

US00D505436S

(12) **United States Design Patent** (10) **Patent No.:** **US D505,436 S**  
**Griggs et al.** (45) **Date of Patent:** **\*\* May 24, 2005**

(54) **NETTING PRODUCT CHUTE WITH RIBBED FLOOR FOR AUTOMATIC AND/OR MANUAL PACKAGING OPERATIONS**

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

(21) Appl. No.: **29/195,630**

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(51) **LOC (7) Cl.** ..... **15-09**

(52) **U.S. Cl.** ..... **D15/145**

(58) **Field of Search** ..... D15/145; 29/773,  
29/806; 53/416-419, 413, 456, 563, 138.1,  
138.2, 138.3, 138.4, 138.5, 138.6, 138.7,  
138.8

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,389,533 A 6/1968 Tipper et al.  
3,499,259 A 3/1970 Tipper et al.

(Continued)

**OTHER PUBLICATIONS**

Product Brochure, 1 sheet, "Tipper Netter TN-3000 Automatic Netting-Packaging Machine," © 2002.  
Product Brochure, 4 sheets, "Net-All® Netting Is The answer To All Your Horticultural Applications," © 2001.  
Product Brochure, 2 sheets, "Net-All Sleeved Plastic Netting System," © 2000.  
Product Brochure, 6 sheets, "Tipper Net For Smoking, Hanging & Decoration, Net-All® Netting Is The Answer," © 2000.  
Product Brochure, 1 sheet, "Tipper Clipper®-signature Series SZ3214 Double Clipper for Netting," © 2002.  
Product Brochure, 2 sheets, "Tipper Net Z3200 Double Clipper and Plant Netting System," © 2000.

Product Brochure, 1 sheet, "Tipper Tie-Net, Safely and quickly package plugs before shipping," © 1999.

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(57) **CLAIM**

The ornamental design for a netting product chute with ribbed floor for automatic and/or manual packaging operations, as shown and described.

**DESCRIPTION**

FIG. 1 is a top perspective view of the netting product chute with ribbed floor for automatic and/or manual packaging operations showing our design;

FIG. 2 is a side view thereof;

FIG. 3 is a top view thereof;

FIG. 4 is a bottom view thereof;

FIG. 5 is an ingress end view thereof;

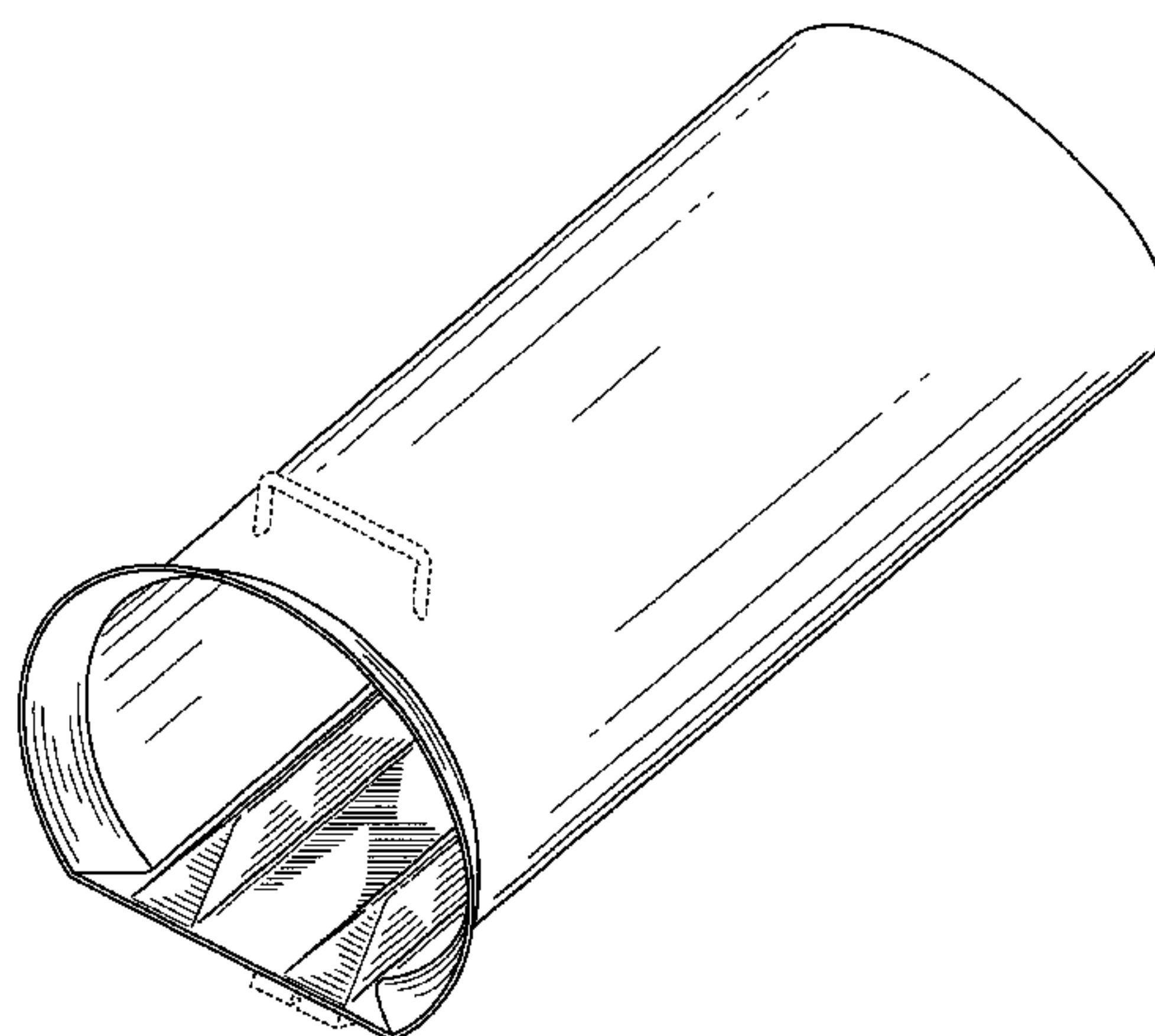
FIG. 6 is an opposing egress end view thereof;

