



US00D948715S

(12) **United States Design Patent**
Hezkiahu et al.

(10) **Patent No.:** **US D948,715 S**
(45) **Date of Patent:** **** Apr. 12, 2022**

- (54) **INJECTION NEEDLE SHIELD PULLER**
- (71) Applicant: **West Pharmaceutical Services, Inc.**,
Exton, PA (US)
- (72) Inventors: **Ran Hezkiahu**, Herzliya (IL); **Kevin Hopper**, Athens, TX (US)
- (73) Assignee: **West Pharmaceutical Services, Inc.**,
Exton, PA (US)
- (**) Term: **15 Years**

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	Gertschtein	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)

(21) Appl. No.: **29/757,505**

FOREIGN PATENT DOCUMENTS

- (22) Filed: **Nov. 6, 2020**
- (51) **LOC (13) Cl.** **24-02**
- (52) **U.S. Cl.**
USPC **D24/130**
- (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 5/3204; A61M 5/2033; A61M 5/326;
A61M 5/178; A61M 3/00; A61M 5/20;
A61M 5/31; A61M 5/3146; A61M
5/3129; A61M 5/3148; A61M 5/315
See application file for complete search history.

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

(Continued)

Primary Examiner — David G Muller

(74) *Attorney, Agent, or Firm* — BakerHostetler

(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.

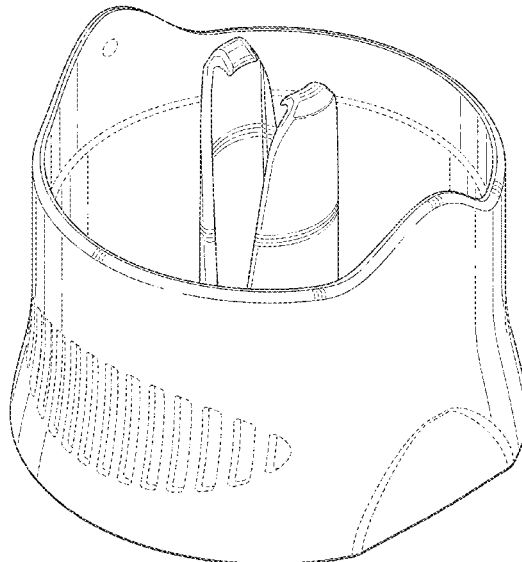
The broken lines in the figures are for the purpose of showing environmental structure and form no part of the claimed design.

