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(12) **United States Design Patent** (10) **Patent No.:** **US D932,006 S**
Nicholas et al. (45) **Date of Patent:** **** Sep. 28, 2021**

(54) **AUTO-INJECTOR CAP**
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5,336,197 A 8/1994 Kuracina et al.
5,509,903 A 4/1996 Grendahl et al.
5,519,931 A 5/1996 Reich
5,554,127 A 9/1996 Crouther et al.
5,554,133 A 9/1996 Haffner et al.
5,716,346 A 2/1998 Farris
5,843,036 A 12/1998 Olive et al.

(Continued)

FOREIGN PATENT DOCUMENTS

EP 2716318 4/2014
EP 2716318 A1 4/2014

(Continued)

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OTHER PUBLICATIONS

International Search Report and Written Opinion issued in PCT/
US2018/040282 dated Nov. 13, 2018 (13 pages).

(Continued)

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(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.

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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.

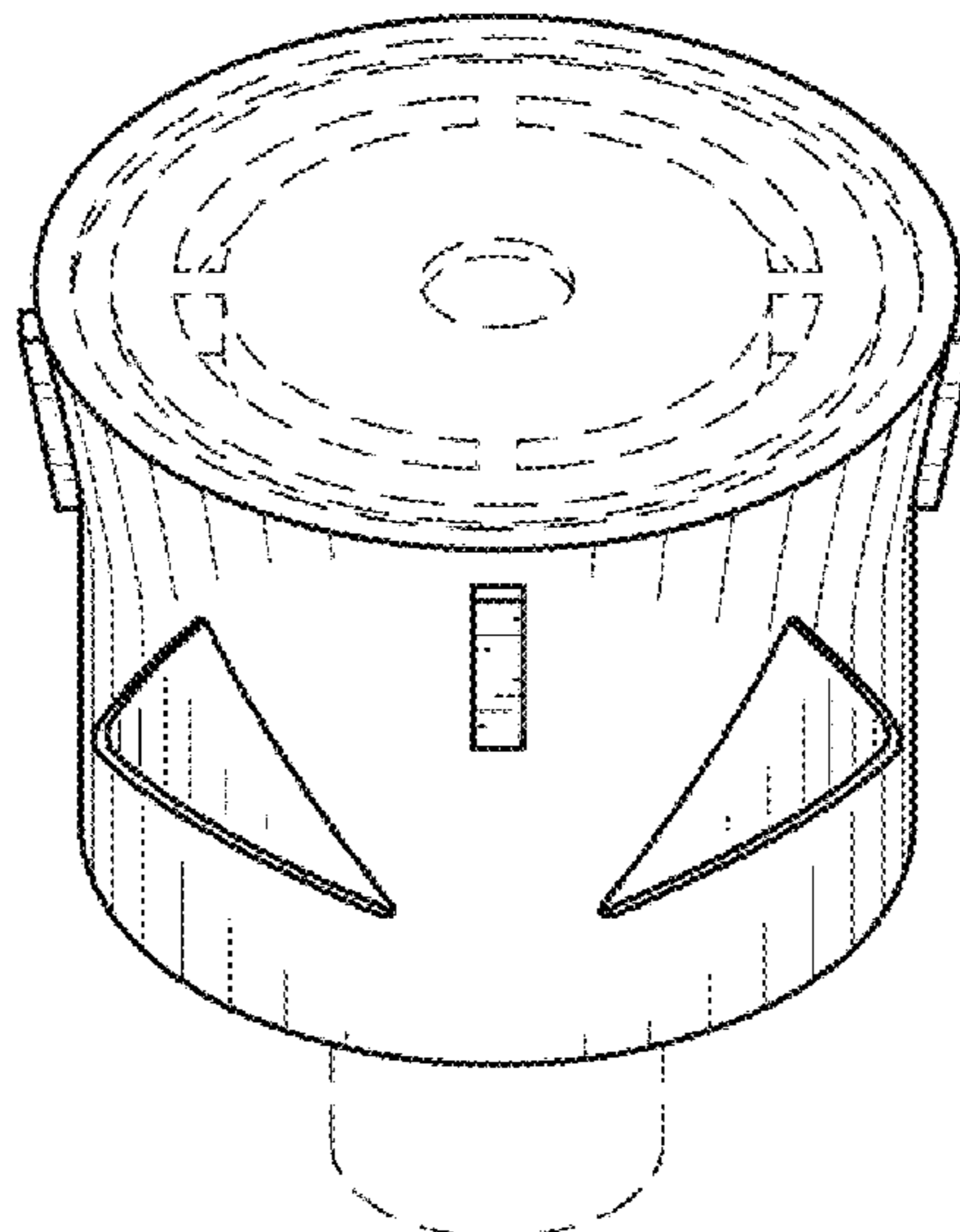
The broken lines shown in the drawings illustrate portions of
the auto-injector cap that form no part of the claimed design.

