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(12) **United States Design Patent** (10) **Patent No.:** **US D948,715 S**
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(54) **INJECTION NEEDLE SHIELD PULLER**

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(52) **U.S. Cl.**
USPC **D24/130**

(58) **Field of Classification Search**
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604/184, 227
CPC .. A61M 5/3204; A61M 5/2033; A61M 5/326;
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

4,955,865	A *	9/1990	Steiner	.....	A61M 5/3205 604/263
5,183,469	A *	2/1993	Capaccio	.....	A61M 5/3213 206/365
7,850,661	B2 *	12/2010	Chevallier	.....	A61M 5/31511 604/110
9,233,213	B2	1/2016	Olson et al.		
9,339,610	B2	5/2016	Julian et al.		
9,821,118	B2 *	11/2017	Adlon	.....	A61M 5/2066
9,844,629	B2 *	12/2017	Cronenberg	.....	A61M 5/50

9,907,911	B2 *	3/2018	Constantineau	.....	A61M 5/00
10,201,692	B2 *	2/2019	Chang	.....	A61M 5/3294
10,335,553	B2 *	7/2019	Bendek	.....	A61M 15/0001
10,391,261	B1	8/2019	Glammeier		
10,780,232	B2 *	9/2020	Jugl	.....	A61M 5/3204
10,835,690	B2 *	11/2020	Xiang	.....	A61M 5/46
11,103,651	B2 *	8/2021	Sanders	.....	A61M 5/3204
11,110,230	B2 *	9/2021	Maxfield	.....	A61M 5/3204
11,179,518	B2 *	11/2021	Gertsenchtein	.....	A61M 5/1785
2014/0343503	A1	11/2014	Holmqvist		
2016/0106929	A1	4/2016	Fournier et al.		
2016/0175539	A1	6/2016	Riedel et al.		
2019/0117902	A1	4/2019	Hodgson		

(Continued)

FOREIGN PATENT DOCUMENTS

EP	2231234	A1	9/2010
EP	2361648	A1	8/2011

(Continued)

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(57) **CLAIM**

The ornamental design for an injection needle shield puller, as shown and described.

DESCRIPTION

FIG. 1 is a top, front and right side perspective view of an injection needle shield puller, in accordance with our new design;

FIG. 2 is a front elevational view thereof, a rear elevational view being identical thereto;

