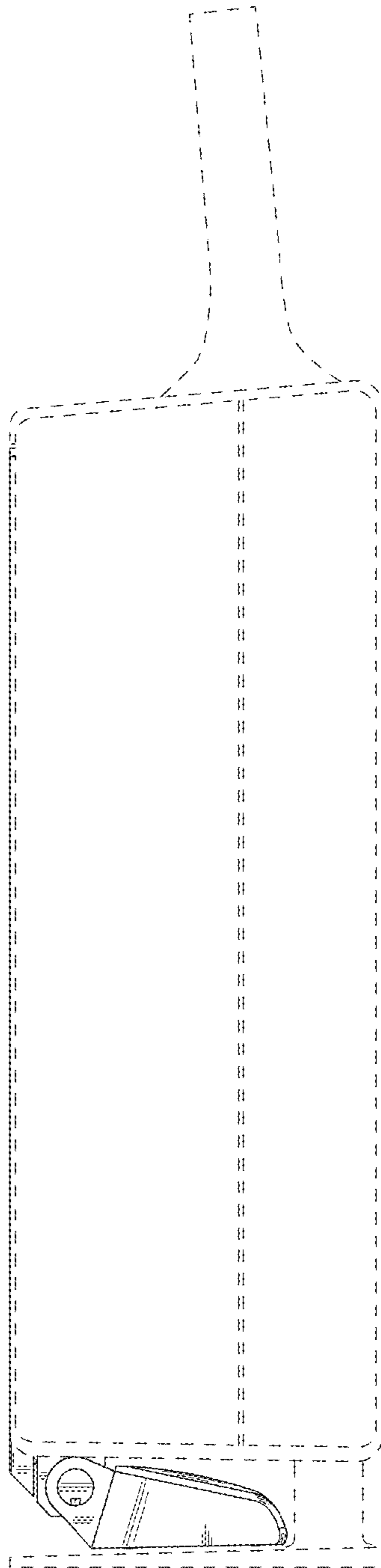


FIG. 6

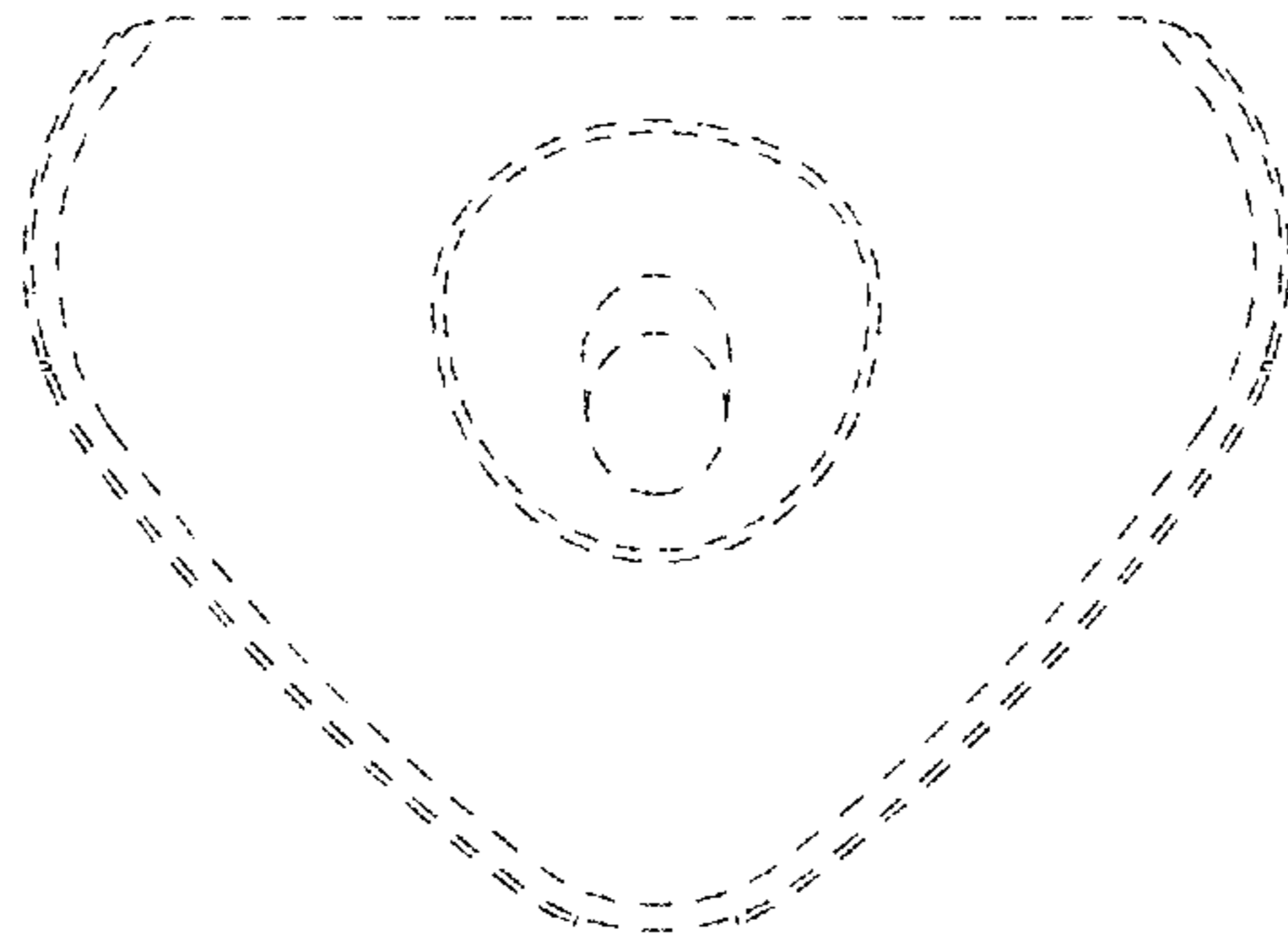




