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Duggan et al.

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(54) ORTHODONTIC BRACKET WITH DOOR

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(**) Term: 15 Years

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- (52) U.S. Cl.
USPC D24/180
- (58) Field of Classification Search
USPC D24/176, 180–181
CPC A61C 7/30; A61C 7/12; A61C 7/14; A61C
7/143; A61C 7/145; A61C 7/282; A61C
7/16; A61C 7/28; A61C 7/285
See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

6,325,622	B1	12/2001	Kelly et al.	
6,485,299	B1	11/2002	Wildman	
6,659,767	B2	12/2003	Abels et al.	
6,726,474	B2	4/2004	Spencer	
7,104,791	B2 *	9/2006	Hanson	A61C 7/285 433/10
7,234,935	B2 *	6/2007	Abels	A61C 7/285 433/10
7,611,352	B2 *	11/2009	Abels	A61C 7/285 D24/180
D687,554	S *	8/2013	Kooiman	D24/180
9,554,875	B2	1/2017	Gualano	

(Continued)

OTHER PUBLICATIONS

[No Author Listed], Freewire Bandages for Roth Max Blue. Reference code: 60.11.008. Morelli. 2022, 3 pages. URL:https://www.morelli.com.br/loja/ligaduras-freewire-para-roth-max-azul--6011008.htm [last accessed Oct. 6, 2022].

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(57) CLAIM

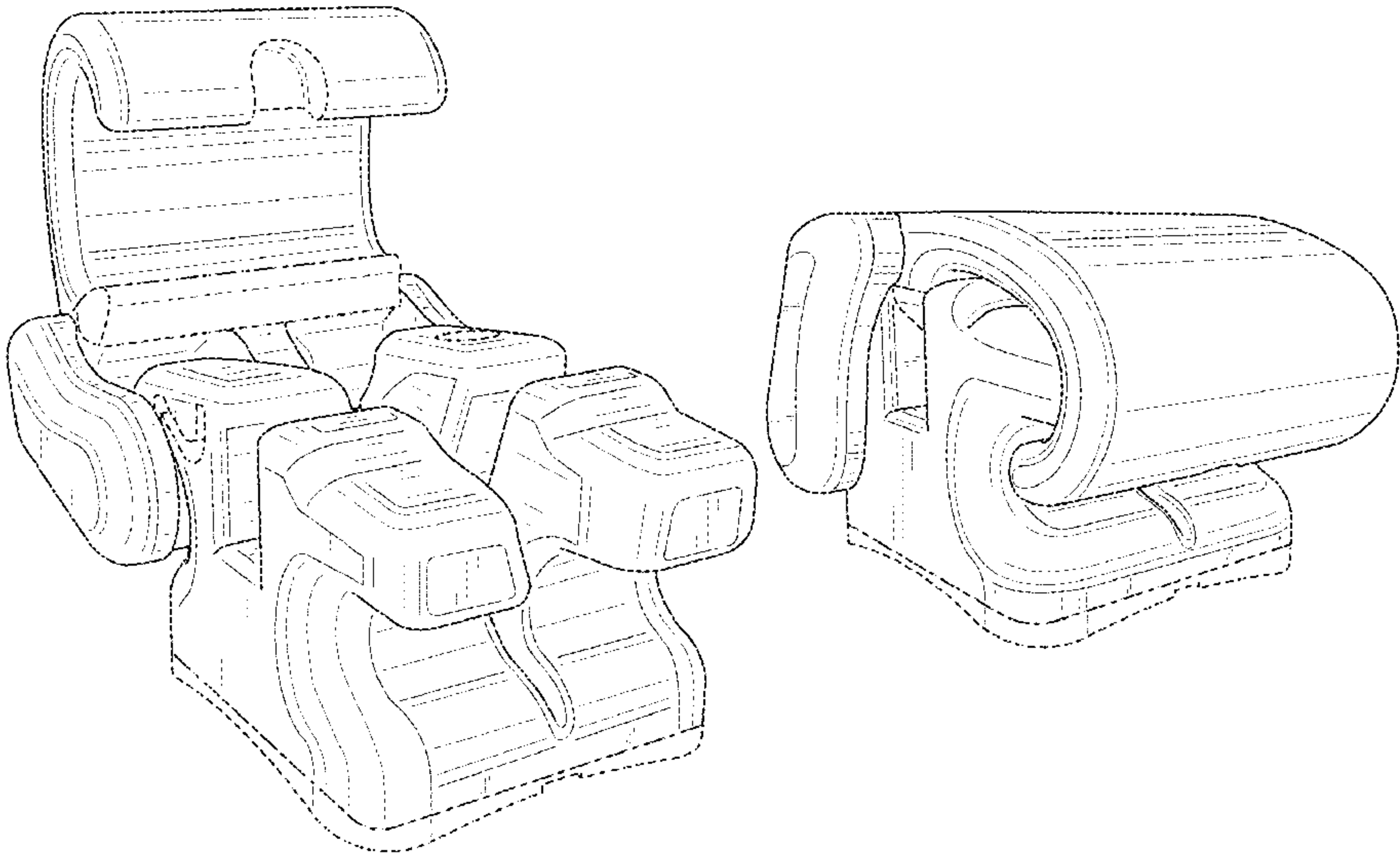
The ornamental design for an orthodontic bracket with door, as shown and described.

DESCRIPTION

FIG. 1 is a front, left perspective view of the orthodontic bracket with door, wherein the door in an open configuration;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a left view thereof;
FIG. 5 is a right view thereof;
FIG. 6 is a top view thereof; and
FIG. 7 is a bottom view thereof;
FIG. 8 is a front, left perspective view of the orthodontic bracket with door, wherein the door in a closed configuration;
FIG. 9 is a front view thereof;
FIG. 10 is a rear view thereof;
FIG. 11 is a left view thereof;
FIG. 12 is a right view thereof;
FIG. 13 is a top view thereof; and,
FIG. 14 is a bottom view thereof.

The evenly spaced broken lines and adjacent unshaded surfaces show portions of the orthodontic bracket with door that form no part of the claimed design. The dash-dot-dash broken lines define the boundaries of the claim and form no part of the claimed design.