FIG. 7 is side perspective view illustrating the netting product chute with ribbed floor for automatic and/or manual packaging operations in an exemplary use environment with the netting product chute oriented substantially horizontally; and,

FIG. 8 is a side perspective view illustrating the netting product chute with ribbed floor for automatic and/or manual packaging operations in an exemplary use environment, with the netting product chute tilted angularly down.

The opposing side view of the netting product chute with ribbed floor for automatic and/or manual packaging operations is the same as that shown in FIG. 2. The broken lines shown herein are for illustrative purposes only and form no part of the claimed design. The illustrated device is not limited to the scale shown and the illustrated ham product and netting material shown in broken lines in FIGS. 7 and 8 are exemplary only, as the netting product chute with ribbed floor for automatic and/or manual packaging operations is useful for packaging other food items as well as other net-enclosed industrial and commodity items and/or may be used with other netting types.

**1 Claim, 8 Drawing Sheets**



# US D505,436 S

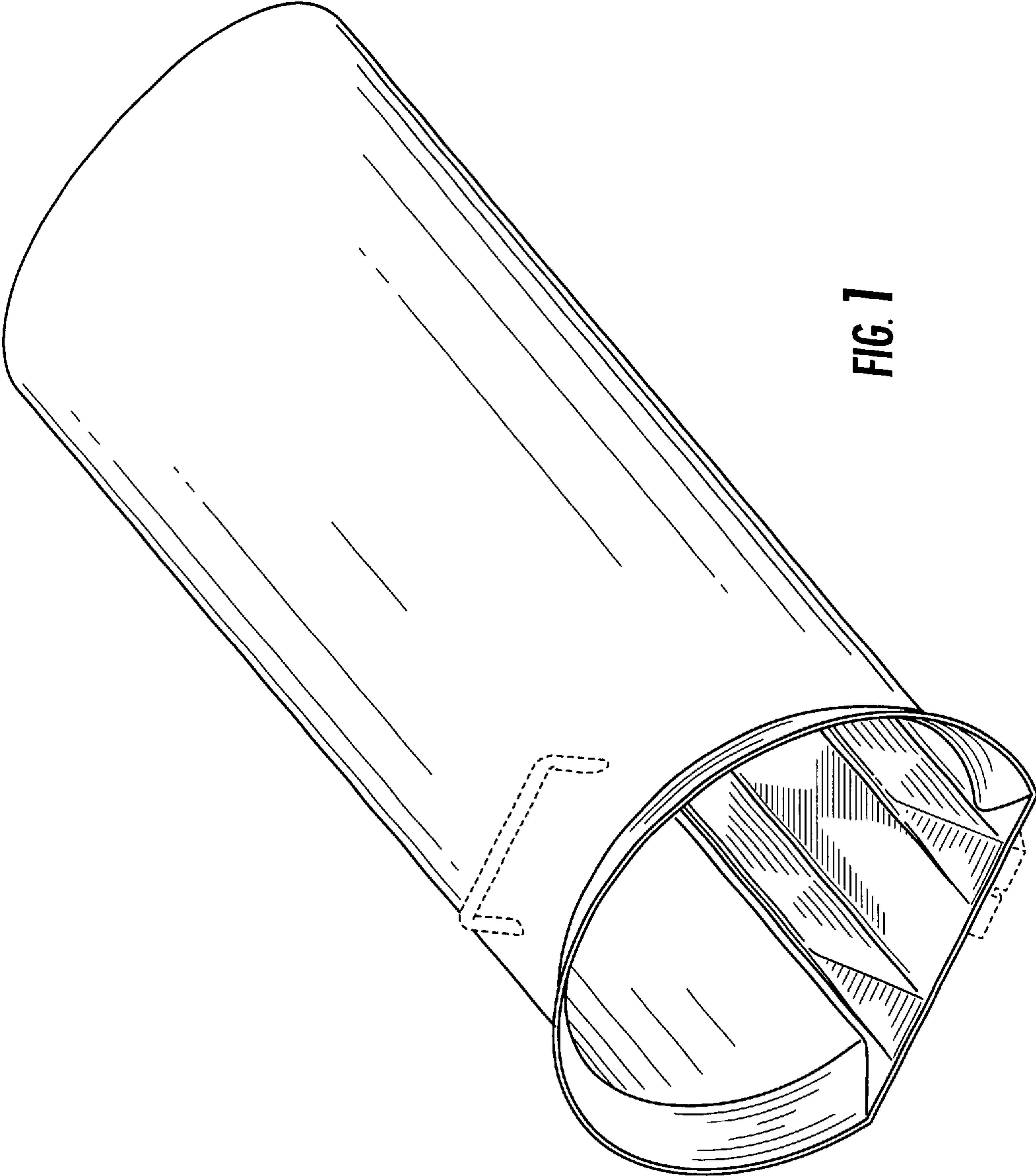
Page 2

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## U.S. PATENT DOCUMENTS

3,587,204 A *	6/1971	George	.....	53/138.4	5,042,234 A *	8/1991	Evans et al.	.....	53/523
3,732,662 A *	5/1973	Paxton	.....	53/415	5,044,144 A *	9/1991	Footo et al.	.....	29/806
D243,158 S *	1/1977	Bolwell	.....	D15/145	5,161,347 A	11/1992	May et al.	.....	53/138.2
4,091,595 A *	5/1978	Pelster et al.	.....	53/417	5,495,701 A	3/1996	Poteat et al.	.....	53/138.2
4,247,005 A *	1/1981	Buxton	.....	53/138.4	5,586,424 A	12/1996	Chen et al.	.....	53/138.2
4,590,748 A *	5/1986	Harrison et al.	.....	53/576	6,745,547 B2 *	6/2004	Bussey et al.	.....	53/576
4,683,700 A	8/1987	Evans et al.	.....	53/138.4	2003/0131564 A1	7/2003	Ailey et al.	.....	53/413
4,766,713 A	8/1988	Evans	.....	53/138.2					

