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(12) **United States Design Patent** (10) **Patent No.:** **US D958,973 S**
Nicholas et al. (45) **Date of Patent:** **** Jul. 26, 2022**

(54) **AUTO-INJECTOR CAP** 4,900,309 A 2/1990 Netherton et al.
4,986,817 A 1/1991 Code
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Tarrytown, NY (US) 5,147,328 A 9/1992 Dragosits et al.
5,336,197 A 8/1994 Kuracina et al.
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FOREIGN PATENT DOCUMENTS

EP 2716318 4/2014
EP 004420388-0001 10/2017
(Continued)

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OTHER PUBLICATIONS

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

SHL Medical Products Molly Auto Injectors (http://www.shl-group.com/Products_SHLMedical_AutoInjectors_Molly.html), last accessed Jul. 26, 2018.

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(Continued)

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Related U.S. Application Data

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(51) **LOC (13) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/113**

(58) **Field of Classification Search**
USPC D24/112-114, 108, 133, 130, 127, 186;
606/181, 185; 604/264, 272, 187, 181,
604/184, 227
CPC A61M 5/178; A61M 3/00; A61M 5/20;
A61M 5/31; A61M 5/3146; A61M
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,046,145 A 9/1977 Choksi et al.
4,840,185 A 6/1989 Hernandez

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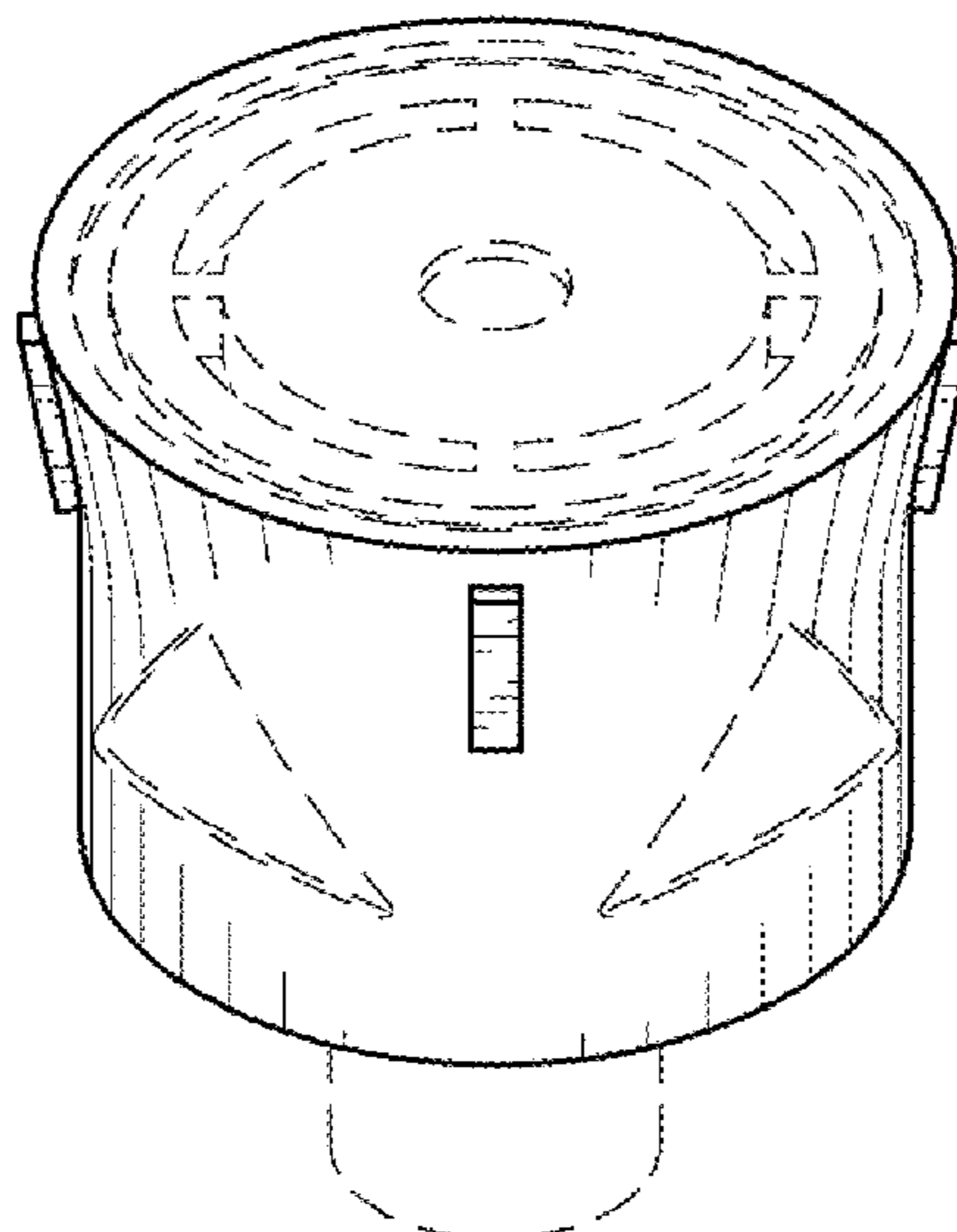
(57) **CLAIM**

The ornamental design for an auto-injector cap, as shown and described.