1 Claim, 14 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

9,730,770	B2	8/2017	Yick et al.	
11,553,991	B2 *	1/2023	Lai	A61C 7/14
2002/0110775	A1 *	8/2002	Abels	A61C 7/30
				433/10
2002/0187452	A1 *	12/2002	Abels	A61C 7/285
				433/11
2007/0039143	A1	2/2007	Abels et al.	
2008/0241782	A1 *	10/2008	Abels	A61C 7/285
				433/10
2014/0272753	A1 *	9/2014	Sommer	A61C 7/30
				433/11
2016/0038258	A1	2/2016	Sabilla et al.	
2019/0090987	A1 *	3/2019	Hung	A61C 7/28

* cited by examiner

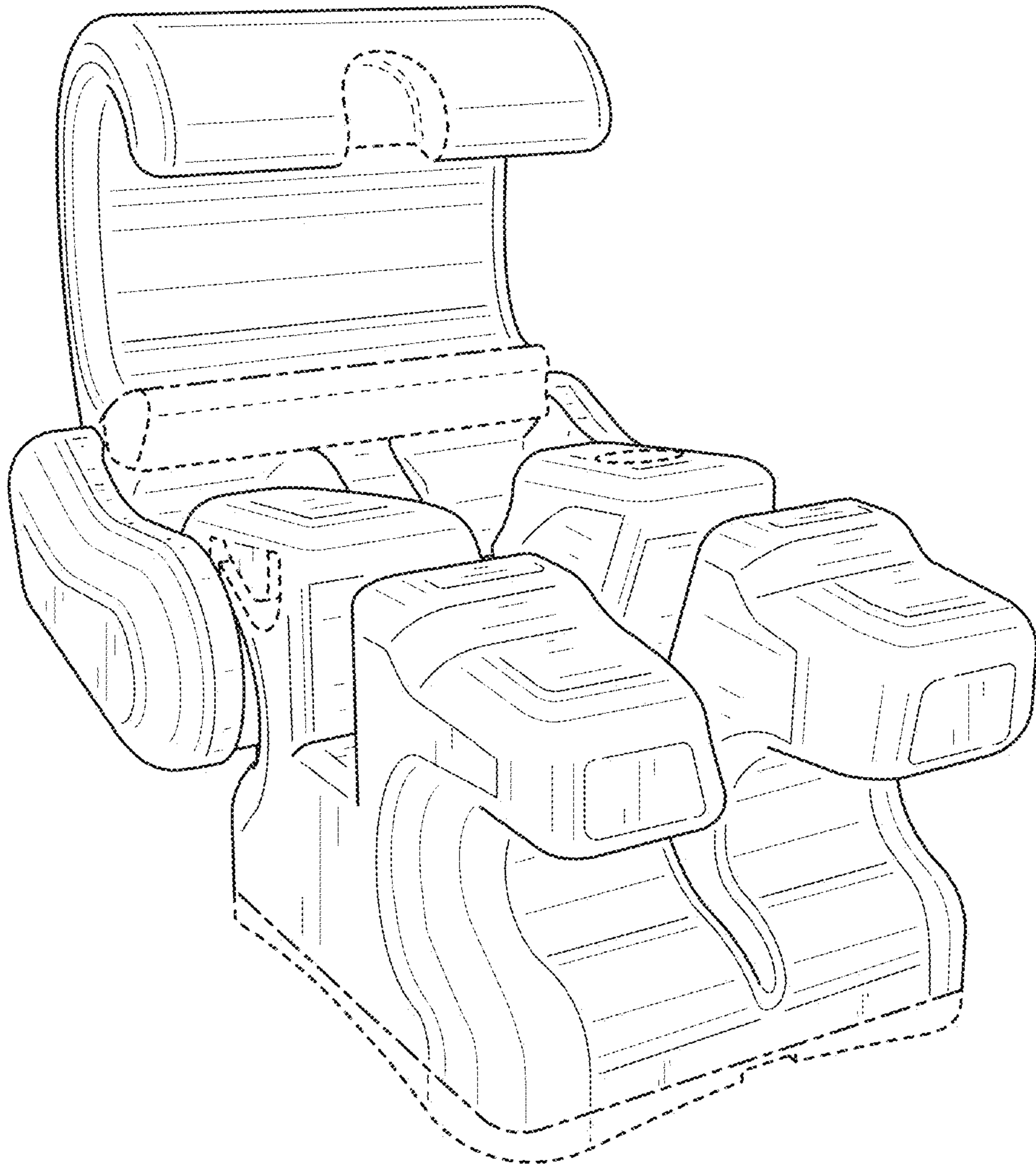


FIG. 1

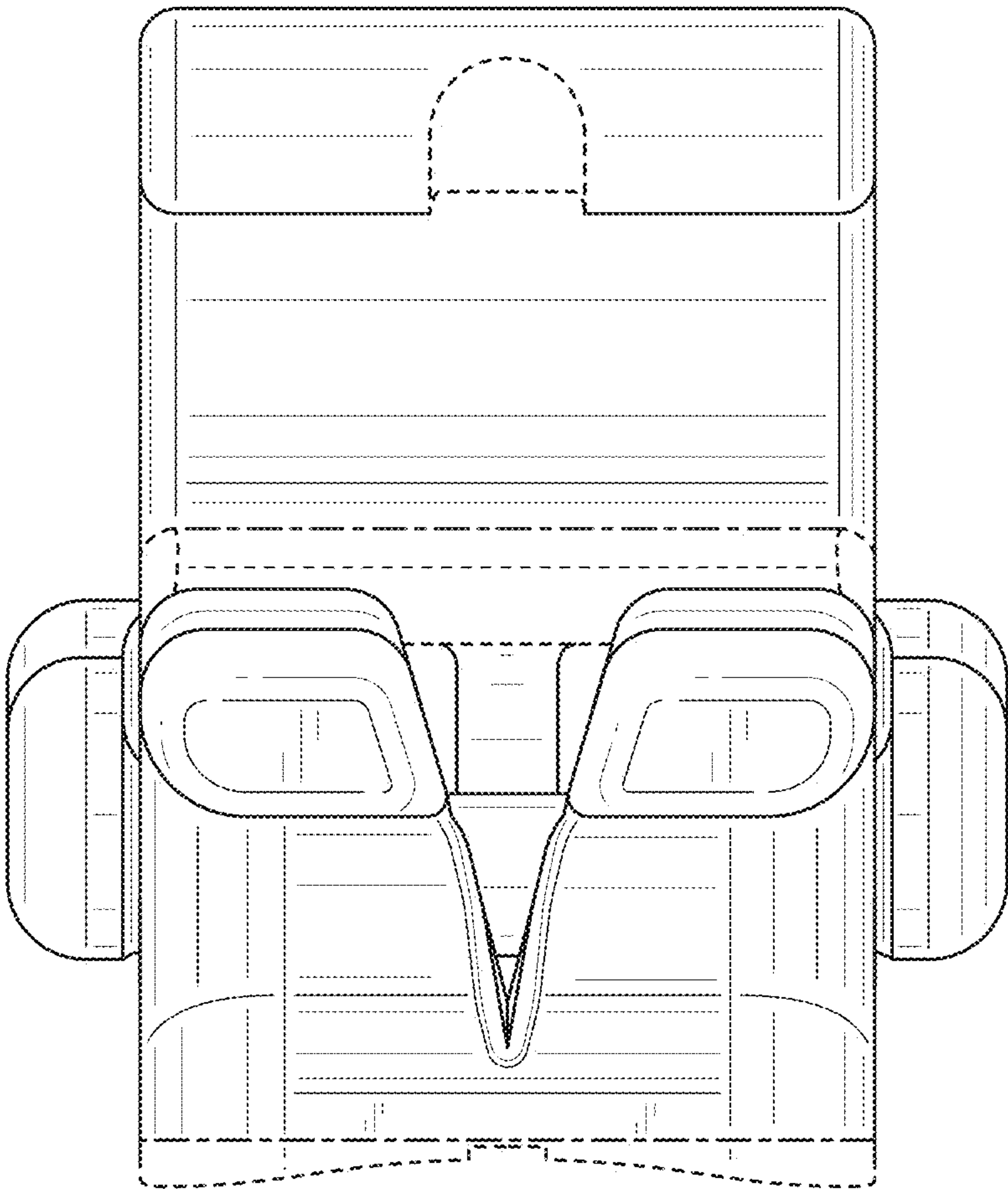


FIG. 2

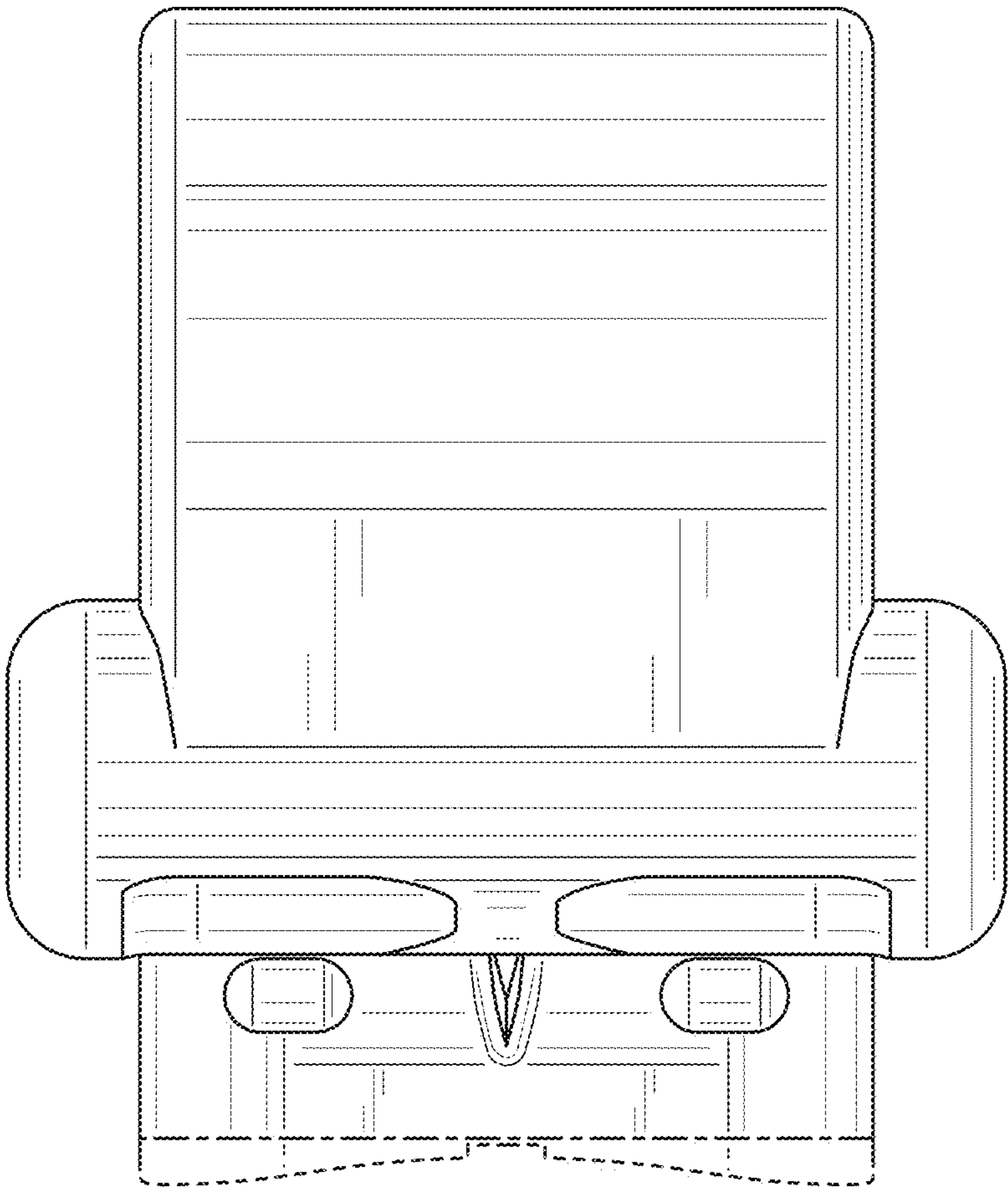


FIG. 3