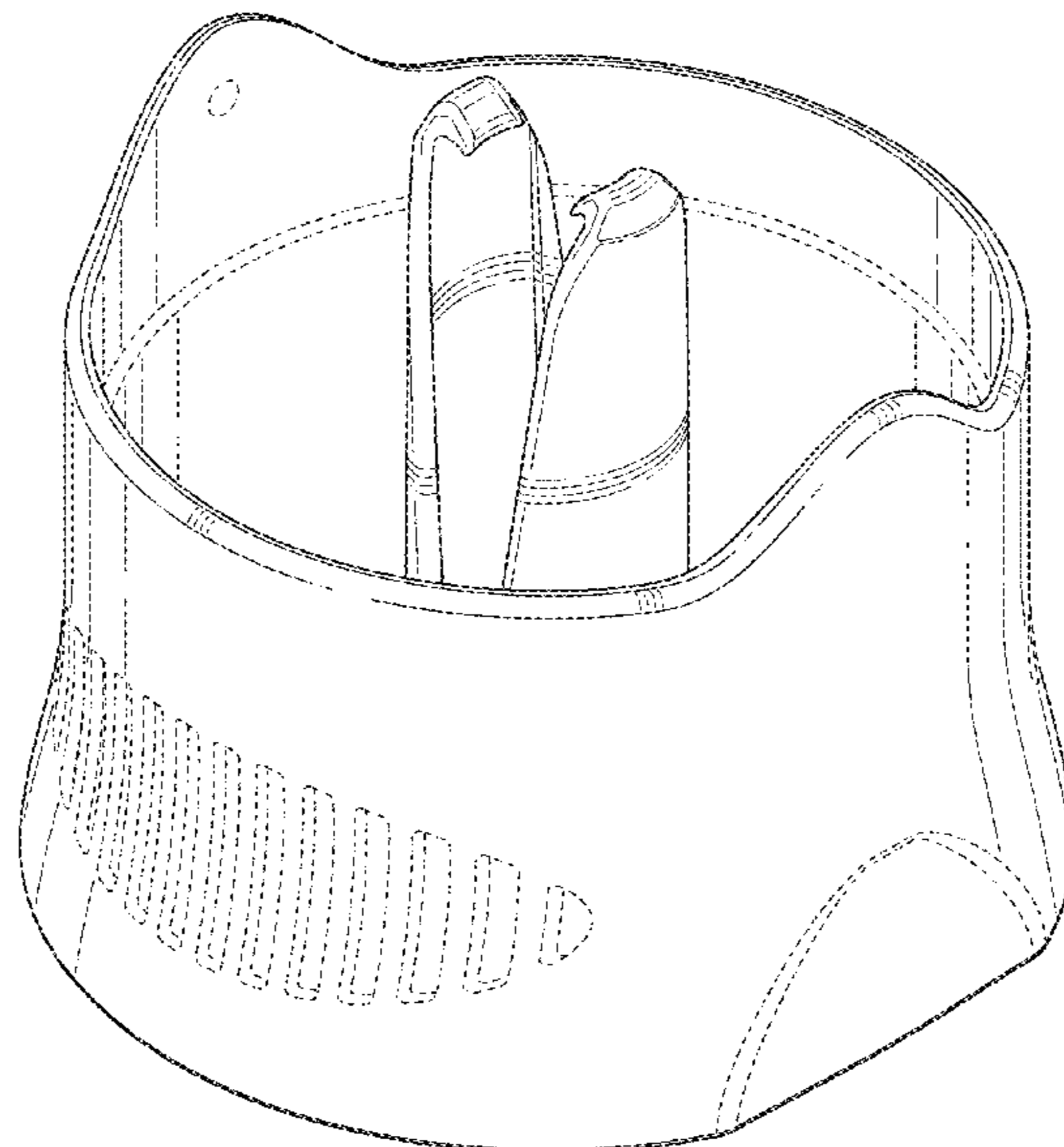
FIG. 3 is a right side elevational view thereof, a left side elevational view being identical thereto;

FIG. 4 is a top plan view thereof; and,

FIG. 5 is a bottom plan view thereof.

The broken lines in the figures are for the purpose of showing environmental structure and form no part of the claimed design.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2019/0151565 A1 5/2019 Groetzbach et al.
 2019/0201634 A1 7/2019 Newton et al.
 2019/0209787 A1 7/2019 Bendek
 2019/0336701 A1 11/2019 Moore
 2019/0351149 A1 11/2019 Ward et al.
 2019/0374727 A1 12/2019 Dugand et al.
 2020/0038598 A1 2/2020 Chu et al.
 2020/0046910 A1 2/2020 Maxfield et al.
 2020/0222638 A1 7/2020 Lafever et al.

FOREIGN PATENT DOCUMENTS

EP 2729203 A1 5/2014
 EP 2873431 A1 5/2015
 EP 3226944 A1 10/2017
 EP 3409312 A1 12/2018
 EP 3458131 A1 3/2019

EP 3552642 A1 10/2019
 EP 3618903 A1 3/2020
 EP 3626291 A1 3/2020
 EP 3659652 A1 6/2020
 JP 2017-086630 A 5/2017
 WO 2012013140 A1 2/2012
 WO 2015007857 A1 1/2015
 WO 2015044561 A1 4/2015
 WO 2016089864 A1 6/2016
 WO 2017089266 A1 6/2017
 WO 2018018165 A1 2/2018
 WO 2018018167 A1 2/2018
 WO 2018096231 A1 5/2018
 WO 2019074788 A1 4/2019
 WO 2019091626 A1 5/2019
 WO 2019101613 A1 5/2019
 WO 2019123073 A1 6/2019
 WO 2019197381 A1 10/2019
 WO 2020070260 A1 4/2020

