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(12) United States Design Patent

Nguyen et al.

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(54) **CONNECTOR**

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(73) Assignee: **Molex, LLC**, Lisle, IL (US)

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

(21) Appl. No.: **29/619,000**

(22) Filed: **Sep. 26, 2017**

(51) **LOC (11) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/154**; D13/133; D13/147

(58) **Field of Classification Search**
USPC D8/349, 350, 353, 354, 355, 356, 359, D8/366, 367, 373, 74, 381, 382, 383, D8/385; D13/154, 110, 133, 146, 147, D13/155, 150, 151, 153, 156, 184, 199; D23/254, 262, 265, 266; D24/127–131, D24/112–114, 133, 186; 606/181, 185; 604/264, 523–528, 272, 187, 158, 604/164.01–164.11, 181, 184, 227; 600/101, 139, 143; 128/200.24, 207.14, 128/207.15; 439/578, 579, 580, 581, 582, 439/583, 584, 585, 694, 695, 944, 155, 439/306–309, 352, 460, 469, 597, 600, 439/607–610, 380
CPC H01R 12/716; H01R 2107/00; H01R 13/6658; H01R 13/6275; H01R 13/514
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,167,374	A		1/1965	Healy
RE33,611	E	*	6/1991	Michaels H01R 9/0527 439/462
D332,568	S	*	1/1993	Ozawa D8/397
D347,467	S	*	5/1994	Medvick D23/262
D367,467	S	*	2/1996	Nakamura D13/154
D383,378	S	*	9/1997	Schrader D23/262
5,743,759	A		4/1998	Pudims et al.
6,017,243	A		1/2000	Castaldo
D457,604	S	*	5/2002	Chen D23/262

(Continued)

OTHER PUBLICATIONS

AEM Performance Electronics; "Installation Instructions for PN: 30-8444 Universal Gauge Boot for 52MM (2 1/16") Gauges"; Publication date unknown but prior to filing date of present application, pp. 1-3, Advanced Engine Management Inc., Hawthorne, CA.

(Continued)

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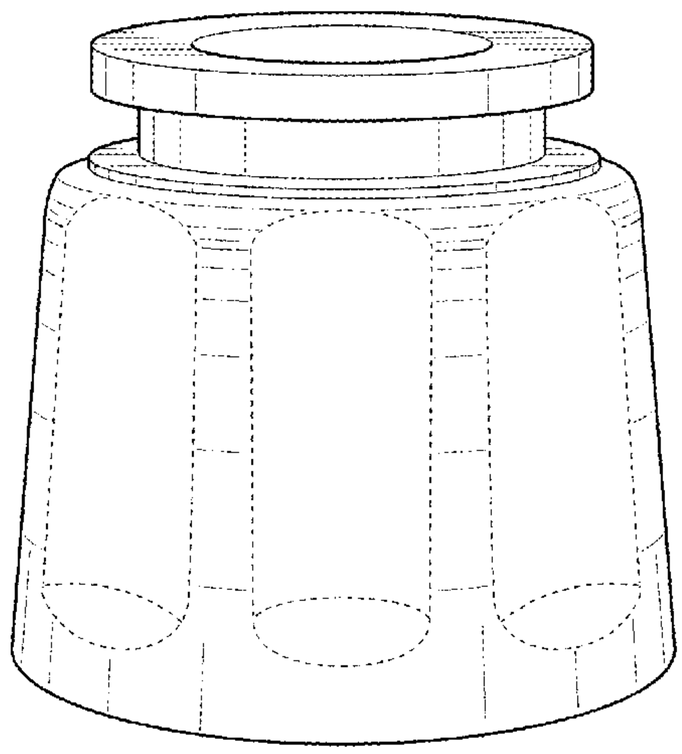
(57) **CLAIM**

The ornamental design for a connector, as shown and described.

DESCRIPTION

FIG. **1** is a front perspective view of a connector showing our new design;
FIG. **2** is a front elevation view thereof;
FIG. **3** is a right side elevation view thereof;
FIG. **4** is a left side elevation view thereof;
FIG. **5** is a top plan view thereof; and,
FIG. **6** is a rear elevation view thereof.
The broken lines immediately adjacent to the shaded area define the boundary of the claimed design form no part thereof. The unshaded interior wall of the connector visible in FIG. **1** forms no part of the claimed design. The broken line showing of the remainder of a connector represents unclaimed environmental subject matter and forms no part of the claimed design.