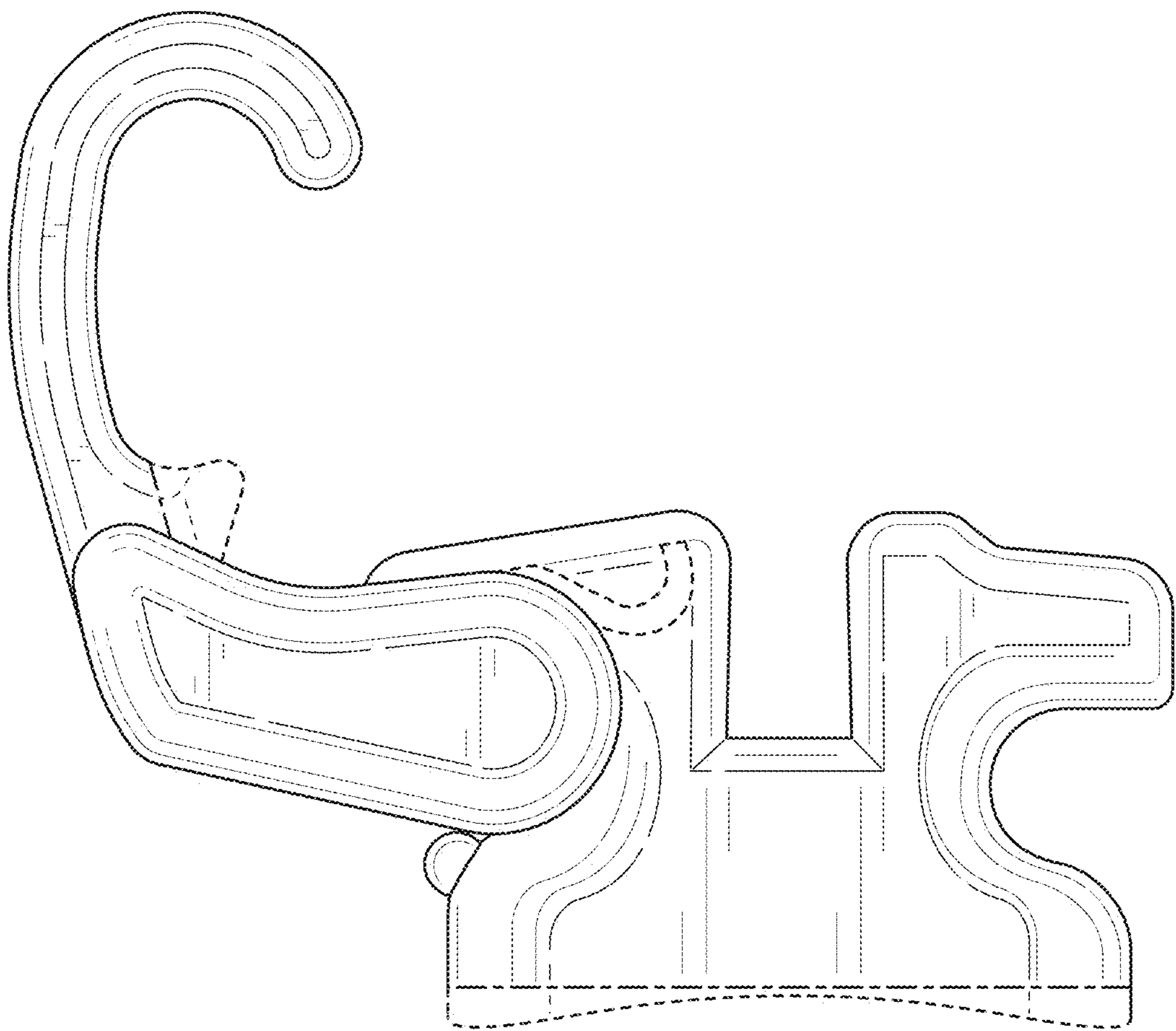


FIG. 4

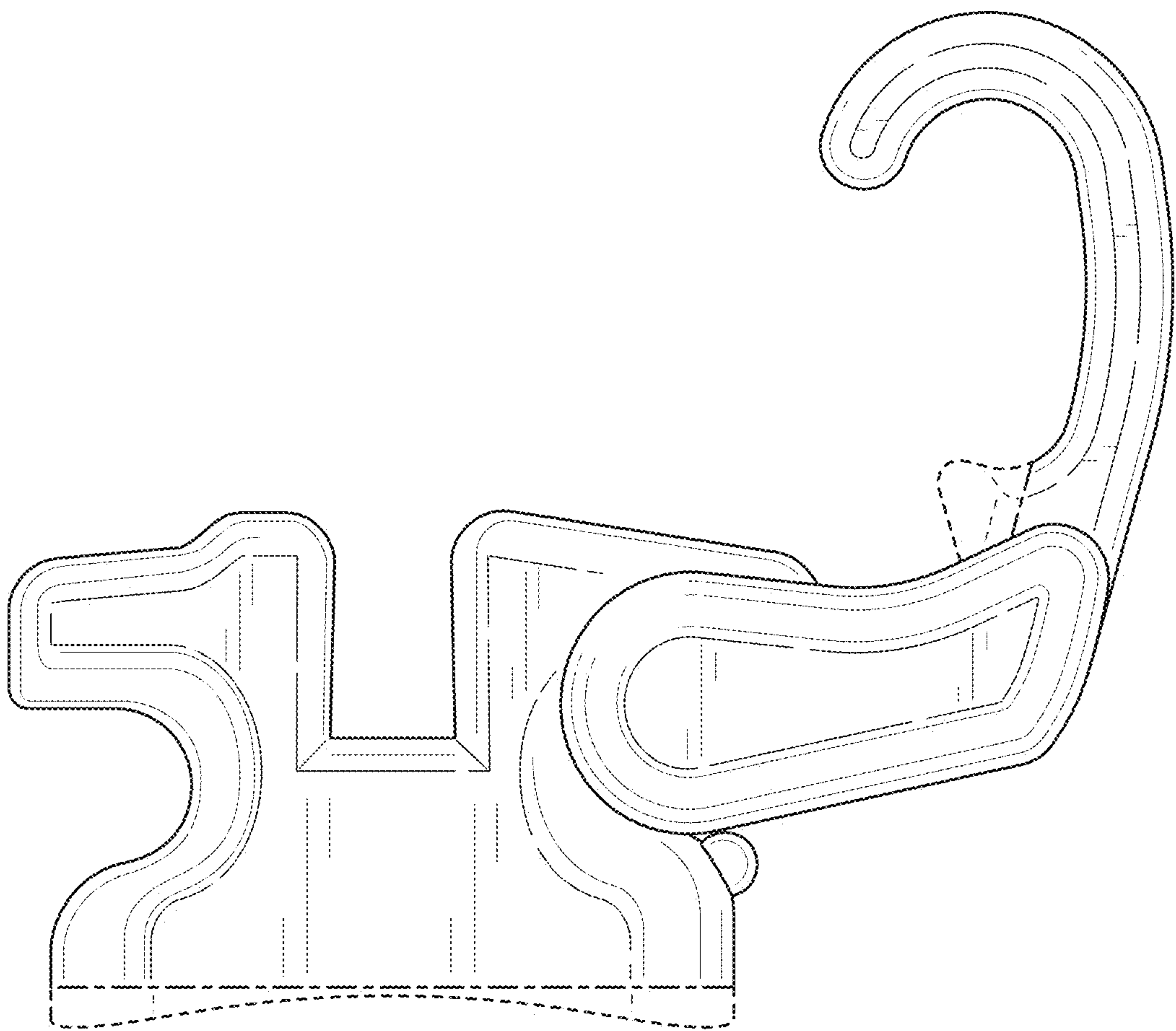


FIG. 5

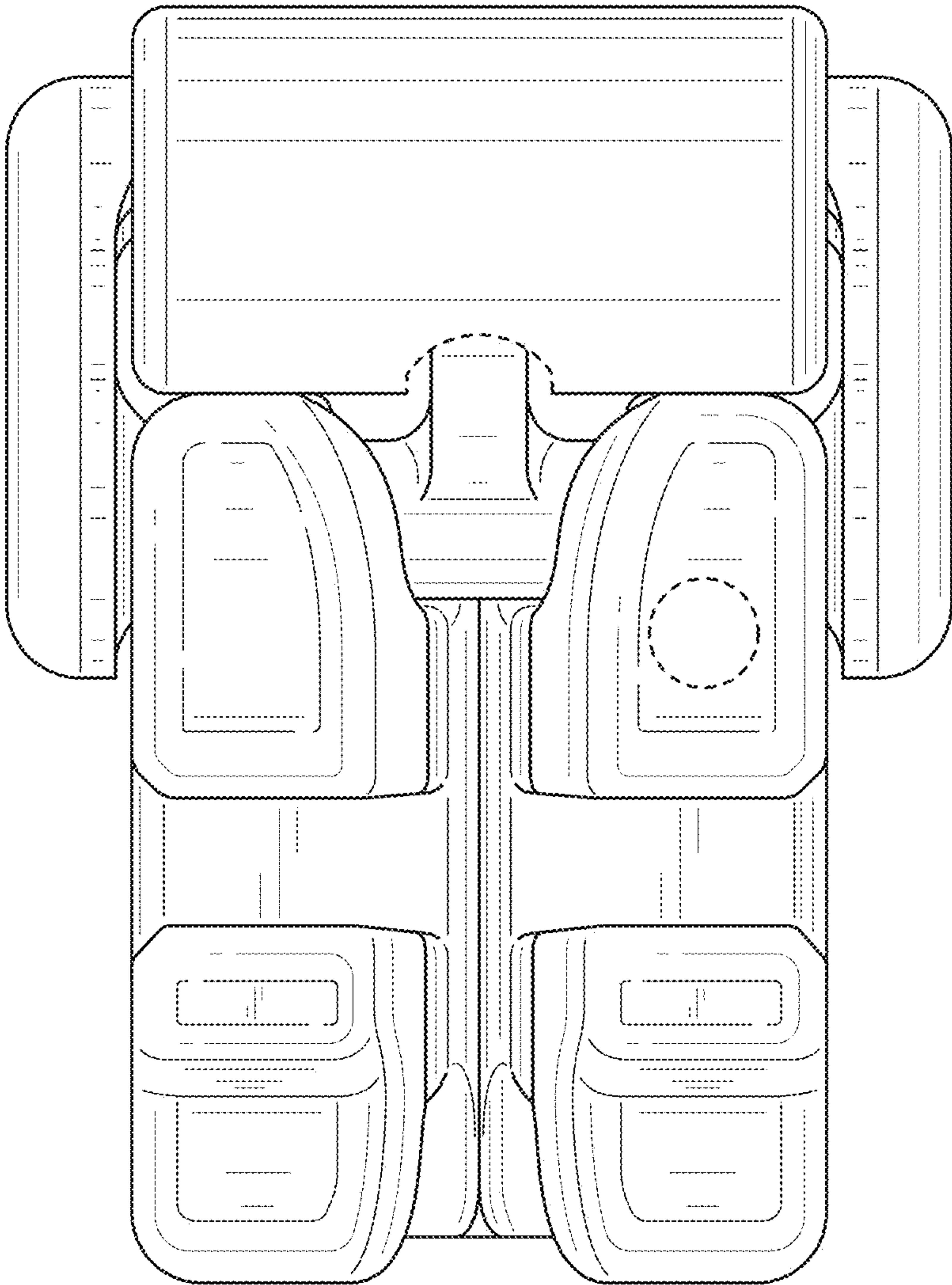


FIG. 6

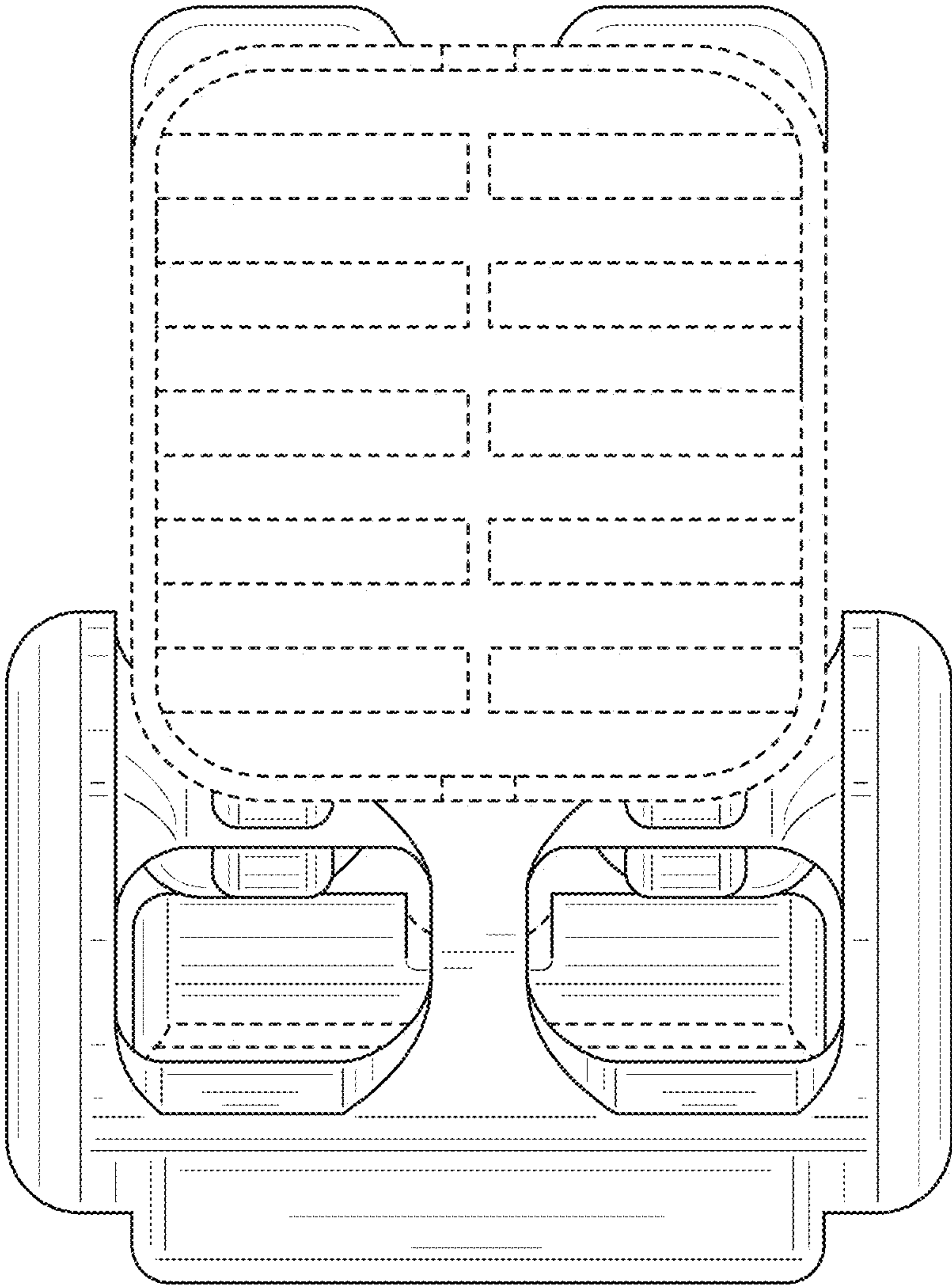