* cited by examiner

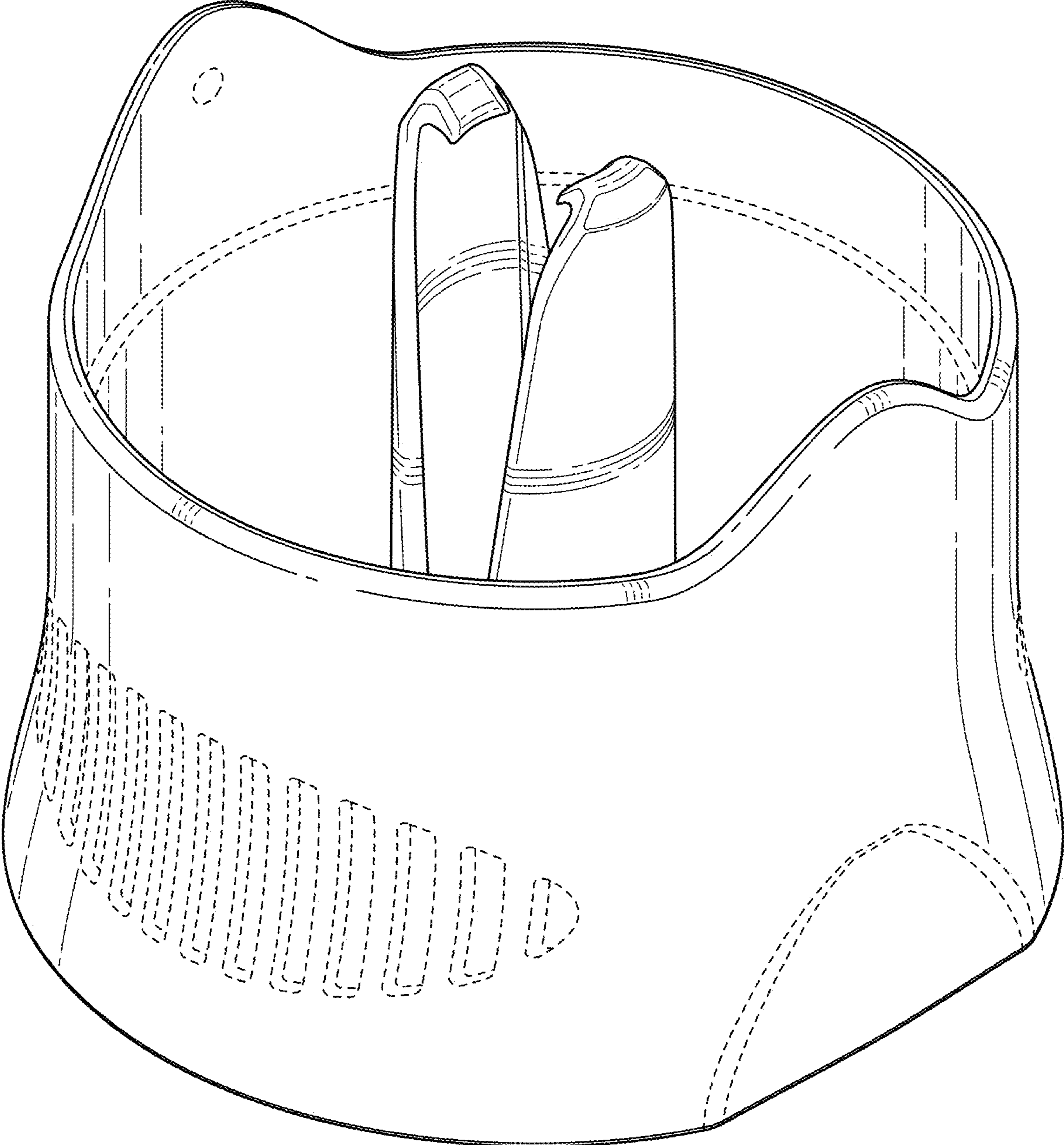