DESCRIPTION

FIG. 1 is a front right perspective view of an auto-injector cap showing our new design;
FIG. 2 is a front elevation view thereof;
FIG. 3 is a rear elevation view thereof;
FIG. 4 is a left side view thereof;
FIG. 5 is a right side view thereof;
FIG. 6 is a top plan view thereof; and,
FIG. 7 is a bottom view thereof;
The broken lines shown in the drawings illustrate portions of the auto-injector cap that form no part of the claimed design.

1 Claim, 2 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,519,931 A	5/1996	Reich	D696,397 S	12/2013	Guarraia et al.
5,554,127 A	9/1996	Crouther et al.	D696,771 S	12/2013	Schneider et al.
5,554,133 A	9/1996	Haffner et al.	D696,773 S	12/2013	Schneider et al.
5,716,346 A	2/1998	Farris	D696,774 S	12/2013	Guarraia et al.
5,843,036 A	12/1998	Olive et al.	D696,775 S	12/2013	Guarraia et al.
5,897,266 A	4/1999	Robert	D697,205 S	1/2014	Schneider et al.
5,997,513 A	12/1999	Smith et al.	D703,314 S	4/2014	Schneider et al.
D426,299 S	6/2000	Bydlon et al.	D707,351 S	6/2014	Kunze
D428,651 S	7/2000	Andersson et al.	D707,352 S	6/2014	Liu et al.
6,206,855 B1	3/2001	Kunkel et al.	D708,317 S	7/2014	Schneider et al.
D447,799 S *	9/2001	Jun D24/130	D710,498 S *	8/2014	Koshidaka D24/130
D460,552 S *	7/2002	Niermann D24/130	8,801,679 B2	9/2014	Iio et al.
D462,760 S	9/2002	Ahlgrim et al.	8,821,451 B2	9/2014	Daniel
D479,599 S	9/2003	Bainton	D714,932 S	10/2014	Hall et al.
D479,601 S	9/2003	Tyce	D715,422 S	10/2014	Hall et al.
D479,602 S	9/2003	Bainton	D716,442 S	10/2014	Magome et al.
D479,603 S	9/2003	Tyce	8,864,718 B2	10/2014	Karlsen et al.
D479,747 S	9/2003	Bainton	8,870,827 B2	10/2014	Young et al.
D479,748 S	9/2003	Tyce	D717,428 S	11/2014	Sendatzki et al.
D481,120 S	10/2003	Hawley et al.	D717,940 S	11/2014	Magome et al.
D488,864 S	4/2004	Fago et al.	8,888,713 B2	11/2014	Crawford et al.
D490,149 S	5/2004	Hawley et al.	9,022,982 B2	5/2015	Karlsson et al.
D490,150 S	5/2004	Hawley et al.	D733,869 S *	7/2015	Ratjen D24/113
D490,151 S	5/2004	Hawley et al.	9,078,973 B2	7/2015	Harms et al.
D492,027 S	6/2004	Tyce et al.	9,132,236 B2	9/2015	Karlsson et al.
D492,405 S	6/2004	Bainton	D740,937 S	10/2015	Schneider et al.
D493,526 S	7/2004	Hwang	9,199,038 B2	12/2015	Daniel
D503,797 S	4/2005	Tyce	9,216,251 B2	12/2015	Daniel
7,189,217 B2	3/2007	Chang et al.	9,220,841 B2	12/2015	Daniel
7,307,265 B2	12/2007	Polsinelli et al.	9,220,847 B2	12/2015	Holmqvist et al.
D561,894 S	2/2008	Hudson	D748,253 S *	1/2016	Ratjen D24/130
7,338,474 B2	3/2008	Kirk	9,247,899 B2	2/2016	Shaw et al.
7,414,254 B2	8/2008	Polsinelli et al.	D752,211 S	3/2016	Sanders et al.
D581,047 S	11/2008	Koshidaka	D755,369 S	5/2016	Sanders et al.
7,449,012 B2	11/2008	Young et al.	D755,370 S	5/2016	Riess et al.
D596,289 S *	7/2009	Kawamura D24/130	D757,254 S	5/2016	Wohlfahrt et al.
D598,539 S	8/2009	Tyce	D757,255 S	5/2016	Wohlfahrt et al.
D599,008 S	8/2009	Tyce	D758,567 S	6/2016	Wohlfahrt et al.
D599,009 S	8/2009	Tyce	D758,568 S	6/2016	Wohlfahrt et al.
D599,010 S	8/2009	Tyce	D758,569 S	6/2016	Wohlfahrt et al.
D599,011 S	8/2009	Tyce	D764,657 S	8/2016	Bokelman et al.
D600,794 S	9/2009	Tyce	9,468,722 B2	10/2016	Olson
D600,795 S	9/2009	Tyce	D773,039 S	11/2016	Sanders et al.
D606,649 S	12/2009	Tyce	D773,648 S	12/2016	Wohlfahrt et al.
D606,650 S	12/2009	Tyce	D774,641 S	12/2016	Miggels et al.
7,635,348 B2	12/2009	Raven et al.	D777,907 S	1/2017	Amend Kwasnik et al.
D608,442 S	1/2010	Tyce	D777,912 S *	1/2017	Wohlfahrt D24/130
D610,251 S	2/2010	Tyce	9,566,380 B1	2/2017	Tcholakian
D610,252 S	2/2010	Tyce	D780,909 S	3/2017	Burkett et al.
D610,676 S	2/2010	Tyce	9,586,010 B2	3/2017	Mesa et al.
D612,486 S	3/2010	Van der Stappen	9,604,004 B2	3/2017	Jakobsen
7,682,155 B2	3/2010	Raven et al.	D783,816 S *	4/2017	Wohlfahrt D24/130
D616,089 S *	5/2010	Van der Stappen D24/113	D785,784 S	5/2017	Jones et al.
D619,247 S	7/2010	Loe, Jr.	D787,666 S	5/2017	Ohashi
D621,929 S *	8/2010	Van der Stappen D24/130	D794,178 S	8/2017	Daniel et al.
D623,738 S *	9/2010	Van der Stappen D24/130	D794,777 S	8/2017	Daniel et al.
7,794,432 B2	9/2010	Young et al.	D800,897 S	10/2017	Aneas
7,846,136 B2	12/2010	Witowski	D810,282 S	2/2018	Ratjen
7,905,352 B2	3/2011	Wyrick	D814,022 S	3/2018	Boyaval et al.
D641,077 S	7/2011	Sanders et al.	D818,587 S	5/2018	Shang et al.
D651,305 S	12/2011	Hawley et al.	D827,127 S	8/2018	Donnelly
8,269,201 B2	9/2012	Fago et al.	D830,539 S	10/2018	Boyaval et al.
D671,638 S	11/2012	Young et al.	10,149,945 B2	12/2018	Moser et al.
D676,957 S	2/2013	Schneider et al.	D892,311 S *	8/2020	Nicholas D24/113
8,376,998 B2	2/2013	Daily et al.	D898,191 S *	10/2020	Nicholas D24/130
D677,380 S	3/2013	Julian et al.	2003/0026642 A1	2/2003	Schwartzman
D687,543 S	8/2013	Pala et al.	2004/0116875 A1	6/2004	Fischer et al.
D688,790 S	8/2013	Guarraia et al.	2005/0011911 A1	1/2005	Vaughan
D688,791 S	8/2013	Guarraia et al.	2007/0039156 A1	2/2007	Reich
D688,793 S	8/2013	Guarraia et al.	2007/0113861 A1	5/2007	Knudsen et al.
D690,416 S	9/2013	Cappello et al.	2007/0239114 A1	10/2007	Edwards et al.
8,529,510 B2	9/2013	Giambattista et al.	2008/0009808 A1	1/2008	Berler
D692,129 S	10/2013	Dubuc et al.	2008/0210225 A1	9/2008	Geiger
D694,879 S	12/2013	Julian et al.	2008/0269692 A1	10/2008	James et al.
D695,892 S	12/2013	Cappello et al.	2008/0289984 A1	11/2008	Raven et al.
			2008/0312604 A1	12/2008	Boesen
			2010/0266326 A1	10/2010	Chuang
			2013/0030375 A1	1/2013	Daily et al.
			2013/0041328 A1	2/2013	Daniel