FIG. 7

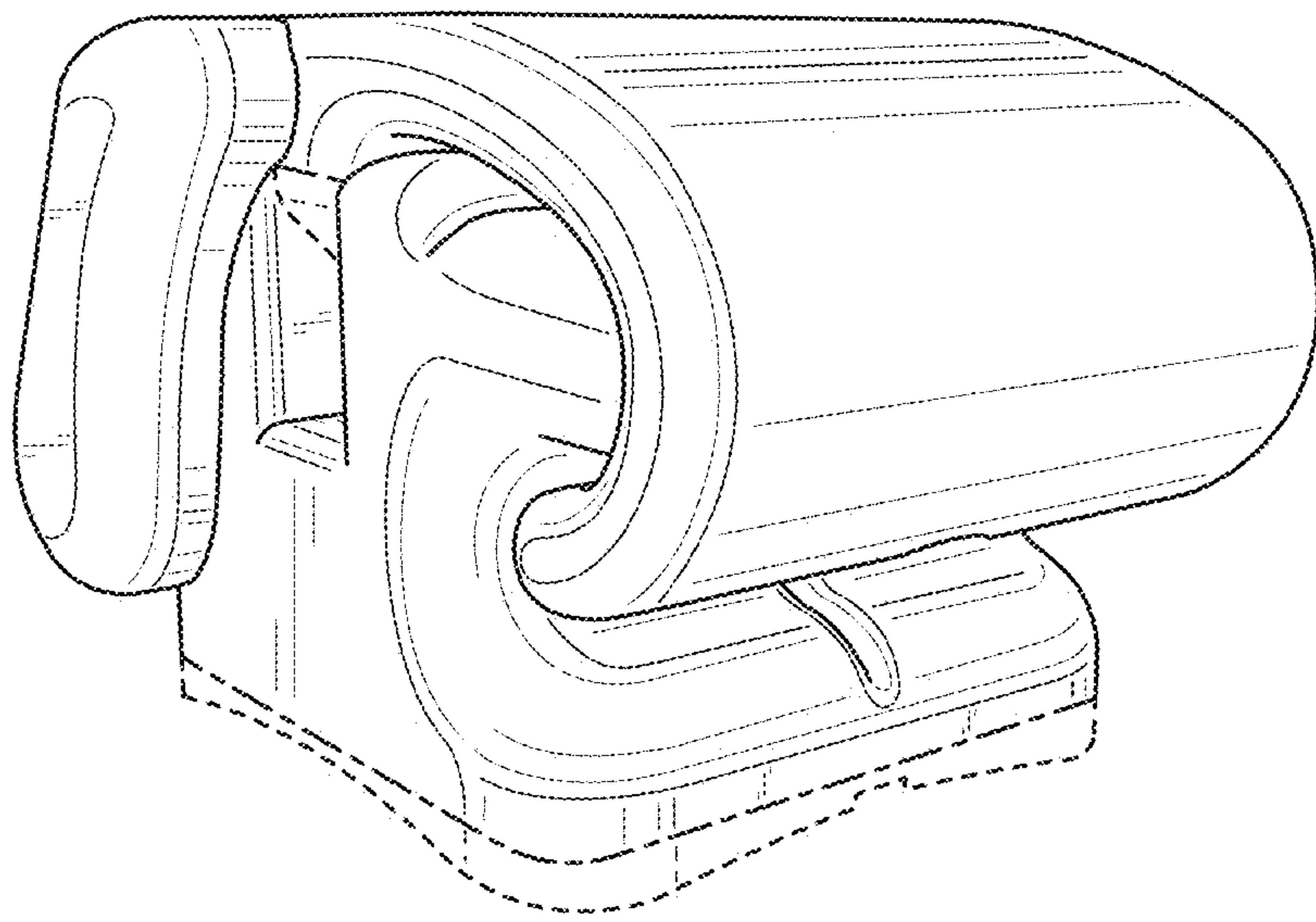


FIG. 8

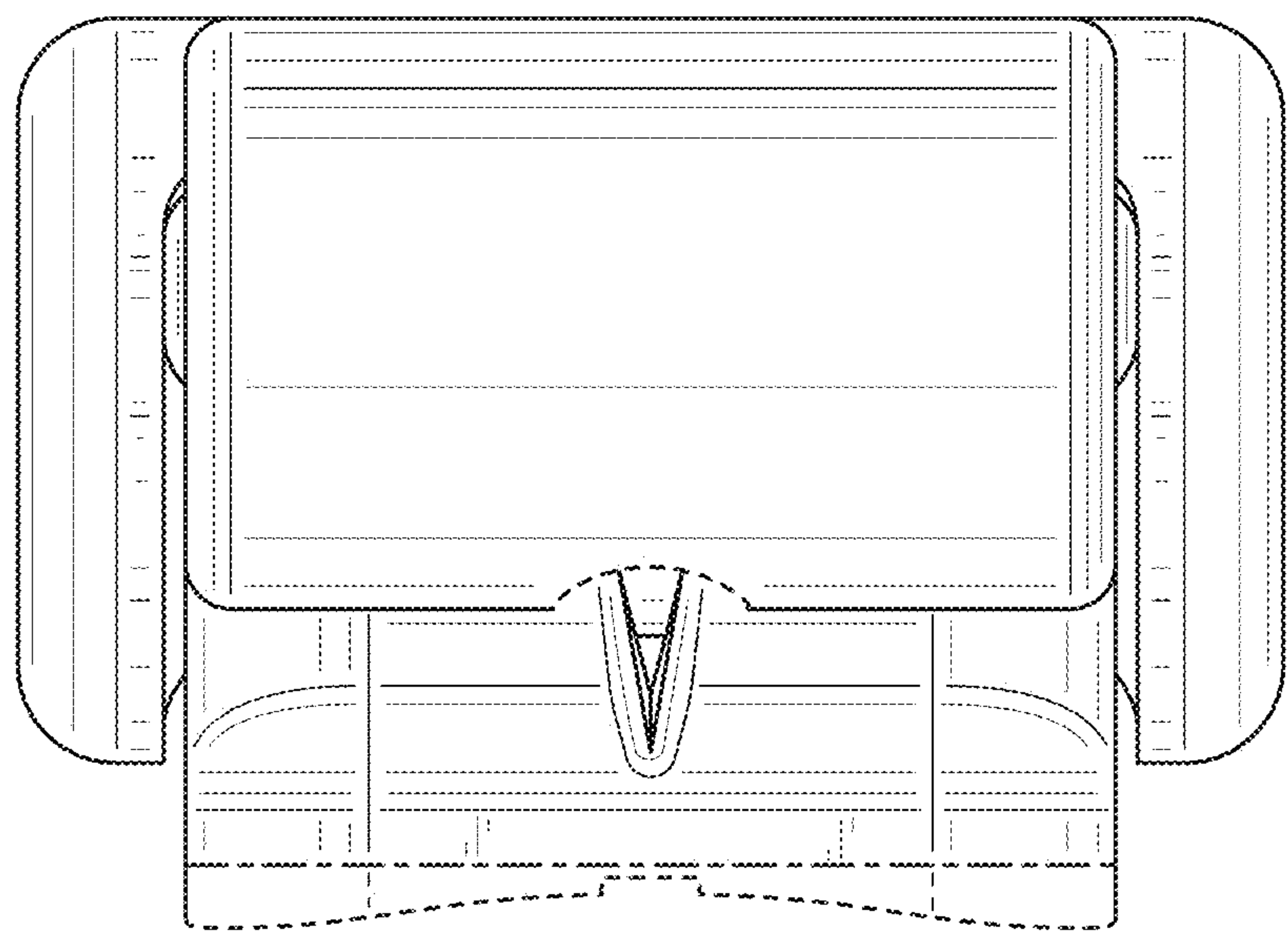


FIG. 9

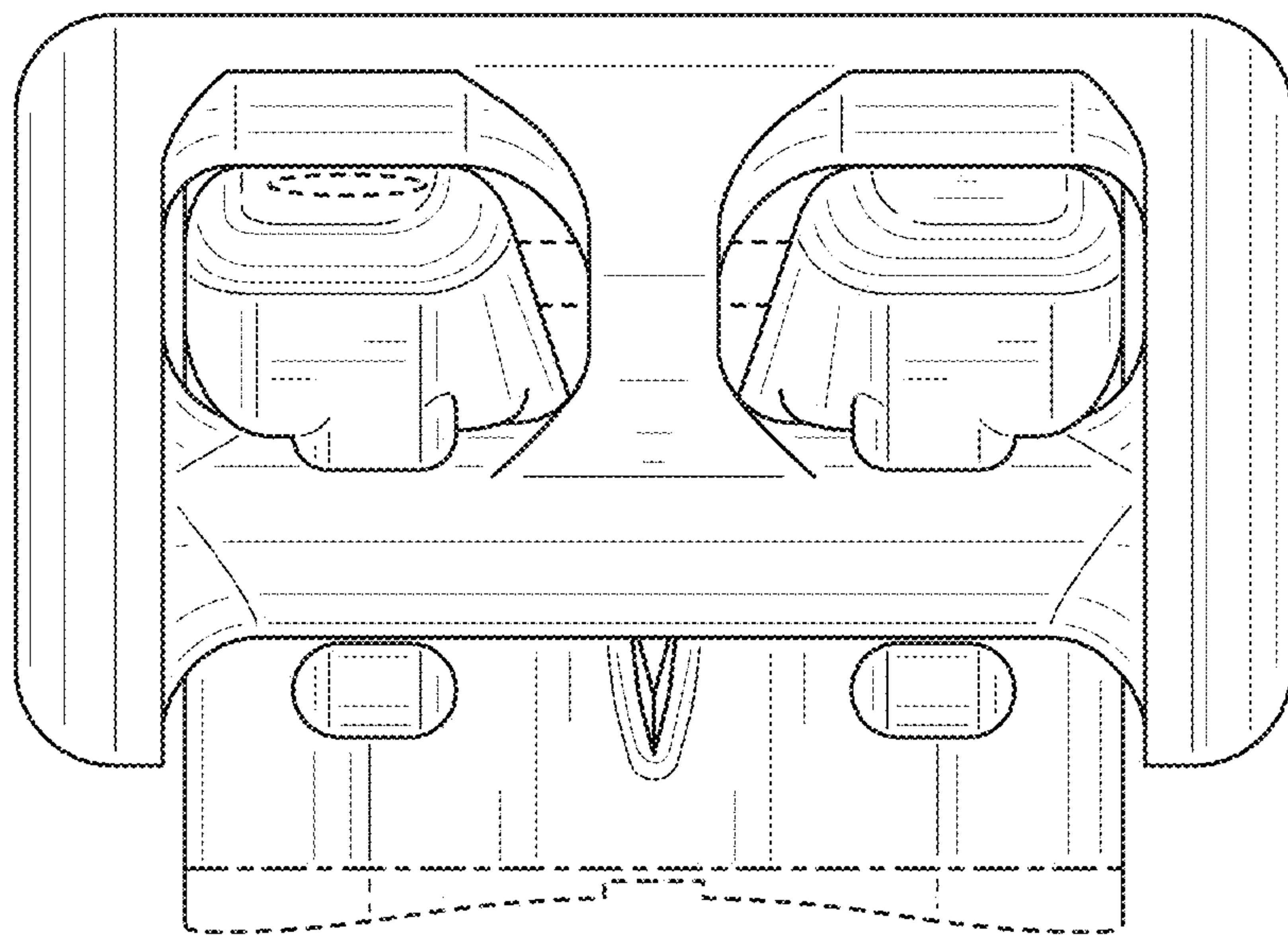