(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

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

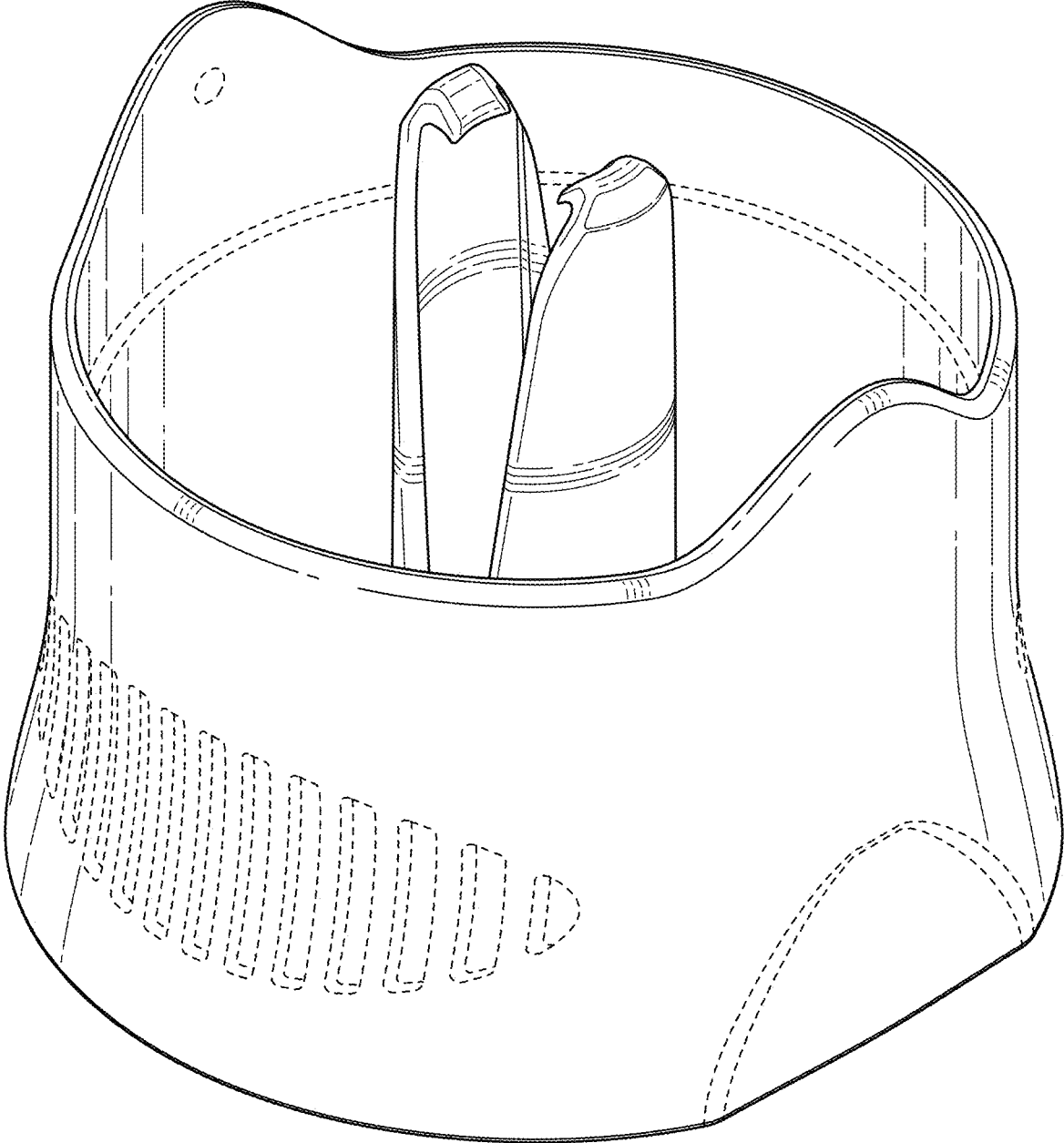


FIG. 1