(56)

References Cited

U.S. PATENT DOCUMENTS

2013/0041347	A1	2/2013	Daniel
2013/0281934	A1	10/2013	Wilmot et al.
2014/0358037	A1	12/2014	Crawford et al.
2015/0011944	A1	1/2015	Young et al.
2015/0045742	A1	2/2015	Cheung
2015/0051580	A1	2/2015	Shain et al.
2015/0065960	A1	3/2015	Osman
2015/0073383	A1	3/2015	Wilmot et al.
2015/0080807	A1	3/2015	Schneider et al.
2015/0352278	A1	12/2015	Morita et al.
2015/0374918	A1	12/2015	Kumar et al.
2016/0051760	A1	2/2016	Krusell et al.
2016/0051764	A1	2/2016	Dreier et al.
2016/0067407	A1	3/2016	Daniel
2016/0089498	A1	3/2016	Daniel
2016/0158460	A1	6/2016	Mesa et al.
2016/0213845	A1	7/2016	Holmqvist
2016/0263327	A1	9/2016	Radmer et al.
2016/0279334	A1	9/2016	Daniel
2016/0317745	A1	11/2016	Kjeldsen et al.
2016/0375196	A1	12/2016	Wilmot et al.
2018/0133407	A1	5/2018	Kemp et al.
2018/0304067	A1	10/2018	Ryan
2018/0311442	A1	11/2018	Saussaye et al.
2018/0353692	A1	12/2018	Saussaye et al.