\* cited by examiner



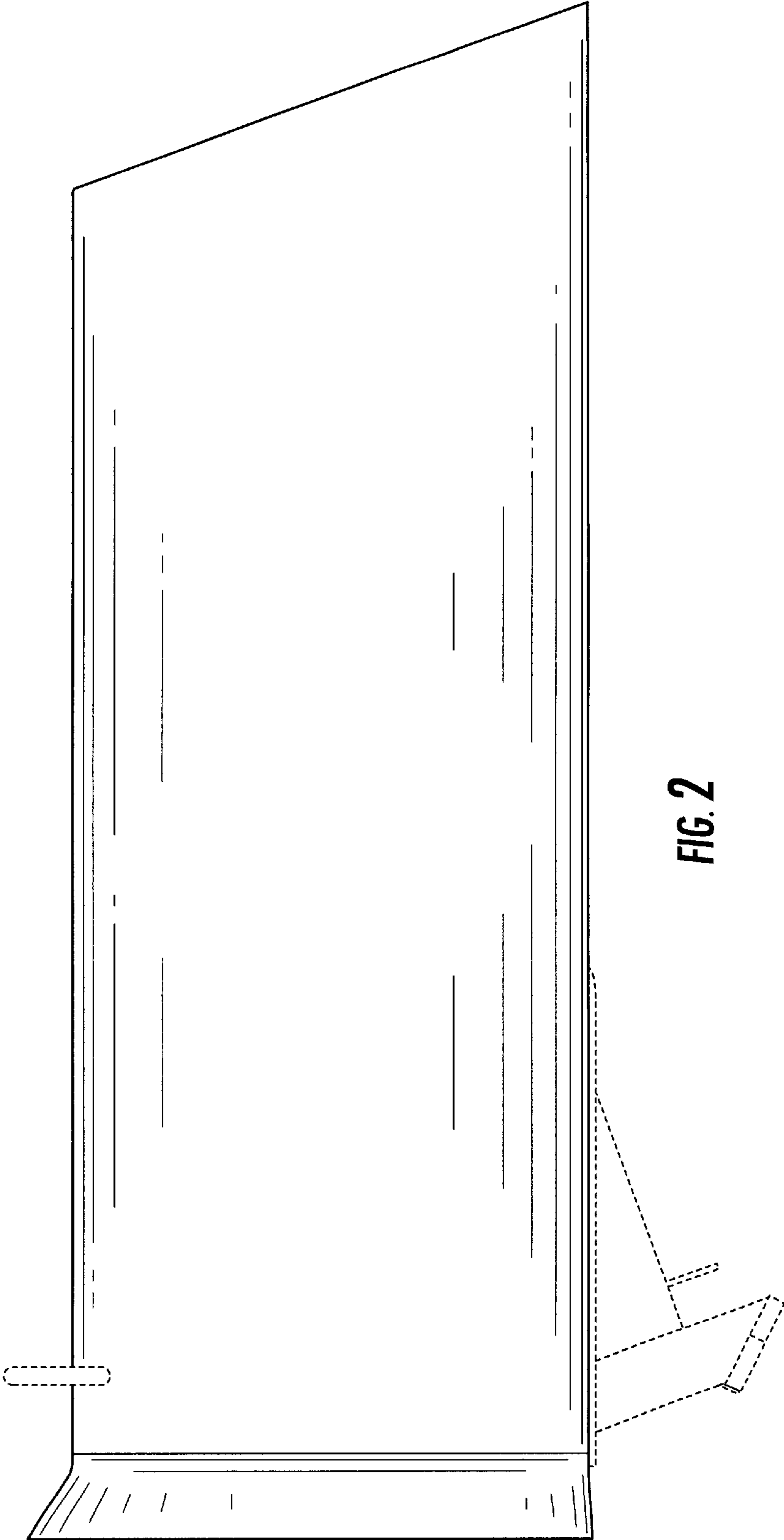