1 Claim, 2 Drawing Sheets

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,046,145 A 9/1977 Choksi et al.
4,840,185 A 6/1989 Hernandez
4,900,309 A 2/1990 Netherton et al.
4,986,817 A 1/1991 Code
5,000,603 A 3/1991 Isoda
5,147,328 A 9/1992 Dragosits et al.



(56)

References Cited

U.S. PATENT DOCUMENTS

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.
 2018/0304067 A1 10/2018 Ryan
 2018/0311442 A1 11/2018 Saussaye et al.
 2018/0353692 A1 12/2018 Saussaye et al.

FOREIGN PATENT DOCUMENTS

EP 004420388-0001 10/2017
 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
 FR 3043562 A1 5/2017

GB 2233607 A 1/1991
 JP 10166785 A 6/1998
 JP 2000025385 A 1/2000
 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-2015026737 A1 2/2015
 WO WO-2019006296 A1 1/2019

OTHER PUBLICATIONS

International Search Report and Written Opinion for PCT Application No. PCT/US2018/040282, dated Nov. 13, 2018, 13 pages.
 SHL Medical Products Molly Auto-Injectors, Retrieved from the internet [URL: http://www.shl-group.com/Products_SHLMedical_AutoInjectors_Molly.html] last accessed Jul. 26, 2018, 5 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).
 SHL Medical Products Molly Auto Injectors (http://www.shl-group.com/Products_SHLMedical_AutoInjectors_Molly.html), last accessed Jul. 26, 2018.