FOREIGN PATENT DOCUMENTS

EP	004420388-0002	10/2017
EP	004420388-0003	10/2017
EP	004420388-0004	10/2017
EP	004420388-0005	10/2017
EP	004420388-0006	10/2017
EP	004420388-0007	10/2017

EP	004420388-0008	10/2017
EP	004420388-0009	10/2017
EP	004420388-0010	10/2017
EP	004420388-0011	10/2017
FR	3043562	5/2017
GB	2233607 A	1/1991
JP	10166785 A	6/1998
JP	2000025385 A	1/2000
JP	2003-290353 A	10/2003
JP	1401278	11/2010
JP	1401279	11/2010
JP	1401281	11/2010
JP	1401282	11/2010
JP	1401283	11/2010
JP	1587411	10/2017
WO	WO 2012/073042 A1	6/2012
WO	WO 2015/026737 A1	2/2015
WO	WO 2016/062807 A1	4/2016
WO	WO 2016/193350 A1	12/2016
WO	WO 2017/004345 A1	1/2017
WO	WO 2017/081421 A1	5/2017
WO	WO 2019006296 A1	1/2019

OTHER PUBLICATIONS

International Search Report and Written Opinion issued in PCT/US2018/040282 dated Nov. 13, 2018 (13 pages).
 EUIPO Design Gazette, 004420388-0001, HH29206315 (Oct. 25, 2017).
 EUIPO Design Gazette, 004420388-0011, HH29206317 (Oct. 25, 2017).
 International Bureau Design Gazette, DM/092744, HH29502547 (Sep. 6, 2016).
 International Bureau Design Gazette, DM/098096, HH29513908 (Sep. 11, 2017).