1 Claim, 6 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

D472,306	S	*	3/2003	Slothower	D23/249
D482,761	S	*	11/2003	Gotoh	D23/233
D484,036	S	*	12/2003	Koch	D8/397
D496,101	S	*	9/2004	Davison	D24/112
D520,351	S	*	5/2006	Alkalay	D8/382
D521,941	S	*	5/2006	Phung	D13/156
D538,727	S	*	3/2007	Wright	D12/207
D555,597	S	*	11/2007	Phung	D13/133
D568,969	S	*	5/2008	Bucchi	D23/262
D569,955	S	*	5/2008	Chen	D23/262
D577,795	S	*	9/2008	Smith	D23/262
D590,701	S	*	4/2009	Hockman	D8/382
D623,049	S	*	9/2010	Zeyfang	D8/397
D625,170	S	*	10/2010	McGrath	D8/355
7,857,647	B2		12/2010	Bracci et al.	
D637,697	S	*	5/2011	Steiner	D23/262
D659,103	S	*	5/2012	Natoli	D13/156
D688,796	S	*	8/2013	Niunoya	D24/127
D688,937	S	*	9/2013	Brewer	D8/382
D711,328	S	*	8/2014	Purdy	D13/156
D713,705	S	*	9/2014	Mina	D8/397
D719,244	S	*	12/2014	Yang	D23/262
D736,357	S	*	8/2015	Melo	D23/262
D760,384	S	*	6/2016	Niunoya	D24/127
D779,640	S	*	2/2017	Vaz	D23/262
D781,787	S	*	3/2017	Spiel	D13/149
D799,938	S	*	10/2017	Lowitz	D8/354
D806,241	S	*	12/2017	Swinney	D24/129
D810,029	S	*	2/2018	Robert	D13/151
2010/0055978	A1	*	3/2010	Montena	H01R 13/622 439/583
2013/0078856	A1	*	3/2013	Blew	F16C 19/00 439/578
2013/0143438	A1	*	6/2013	Wilson	H01R 9/0524 439/578
2014/0012204	A1	*	1/2014	Bosshardt	A61M 39/1011 604/187
2015/0147919	A1	*	5/2015	Seelig	H01R 13/506 439/695

OTHER PUBLICATIONS

Ericson Manufacturing; "Plug, NEMA 5-15 Straight Blade 125V 15A Perma-Kleen Watertight 4X/6P SM 14W47, 1510-PW6P-Am"; Publication date unknown but prior to filing date of present application; Date Accessed: Feb. 13, 2018; URL: < https://eselect.ericson.com/ecatalog/wiring-devices/en/1510-PW6P-AM>.

Ericson Manufacturing; "Connector, Perma-Tite NEMA 5-15R 2P/3W Straight Blade 15A 125V 1ph, Safety Yellow, 1610-CW6P"; Publication date unknown but prior to filing date of present application; Date Accessed: Feb. 13, 2018; URL: < https://eselect.ericson.com/ecatalog/wiring-devices/en/1610-CW6P>.

AMP Incorporated; "Instruction Sheet IS 7643"; AMP Circular Rubber Sealed Connectors (CRSC); pp. 1-2; AMP Incorporated, Harrisburg, PA.

Hubbell; "Watertight Devices, 15A, 125V, 2 Pole, 3 Wire, Straight Blade Plug"; Publication date unknown but prior to filing date of present application; Hubbell Wiring Device-Kellems; Shelton, CT.

Hubbell; "Watertight Devices, 15A, 125V, 2 Pole, 3 Wire, Straight Blade Connector"; Publication date unknown but prior to filing date of present application; Hubbell Wiring Device-Kellems; Shelton, CT.

Leviton; "15W47, 15 Amp, 125 Volt, NEMA 5-15R, 2P, 3W, Connector, Straight Blade, Industrial Grade, Grounding, Wetguard—Yellow"; Publication date unknown but prior to filing date of present application; pp. 1-2; Date Access: Feb. 16, 2018; URL: < http://www.leviton.com/en/products/15w47>.

Leviton; "14W47, 15 Amp, 125 Volt, NEMA 5-15R, 2P, 3W, Plug, Straight Blade, Industrial Grade, Grounding, Wetguard—Yellow"; Publication date unknown but prior to filing date of present application; pp. 1-3; Date Access: Feb. 16, 2018; URL: <http://www.leviton.com/en/products/14w47>.