FIG. 2

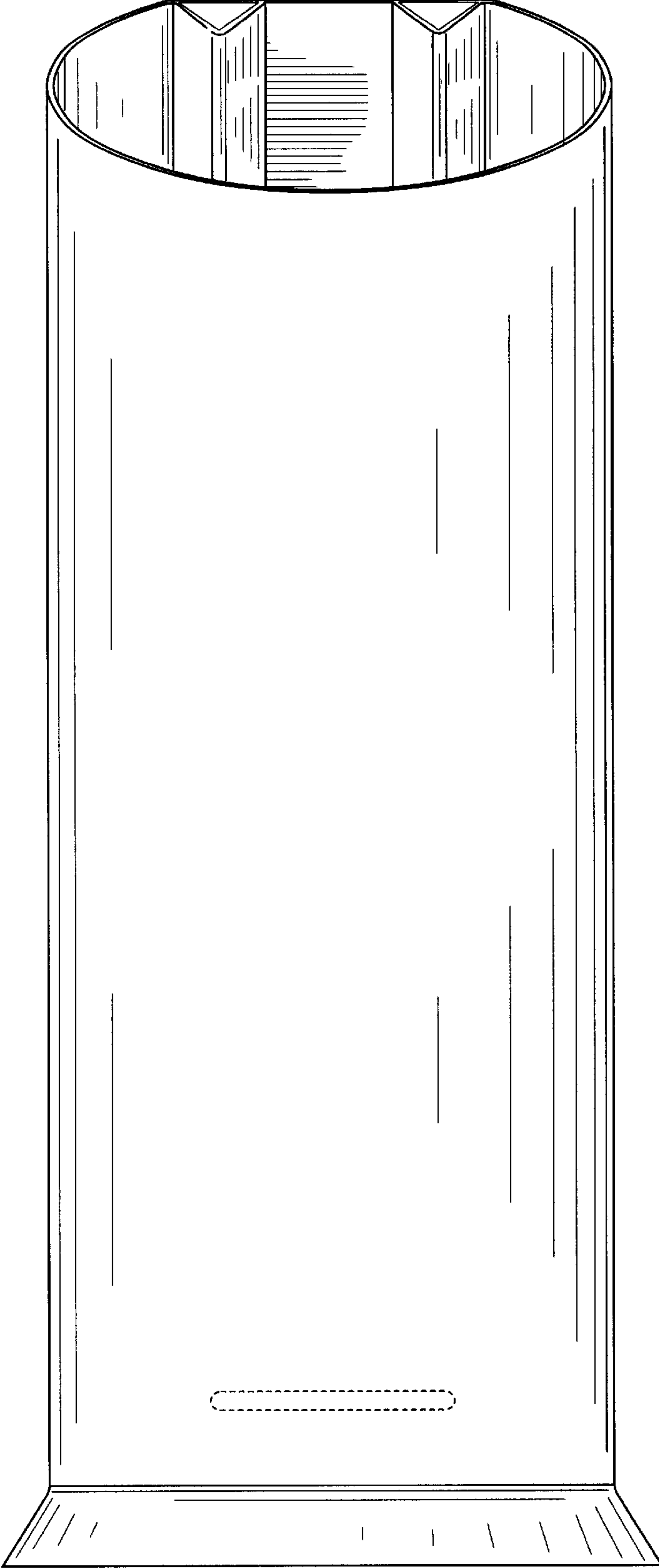


FIG. 3