* cited by examiner

FIG. 1

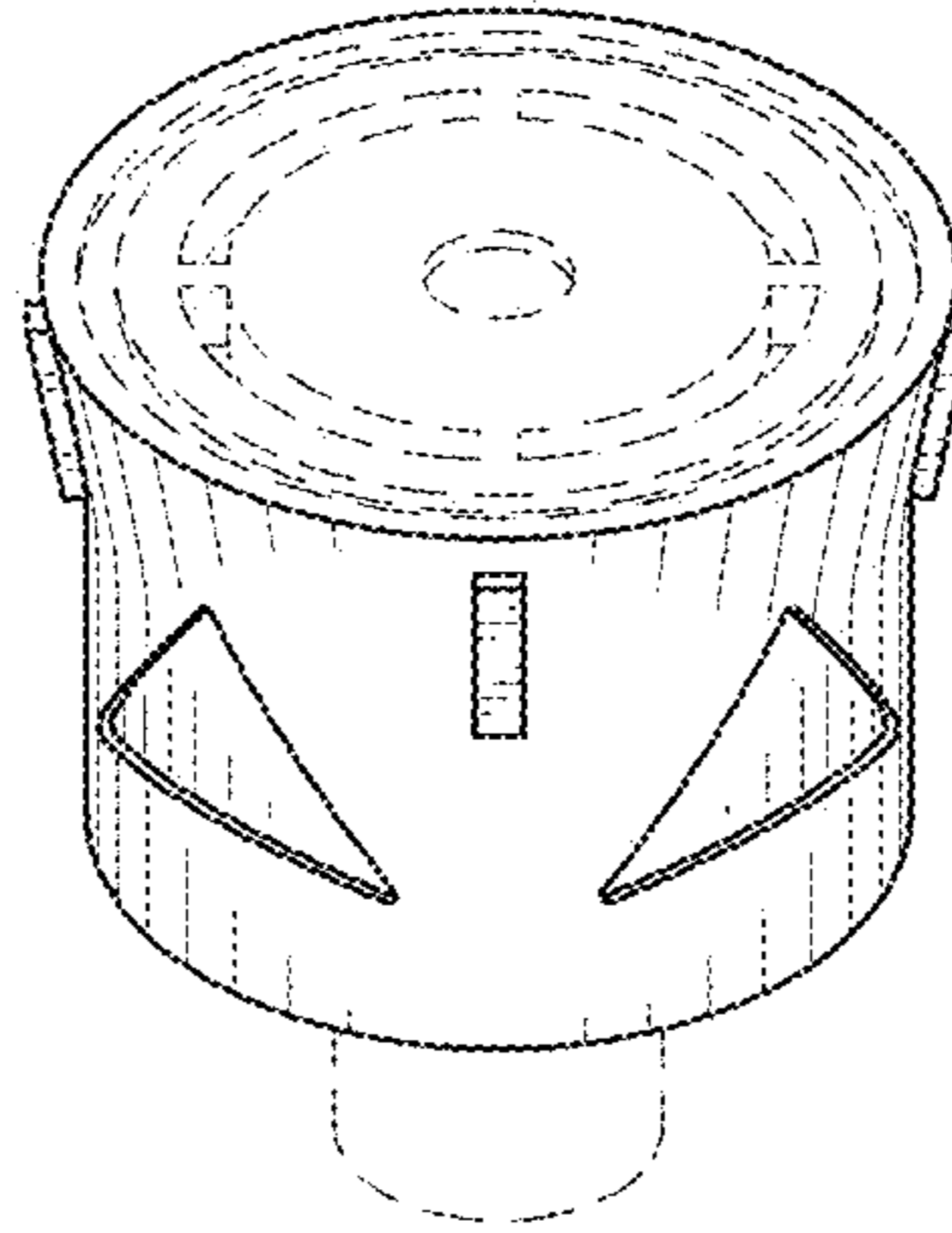