* cited by examiner

FIG. 1

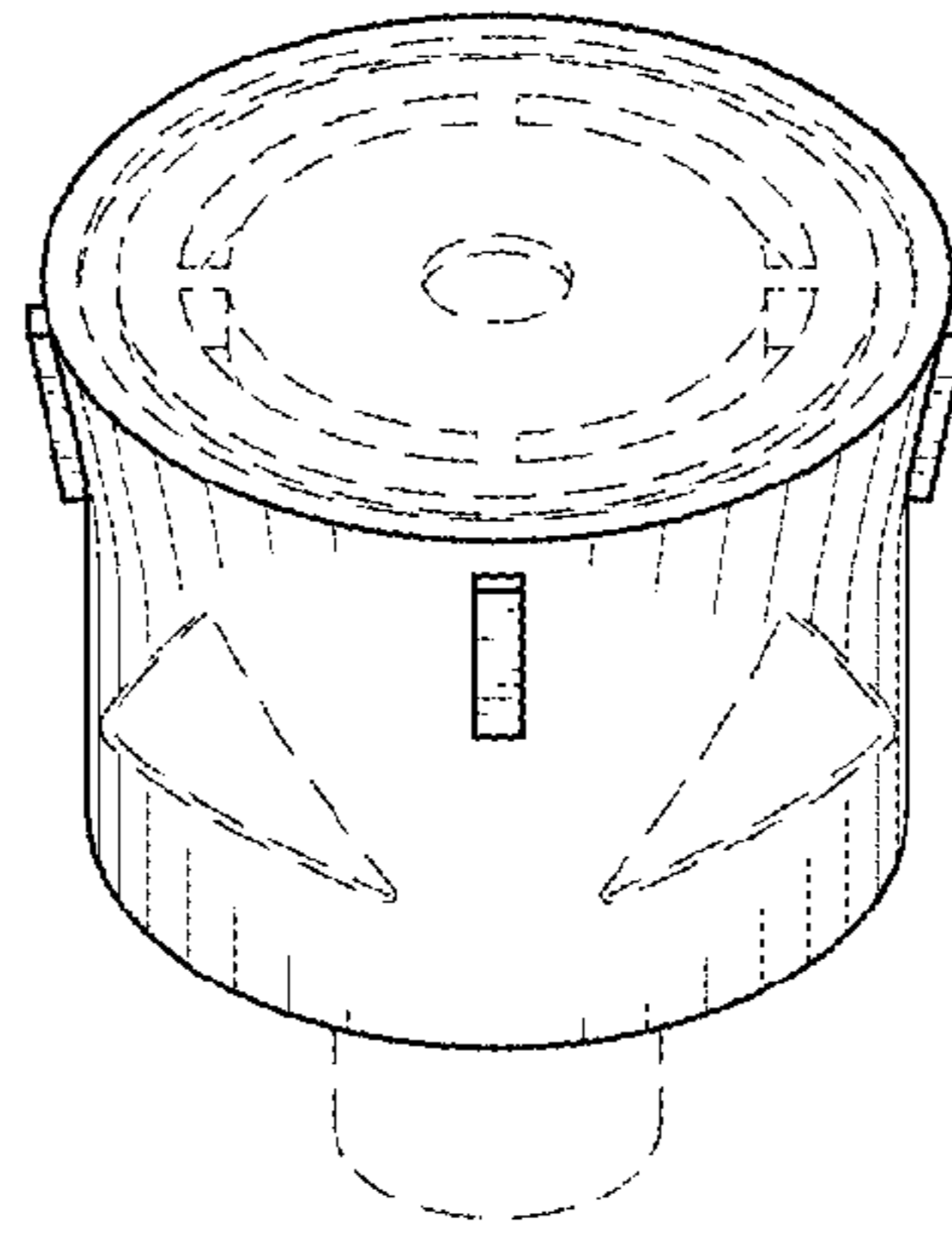


FIG. 2