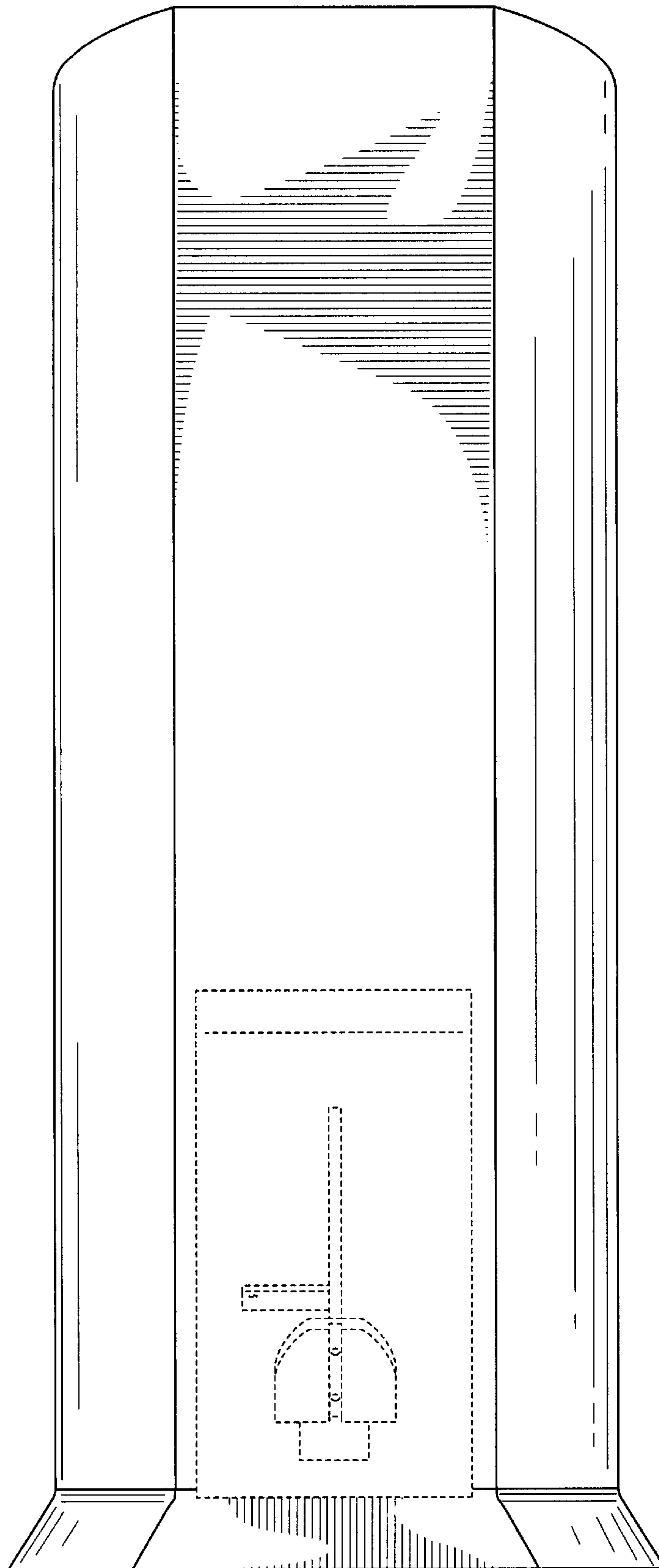
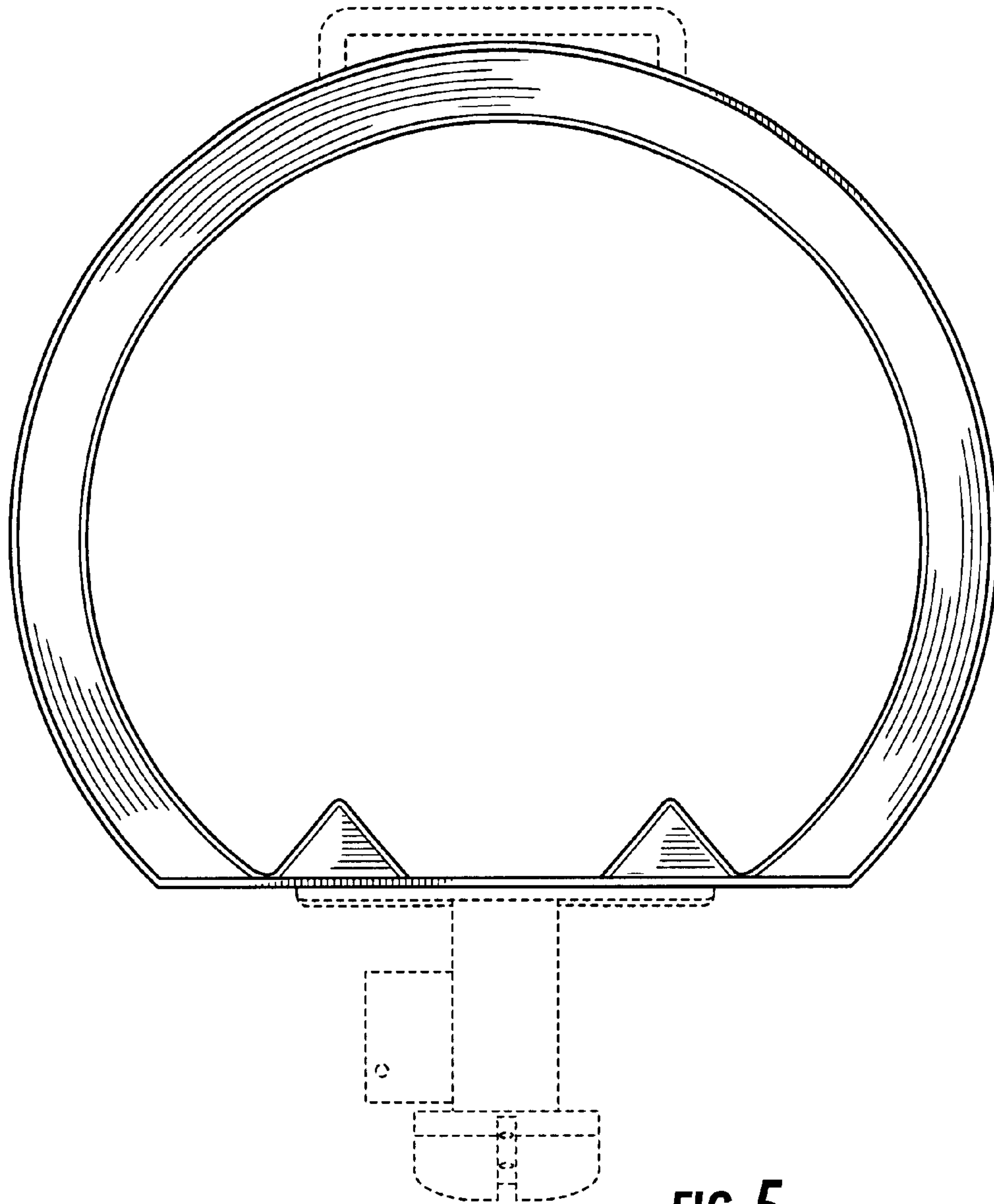