FIG. 7

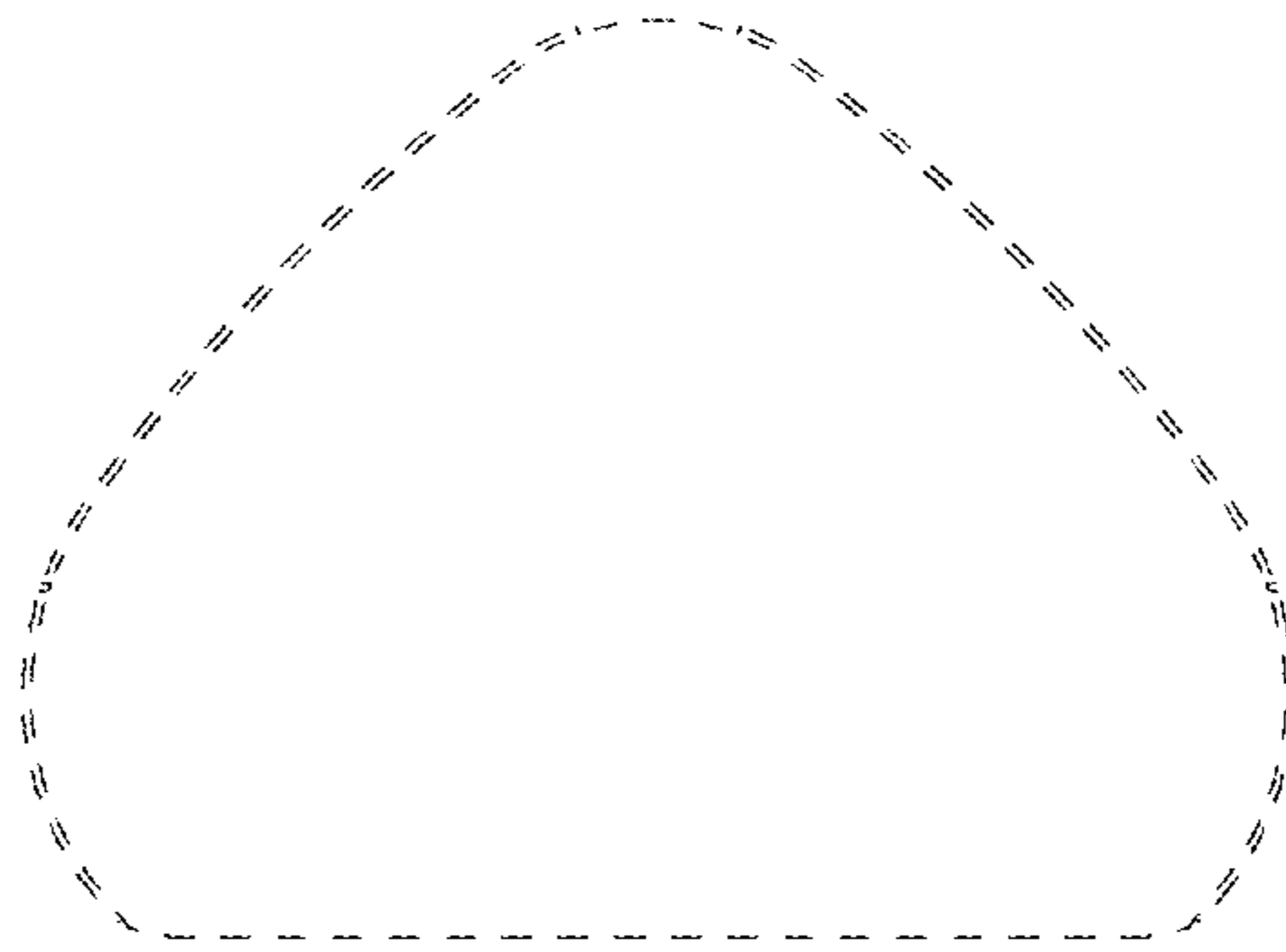


FIG. 8