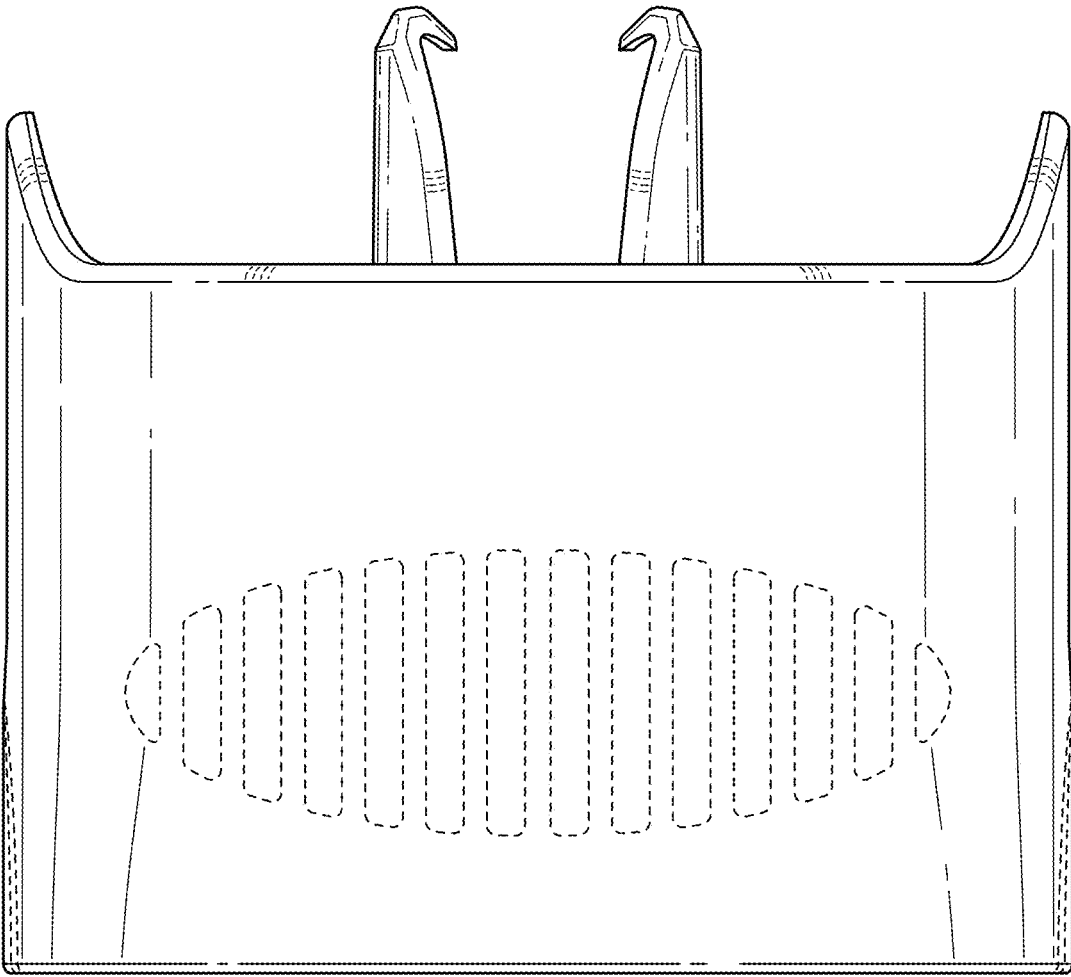


FIG. 2

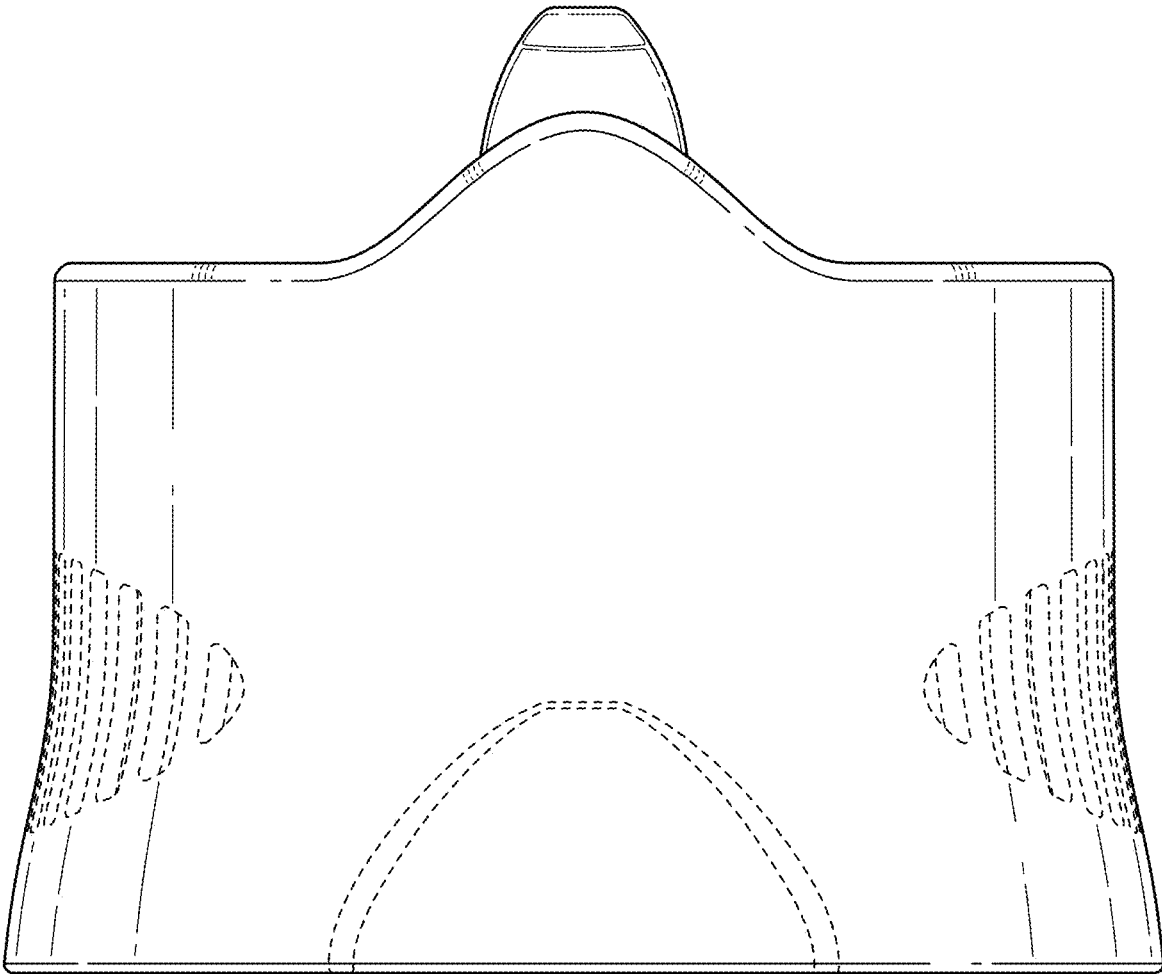


FIG. 3