FIG. 2

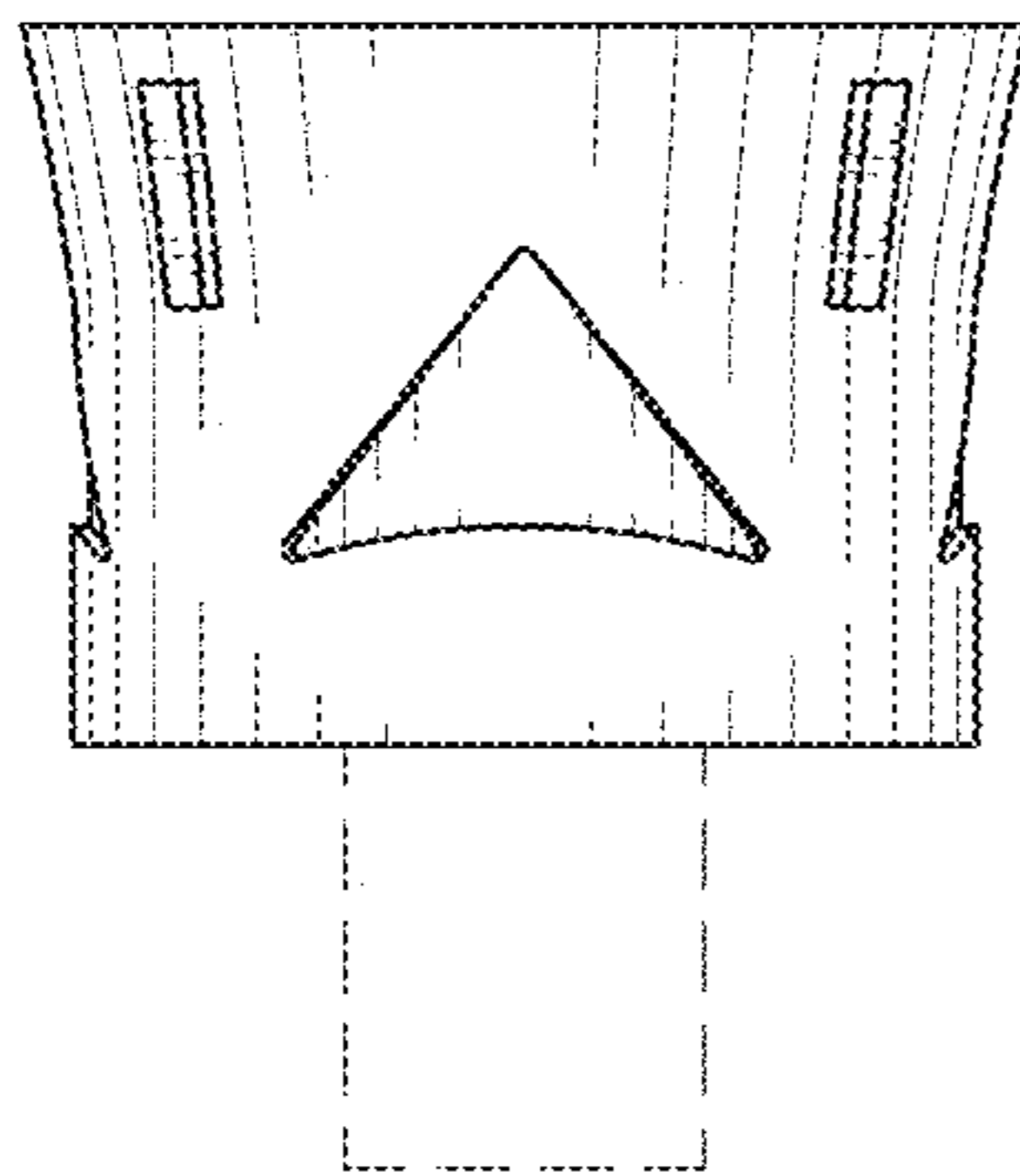


FIG. 3