FIG. 1

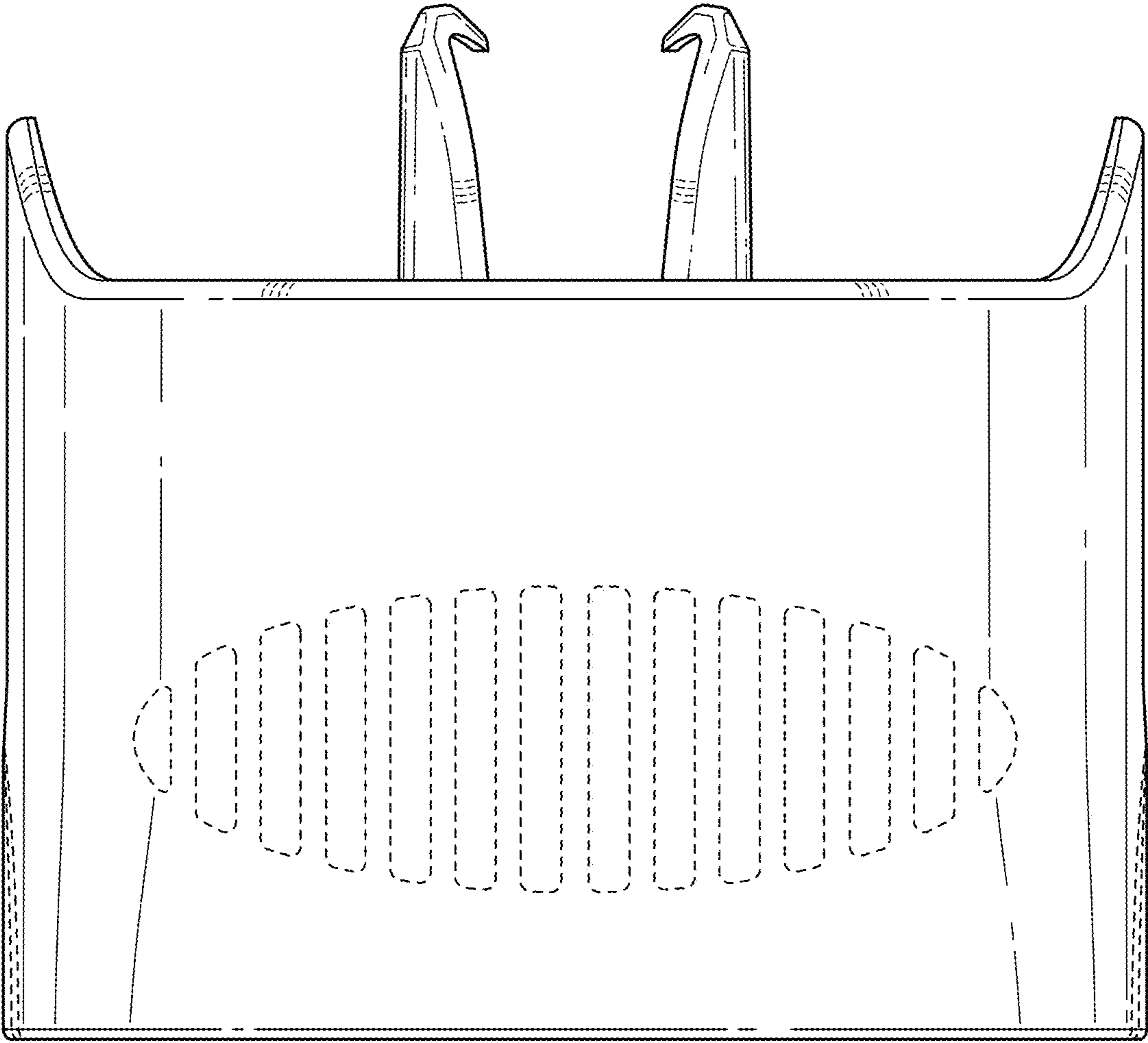