* cited by examiner

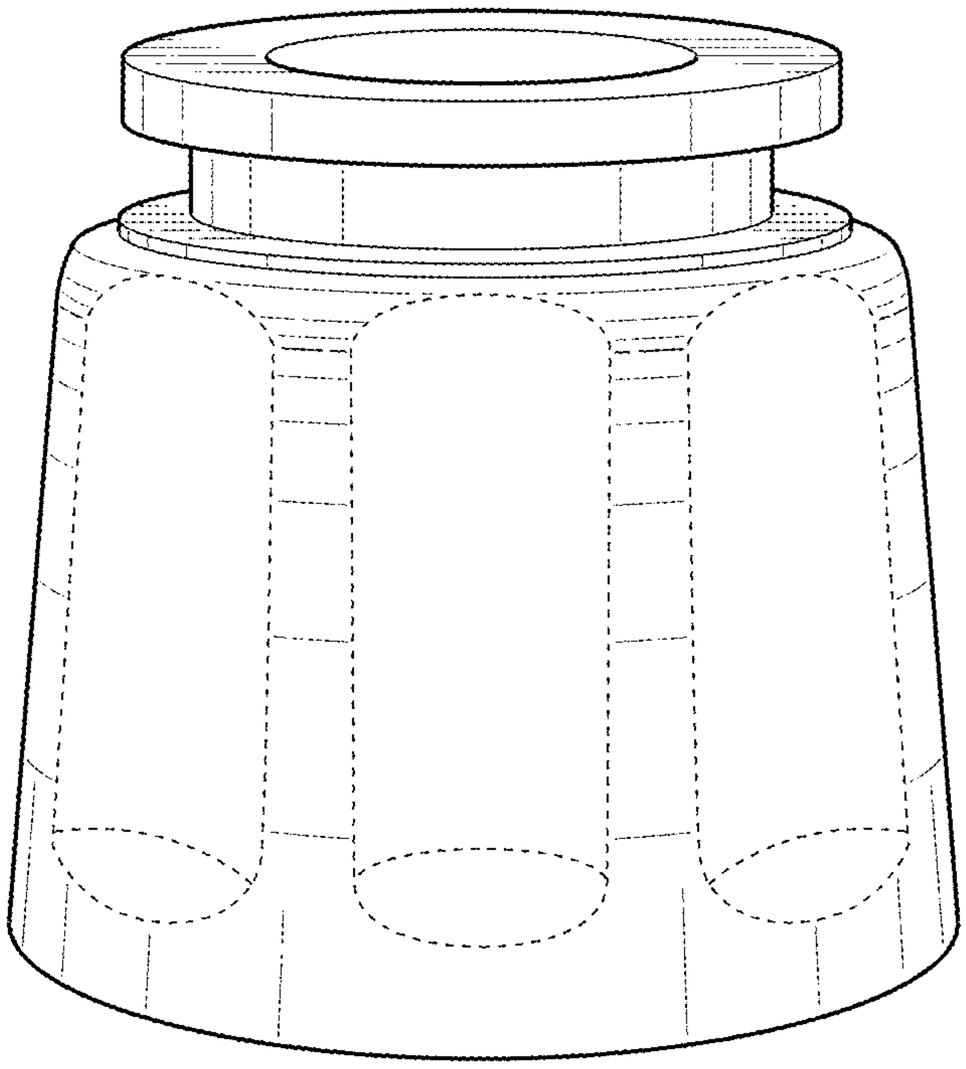


FIG. 1