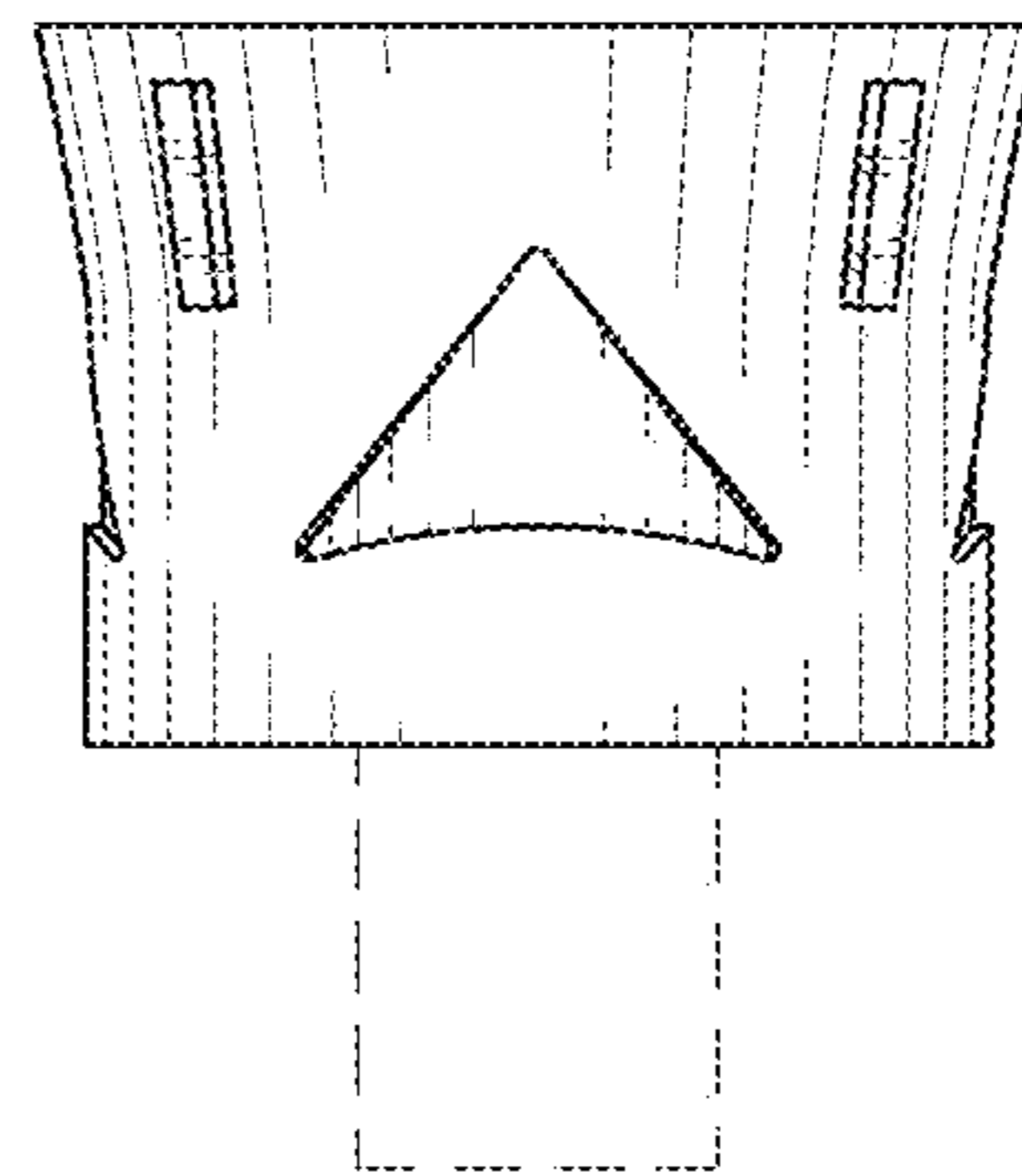


FIG. 4