FIG. 2

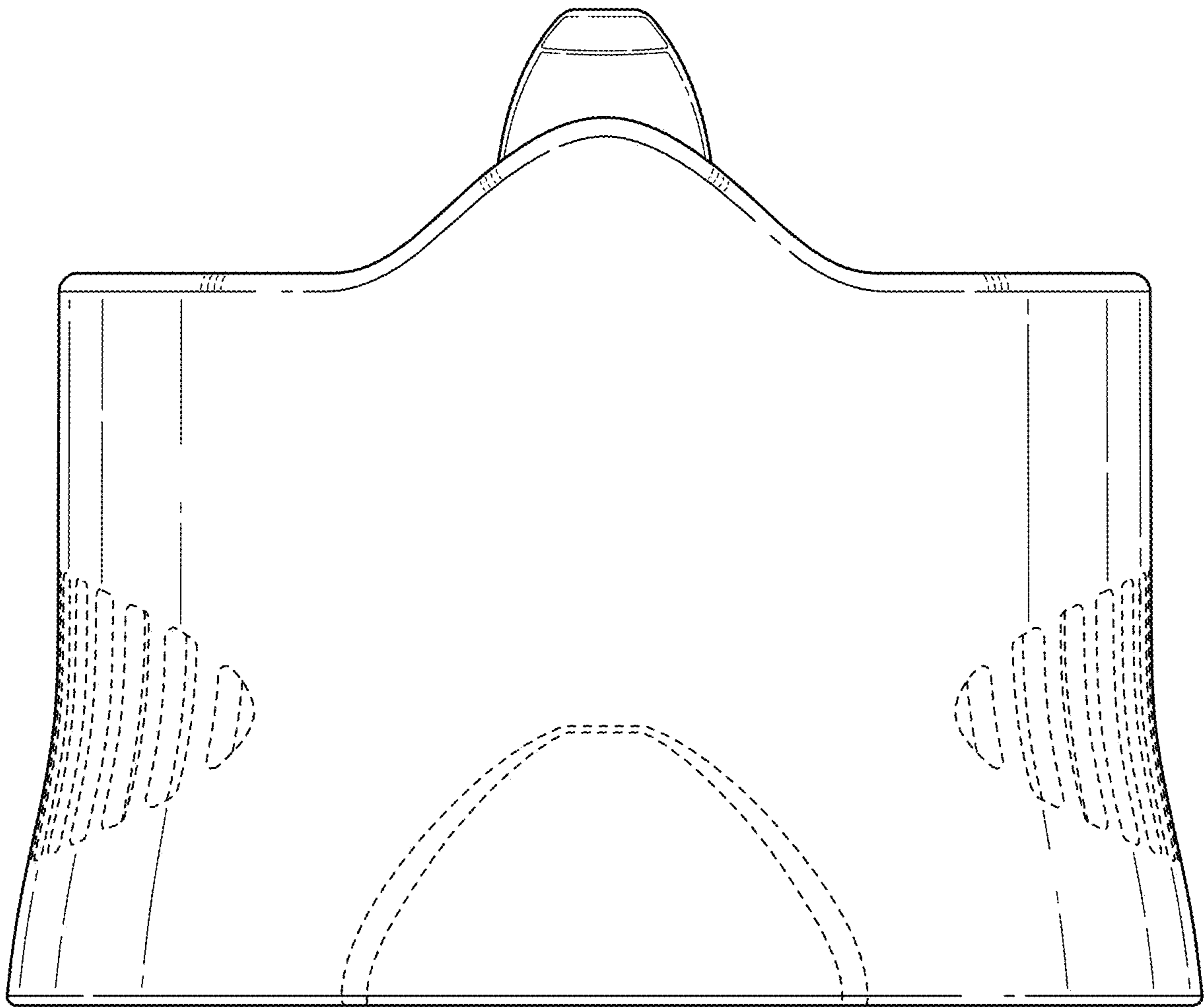