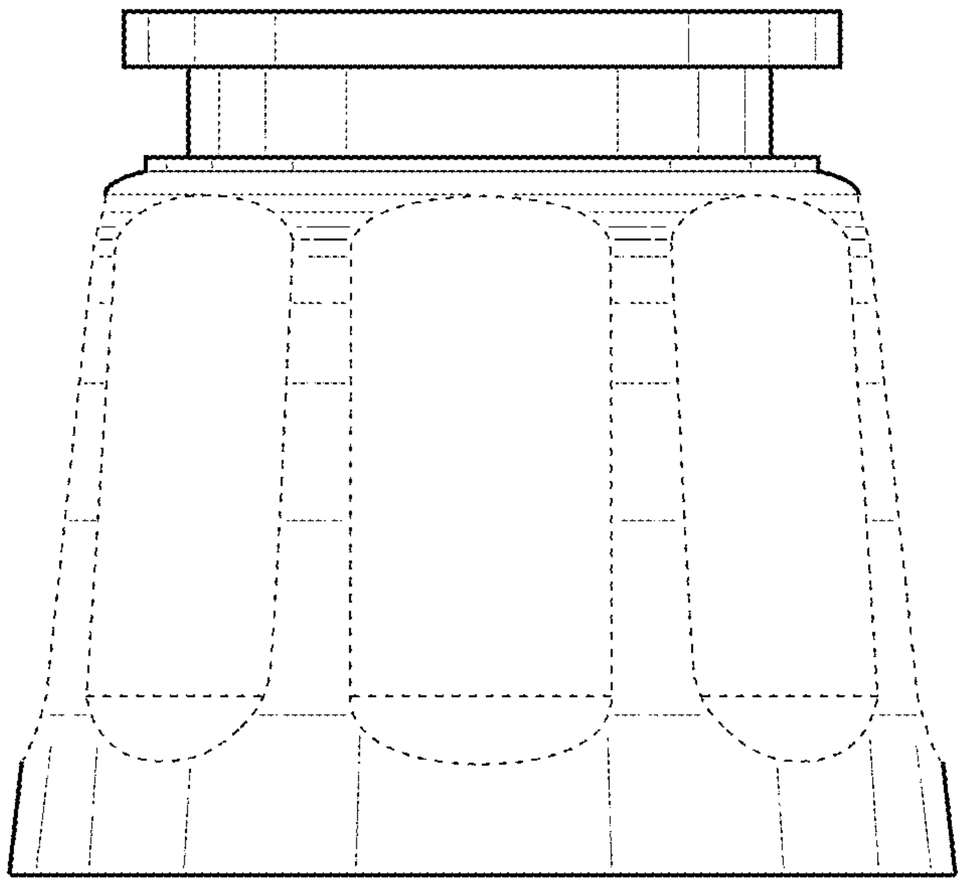


FIG. 2

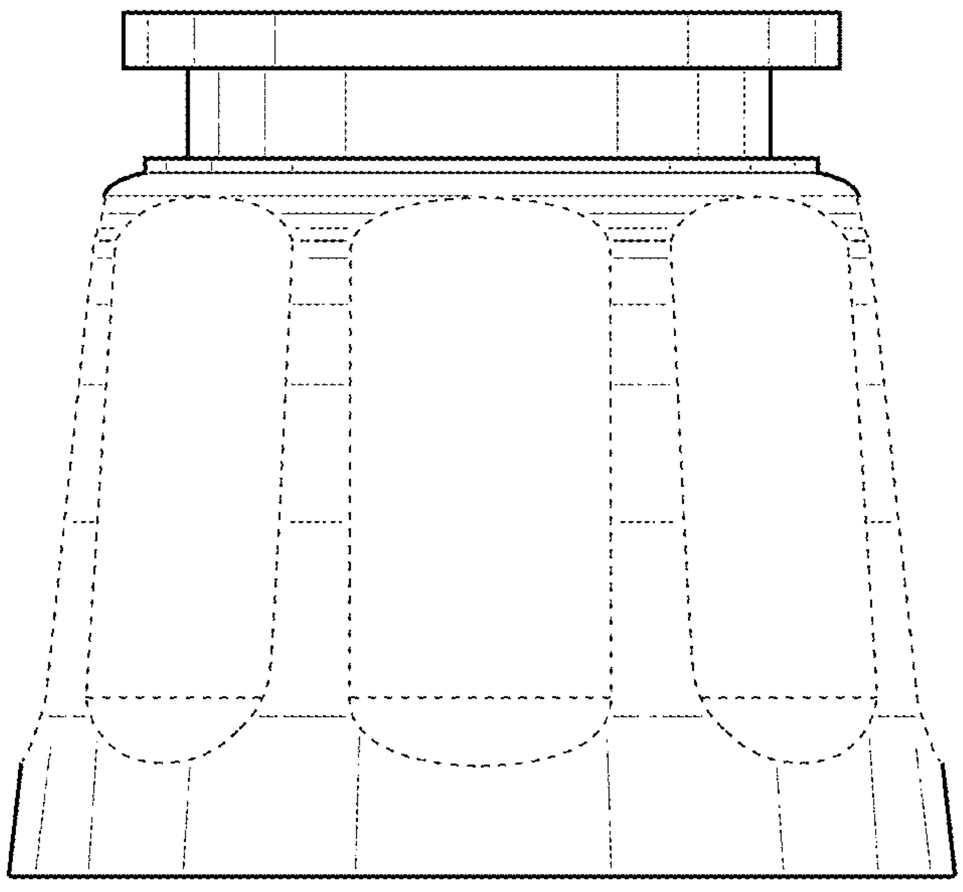