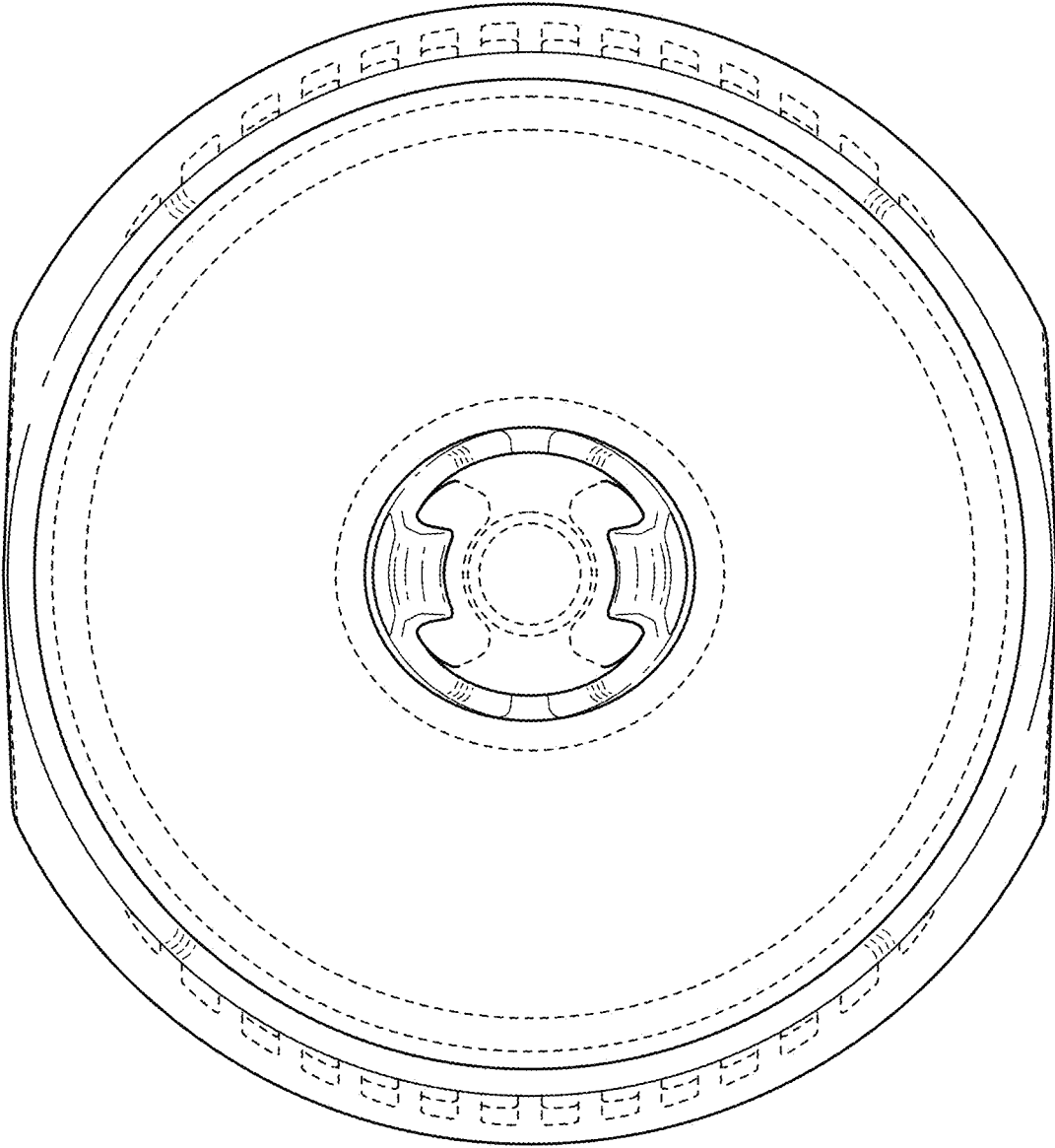


FIG. 4

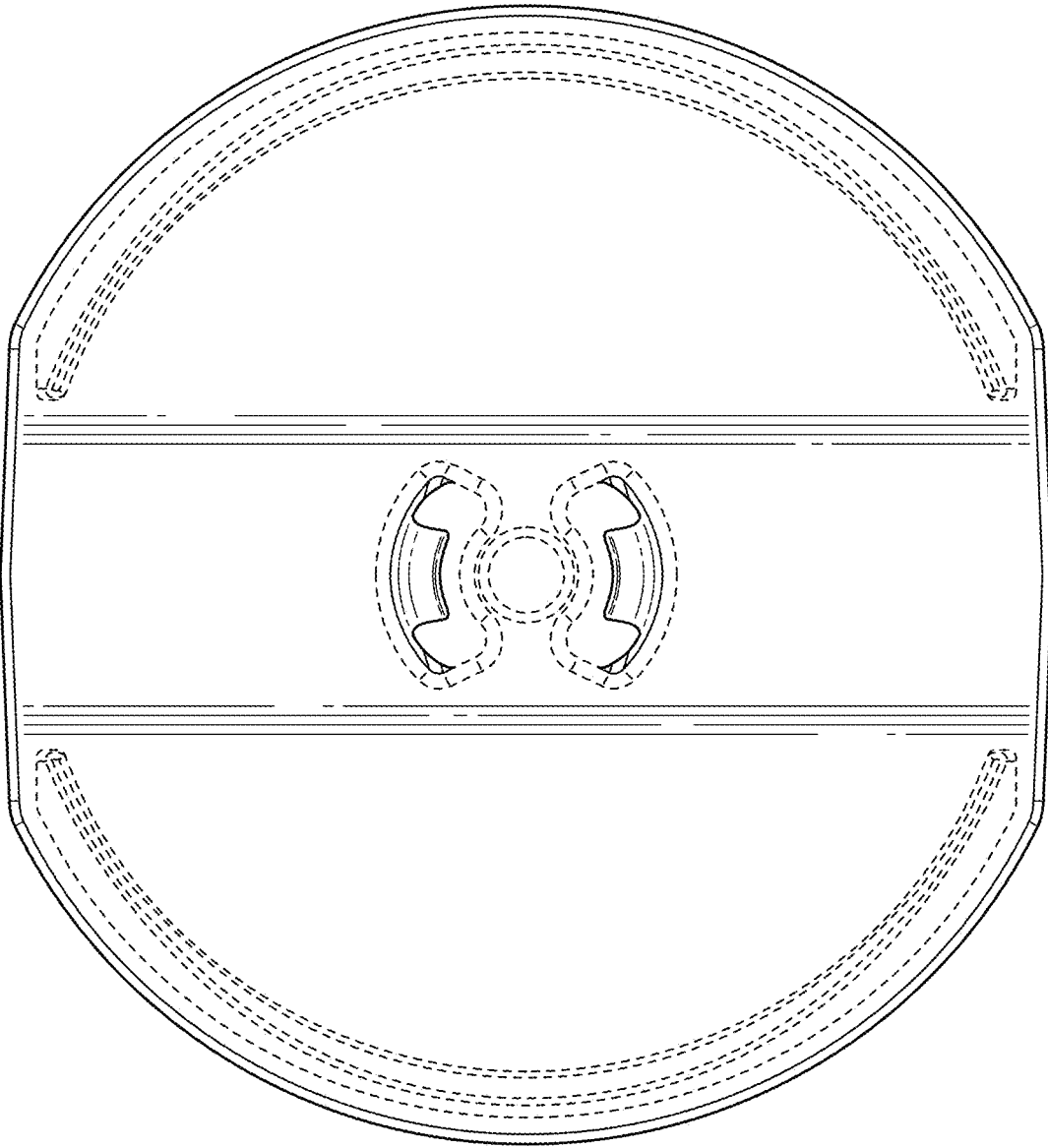


FIG. 5