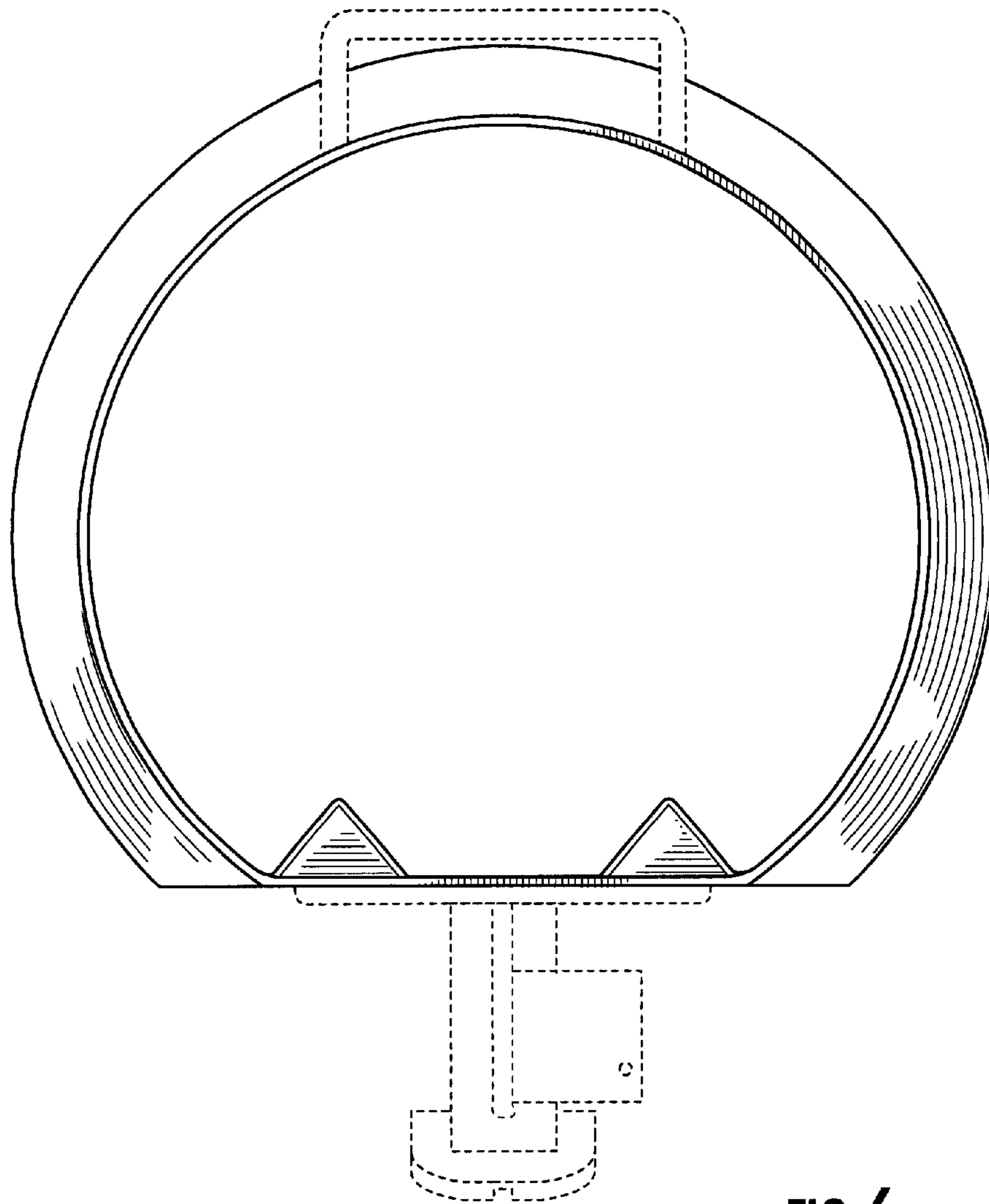