FIG. 3

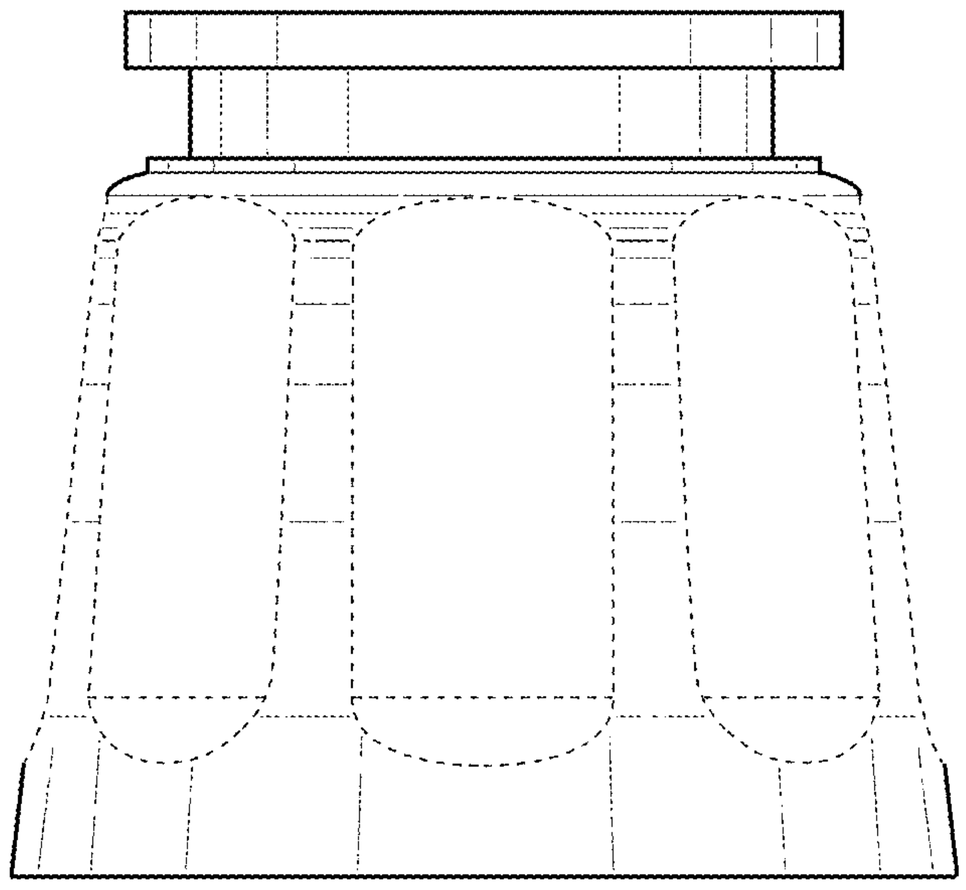


FIG. 4