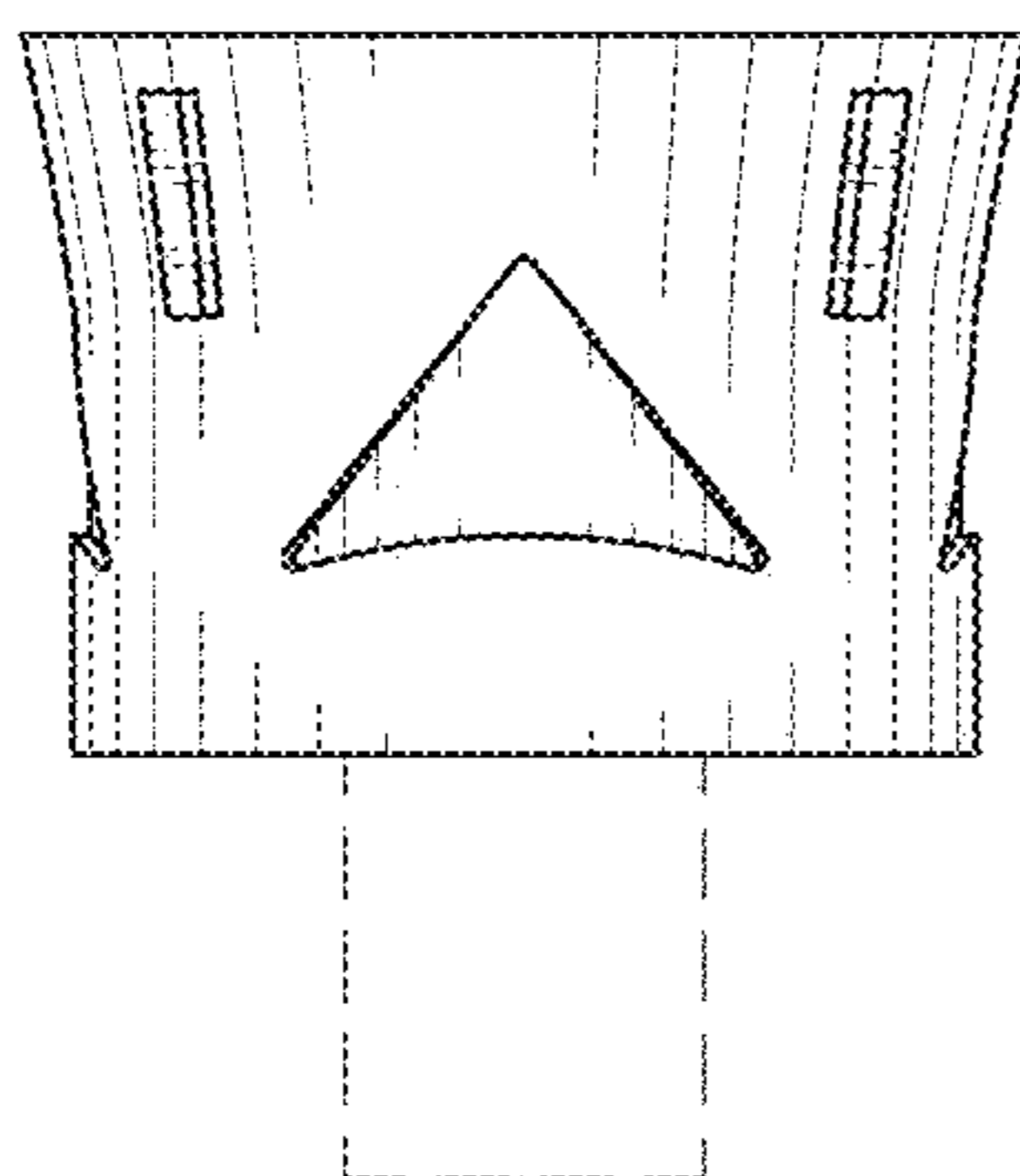


FIG. 5

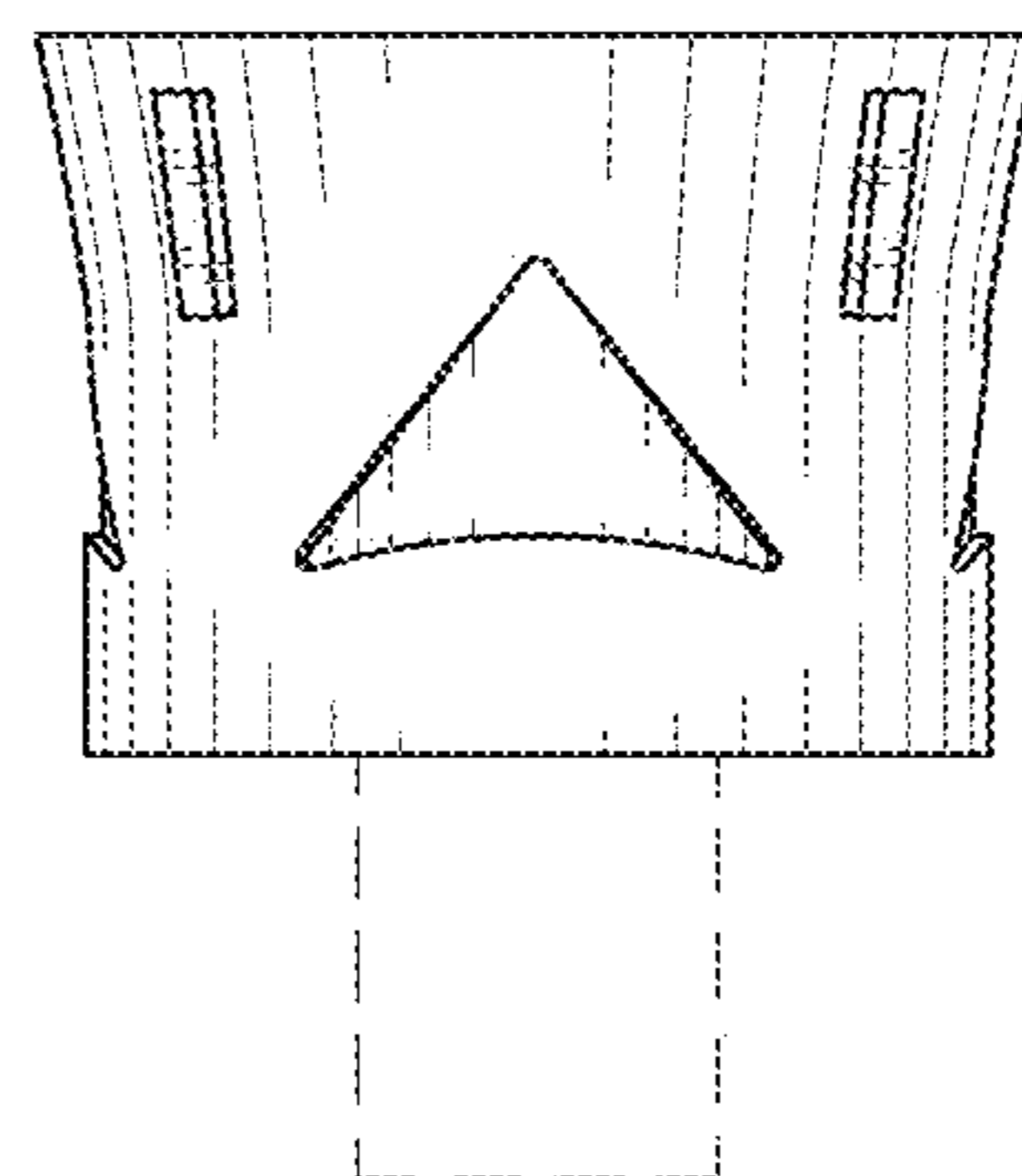