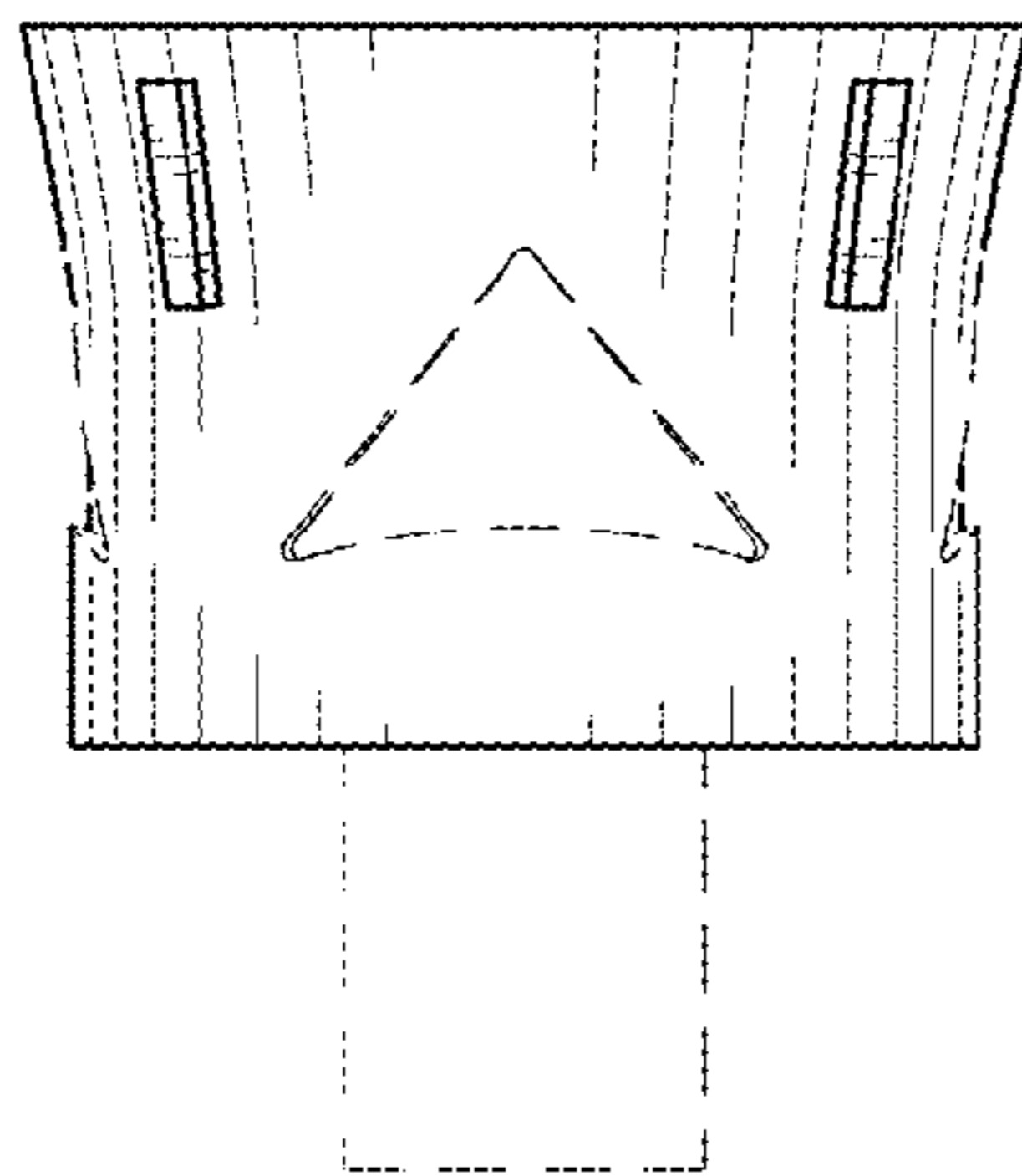


FIG. 3

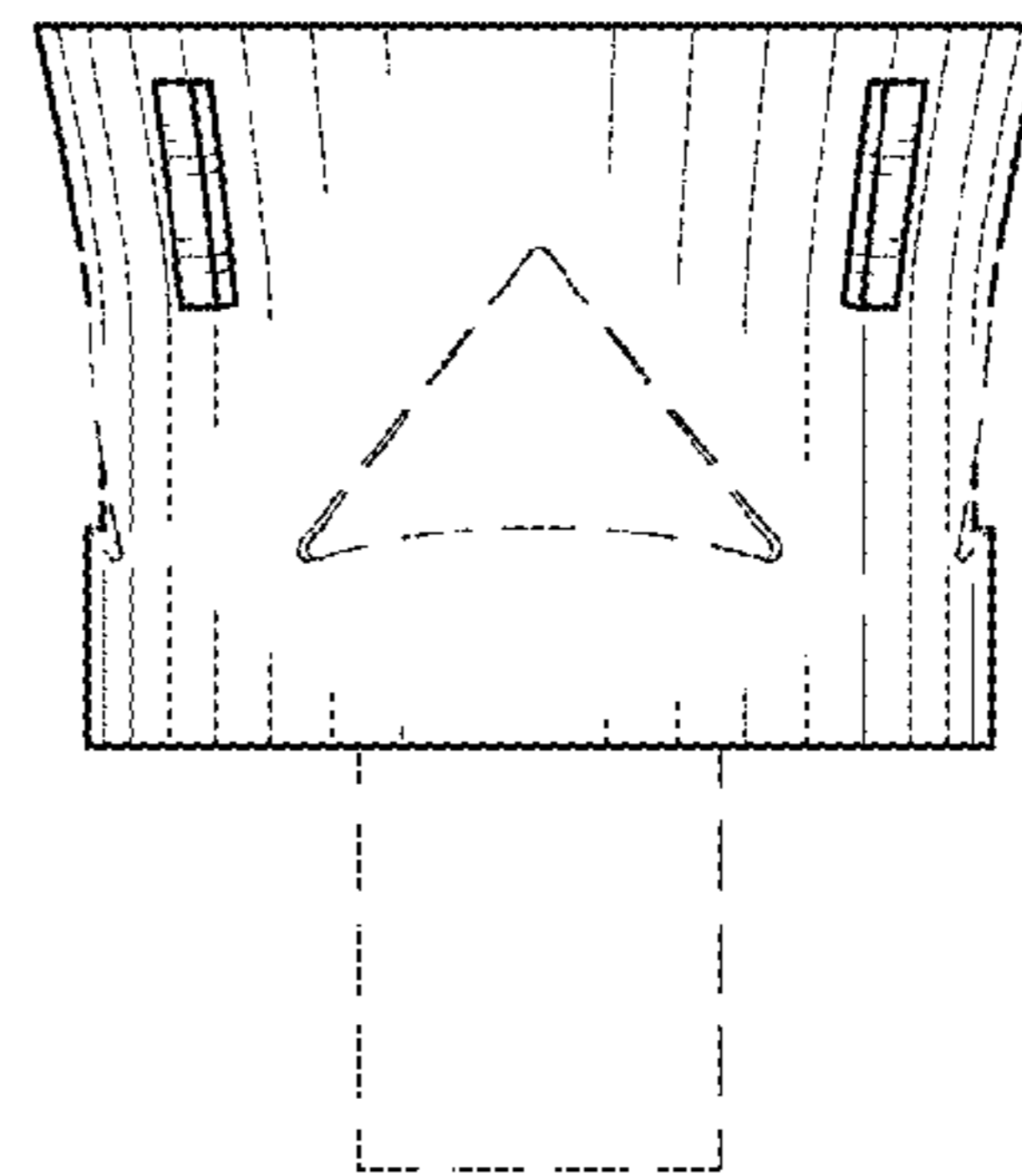