FIG. 4





**FIG. 5**



**FIG. 6**



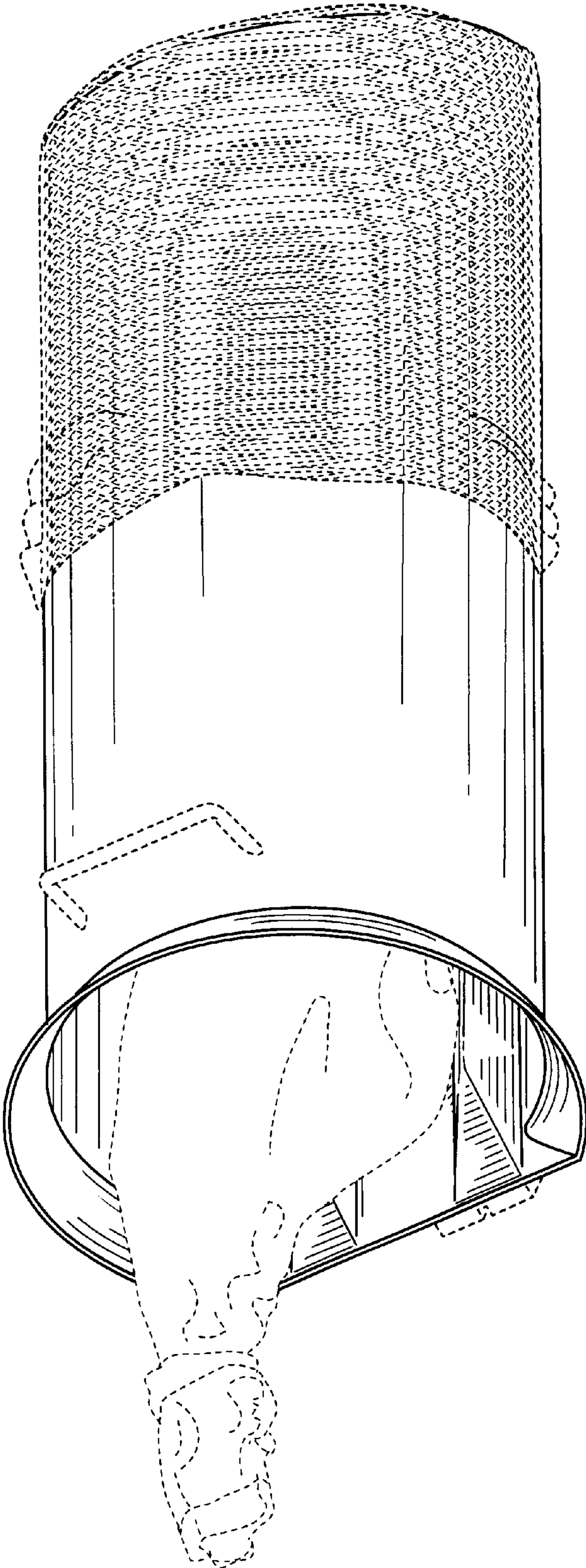