FIG. 6

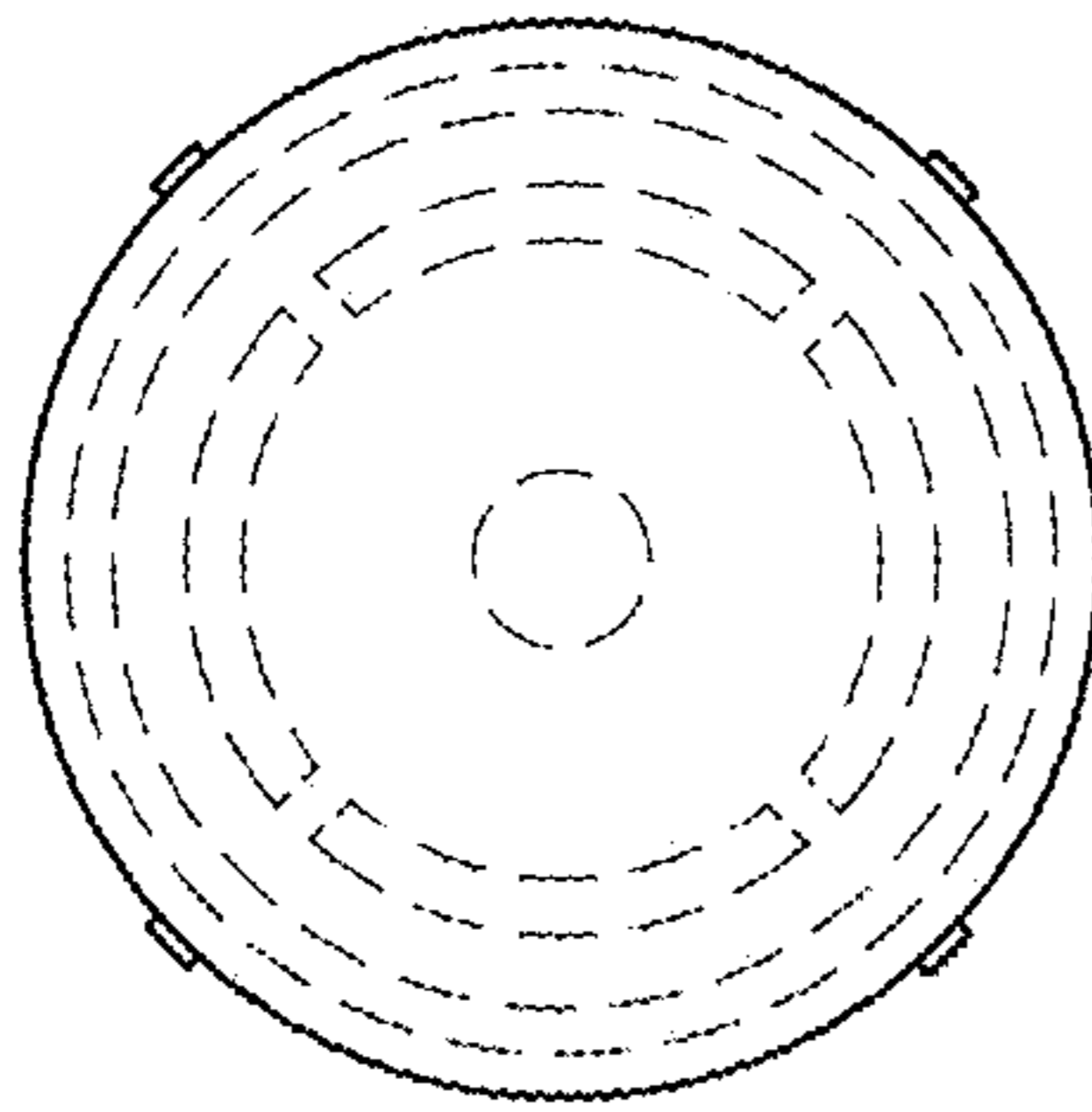


FIG. 7