FIG. 4

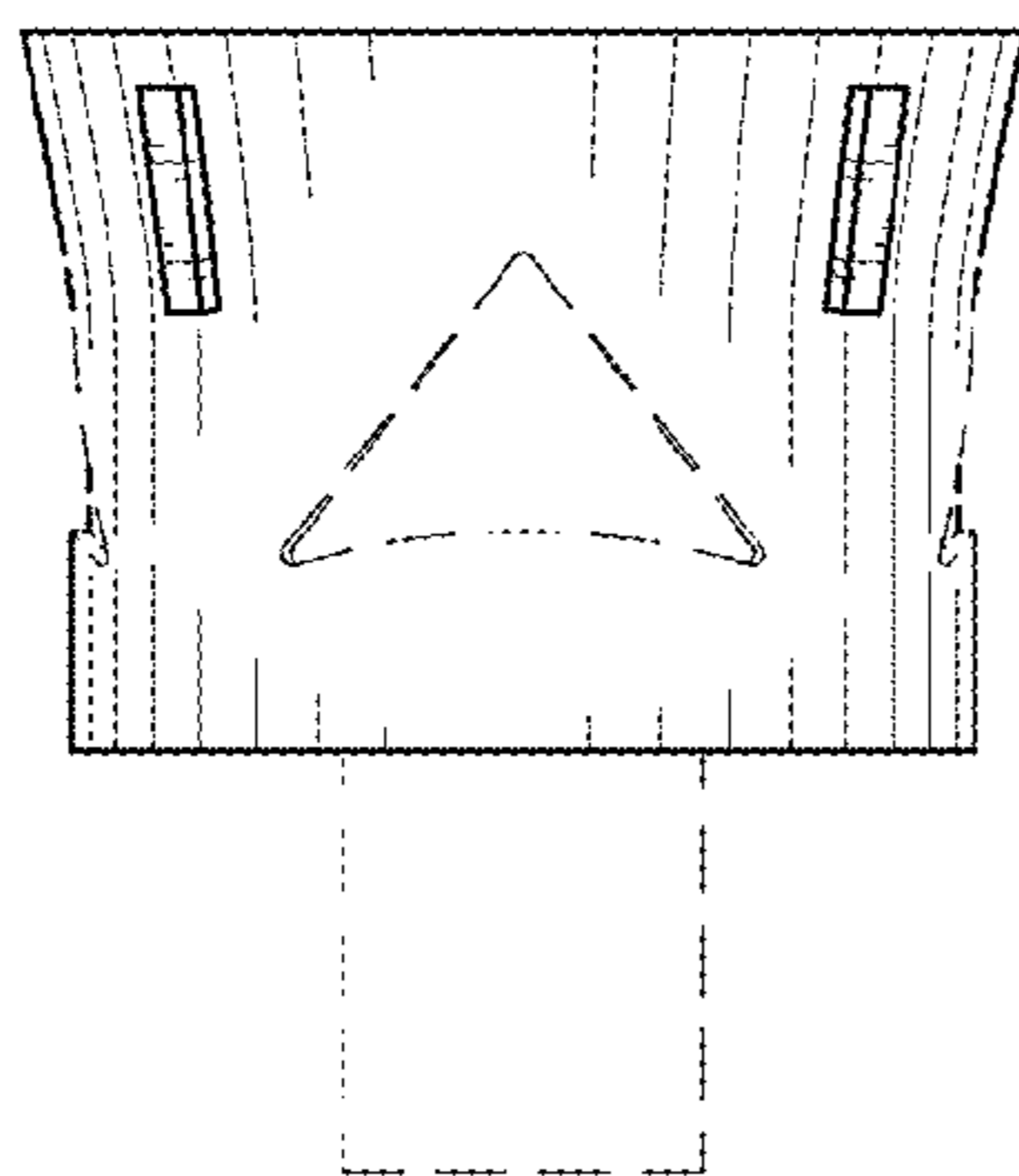


FIG. 5