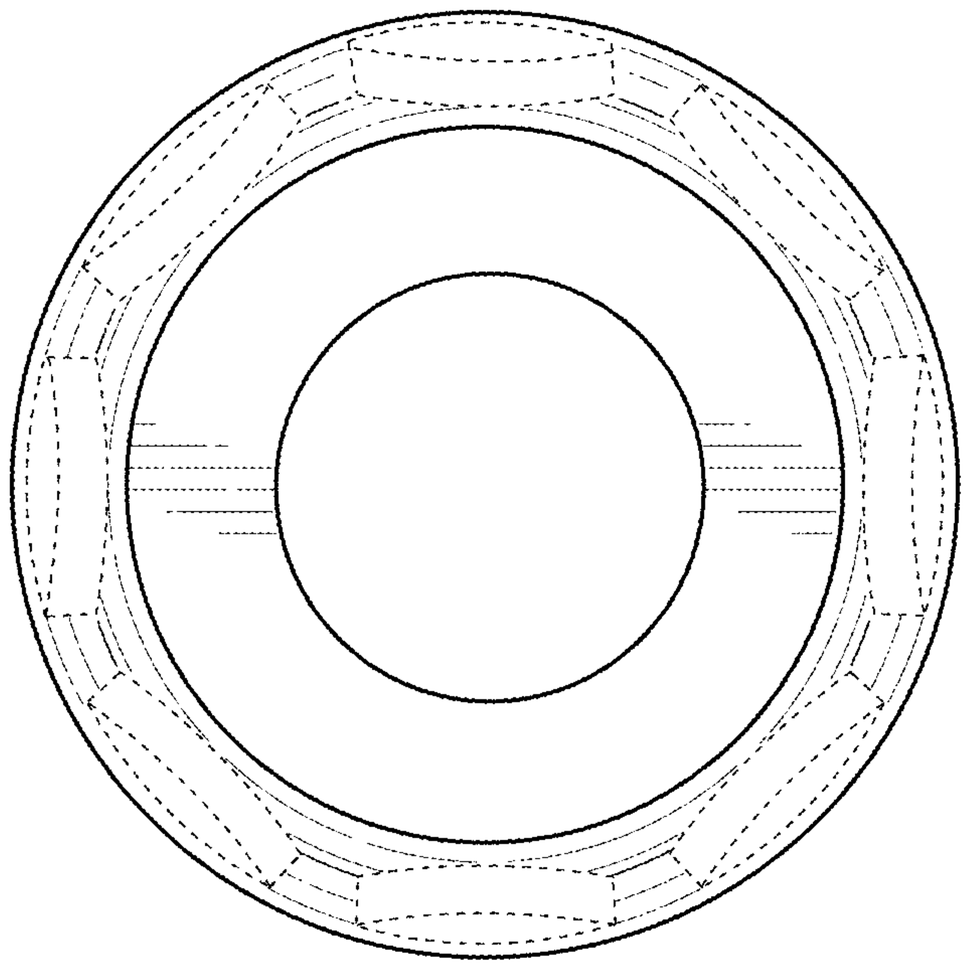


FIG. 5

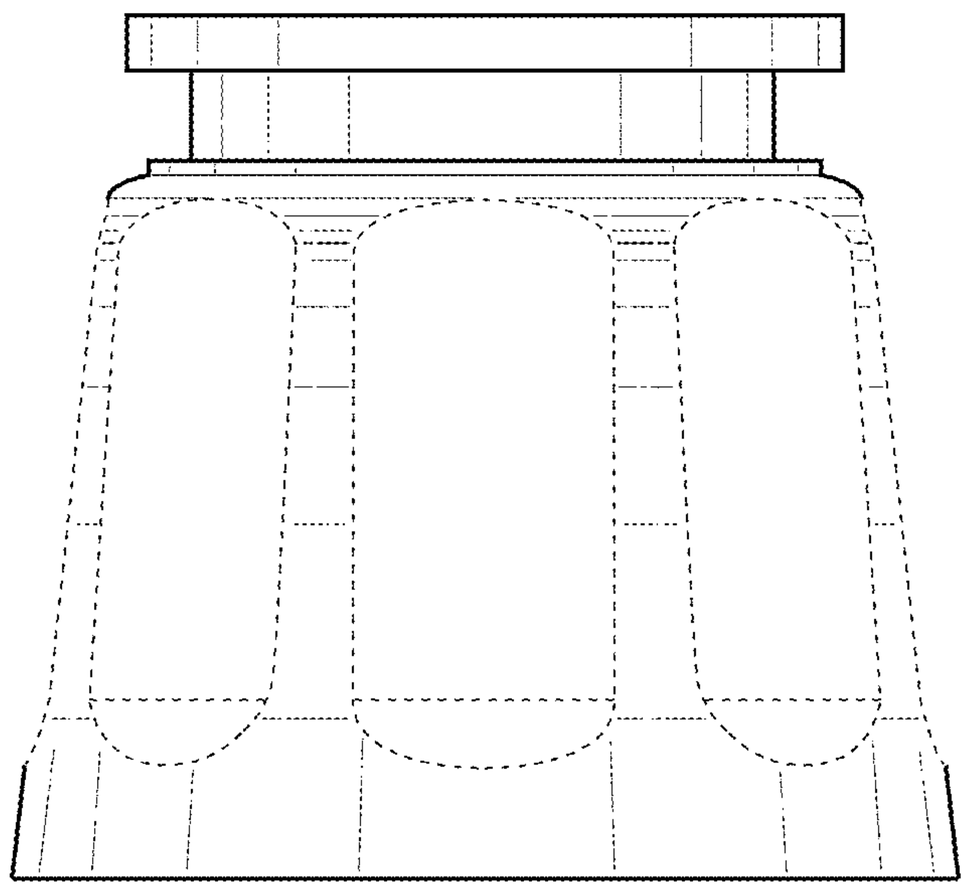


FIG. 6