FIG. 3

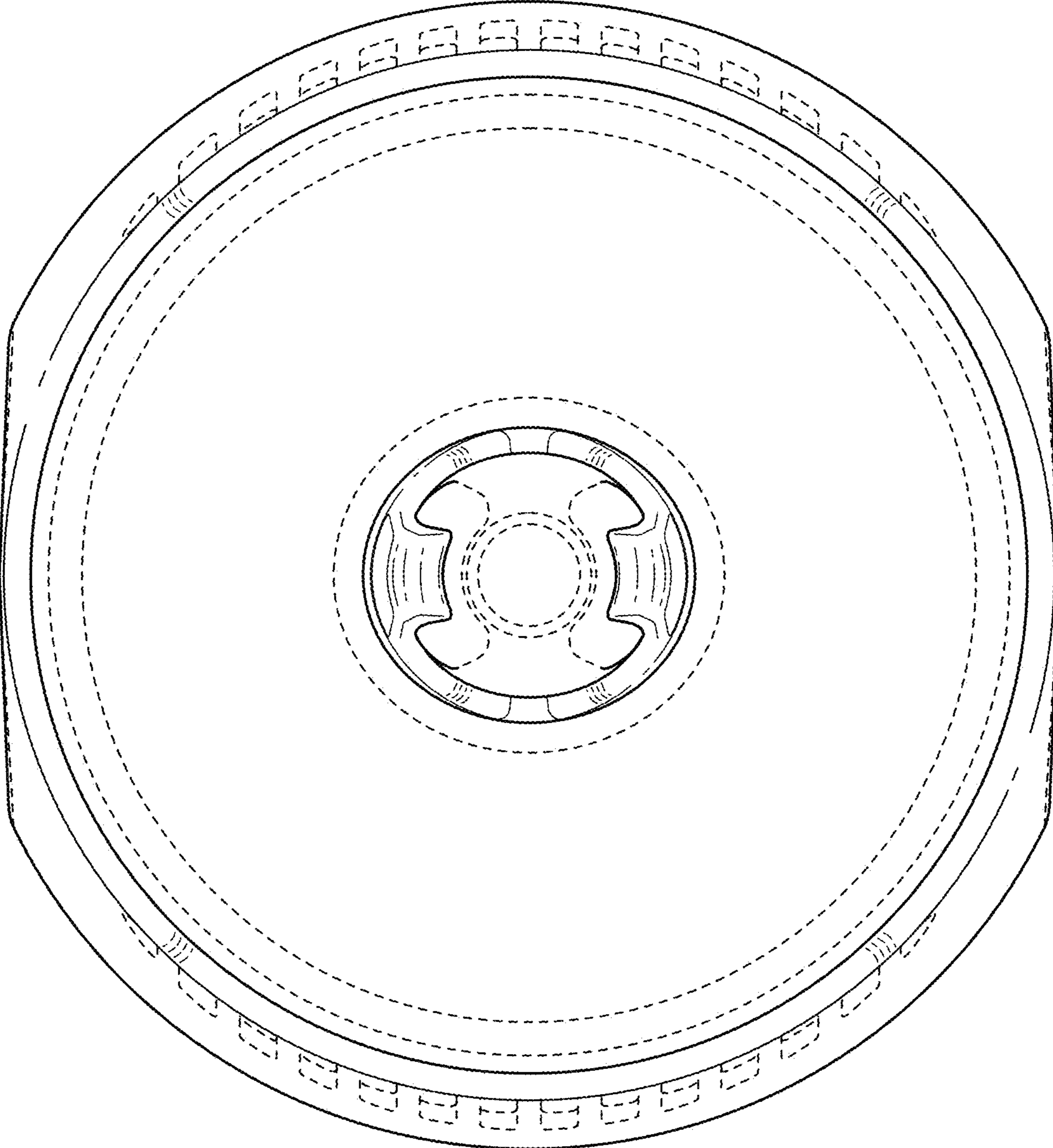