FIG. 7

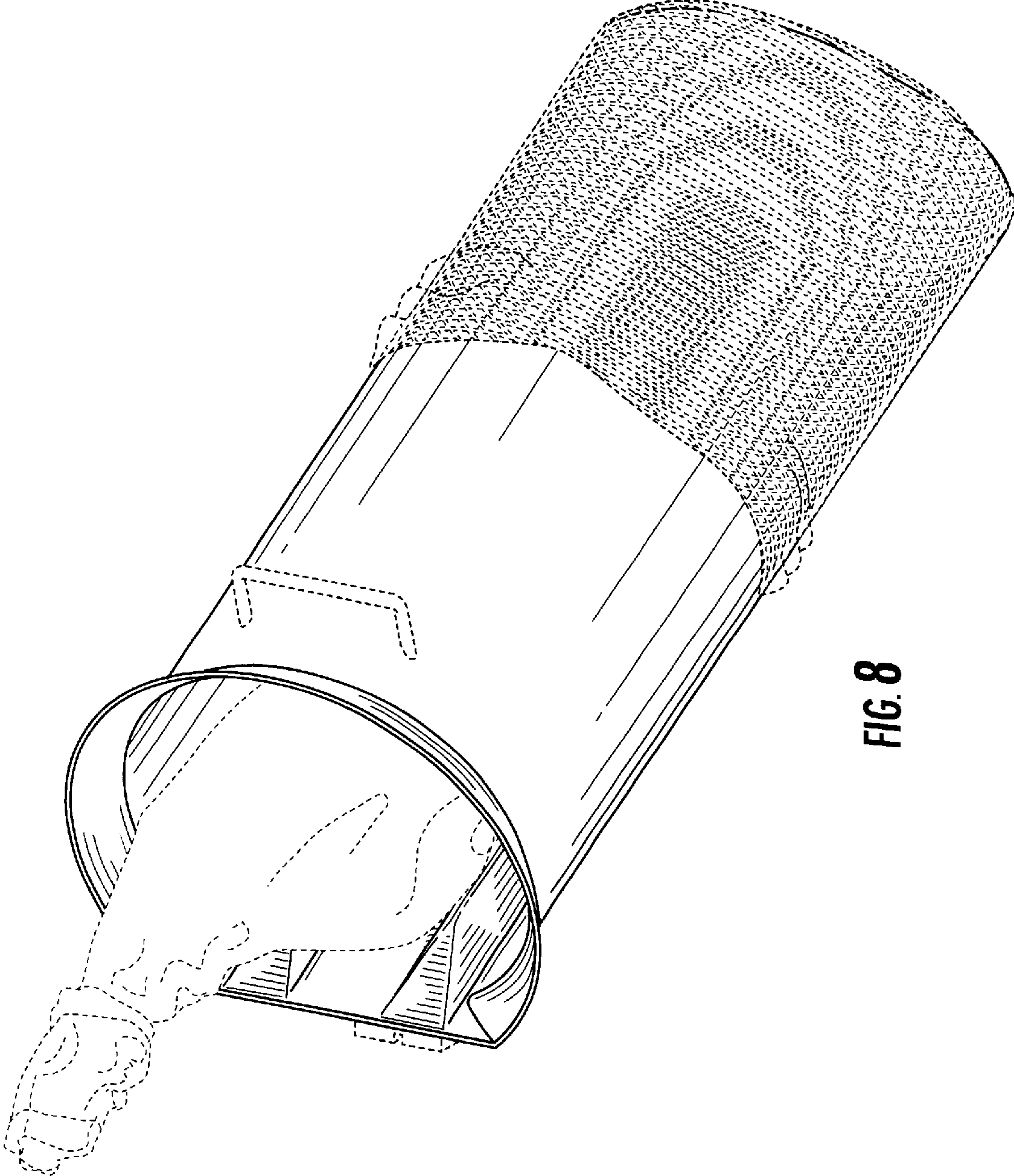


FIG. 8