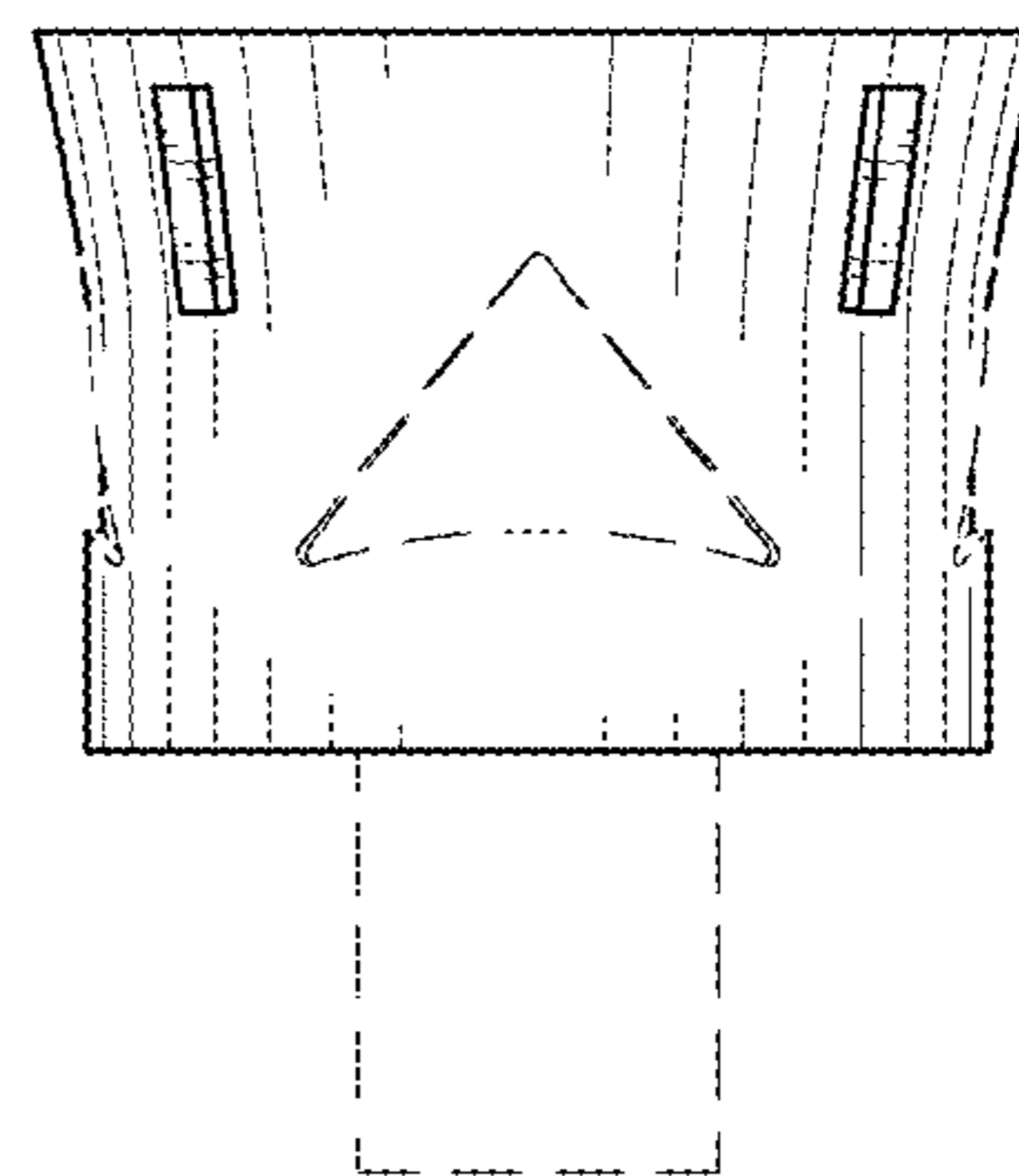


FIG. 6

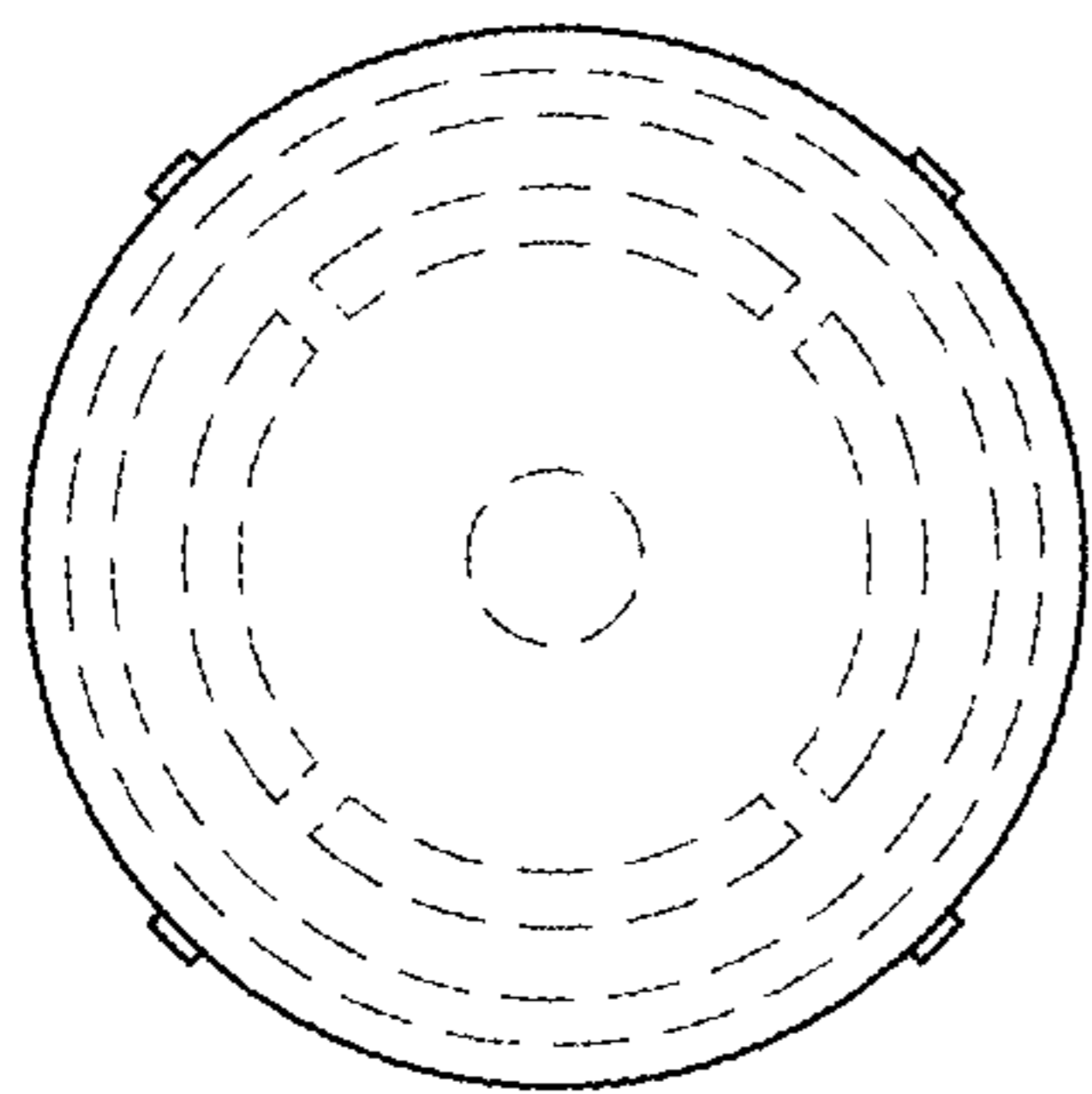


FIG. 7