FIG. 4

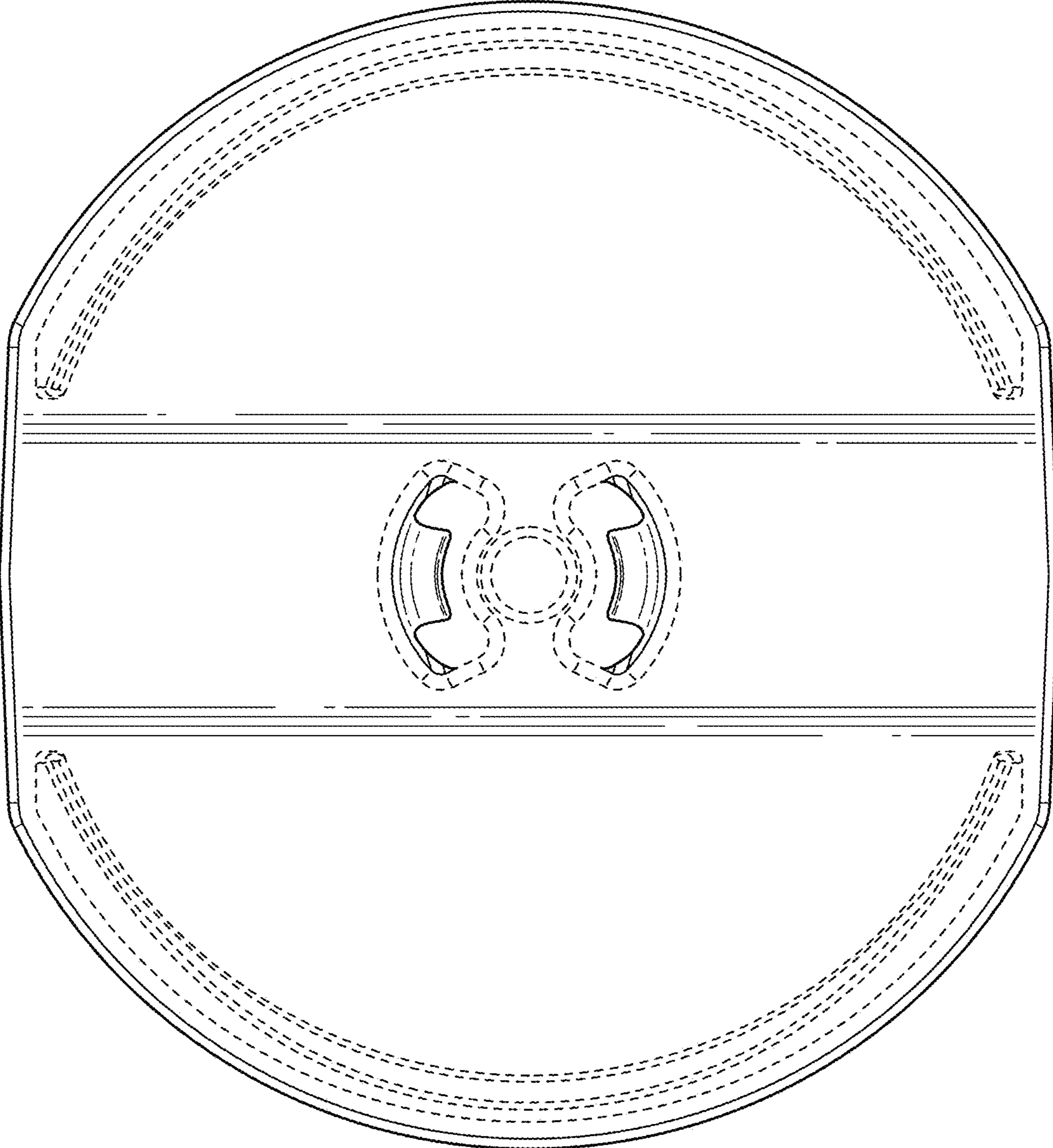


FIG. 5