FIG. 10

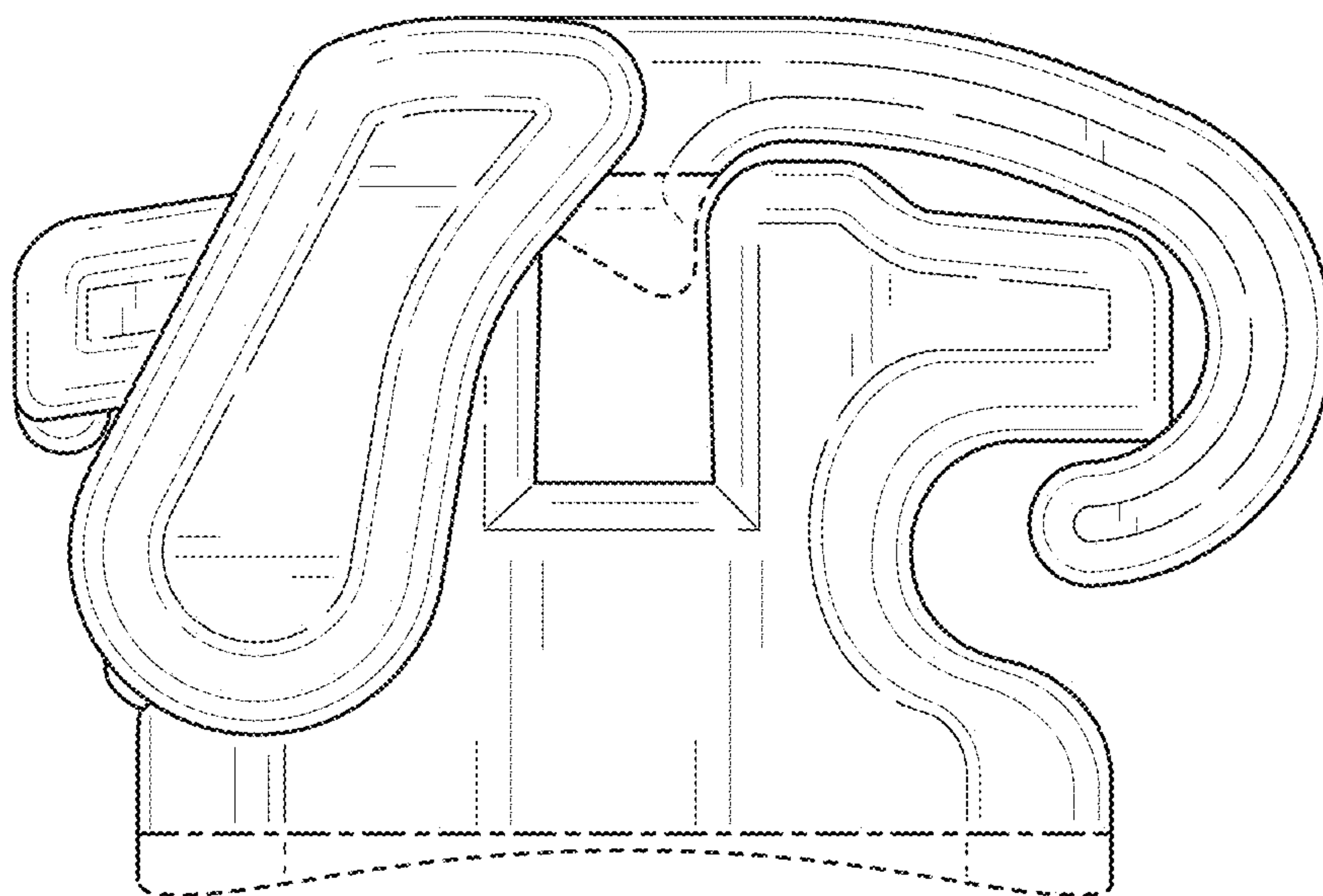


FIG. 11

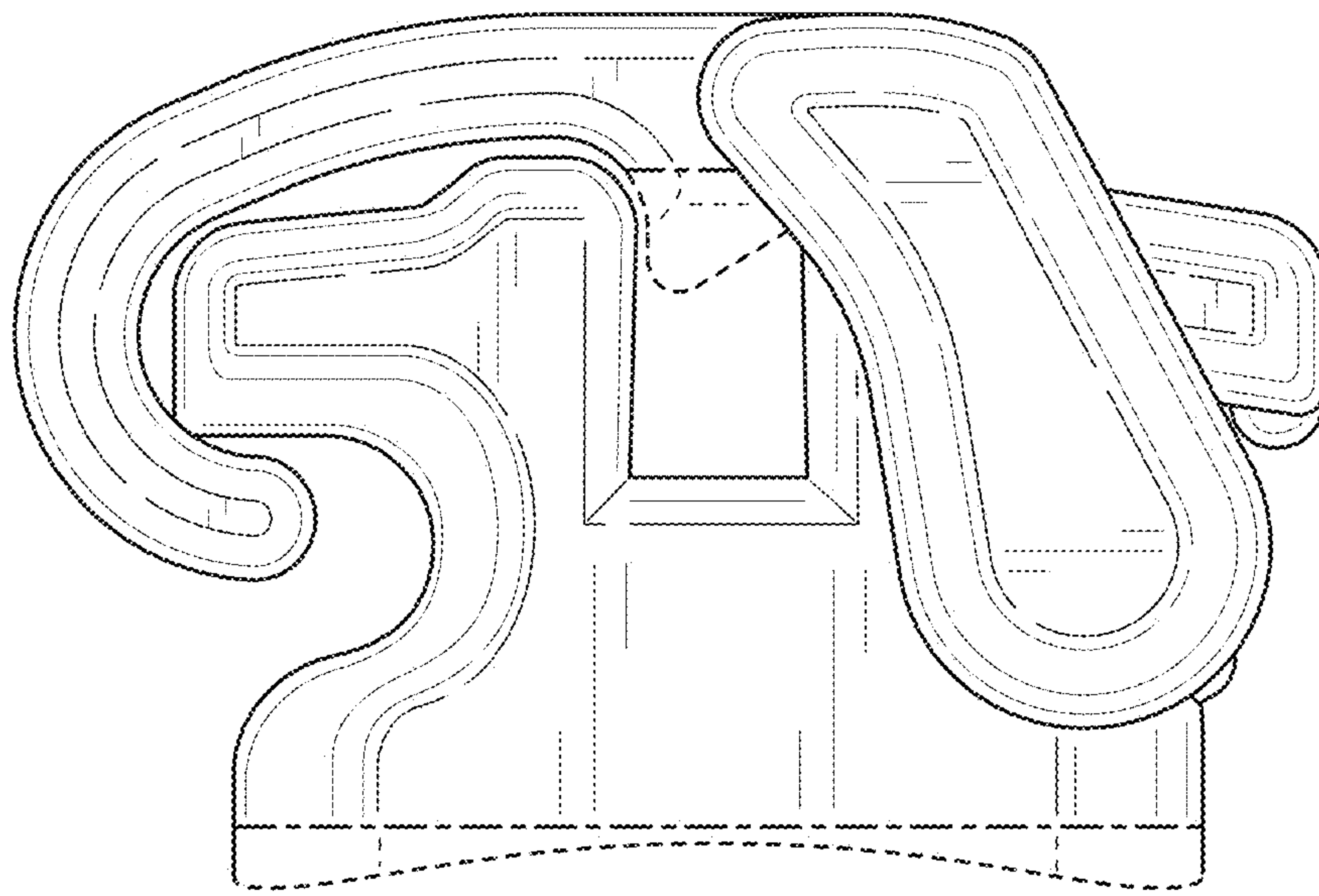


FIG. 12

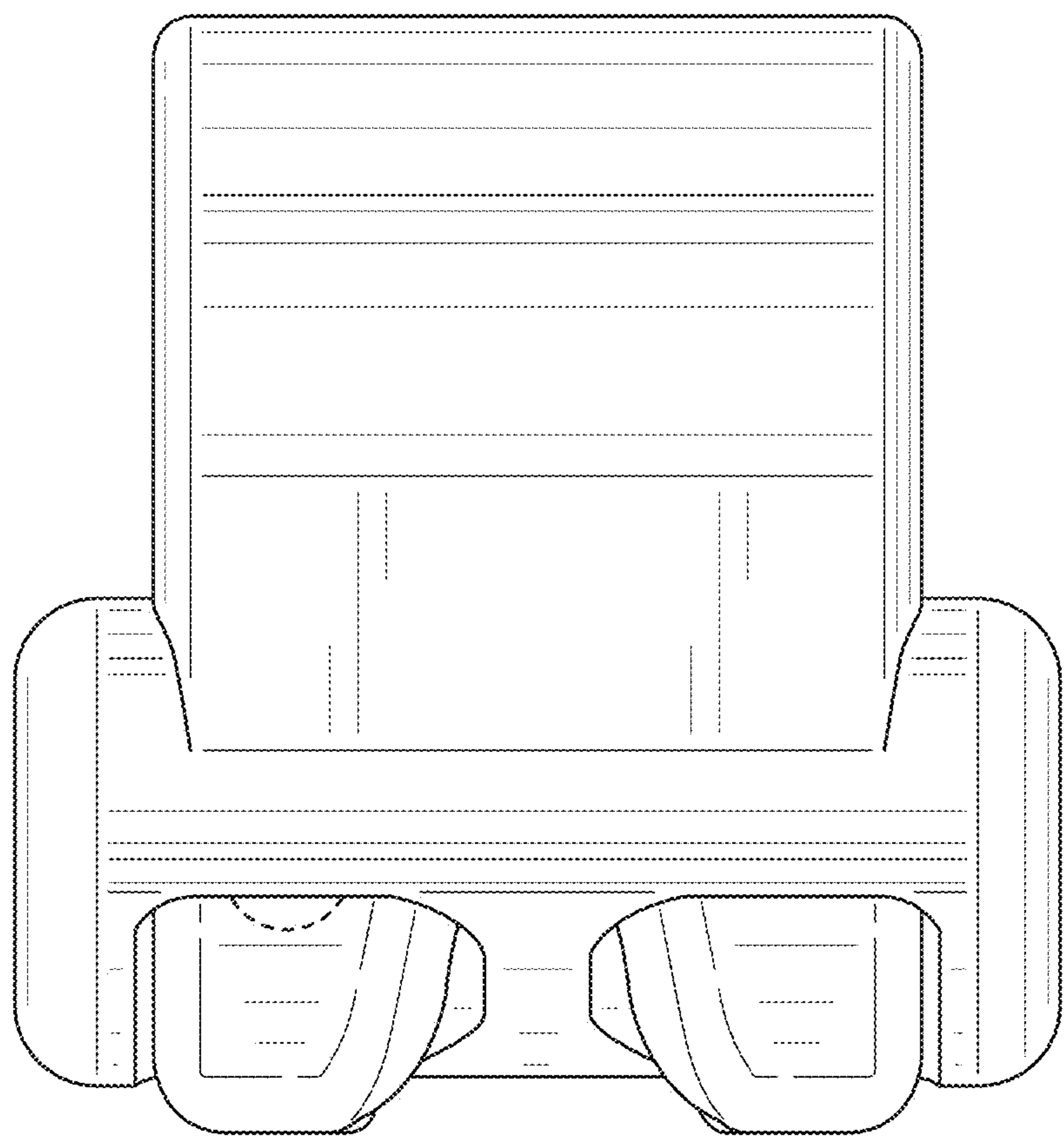


FIG. 13

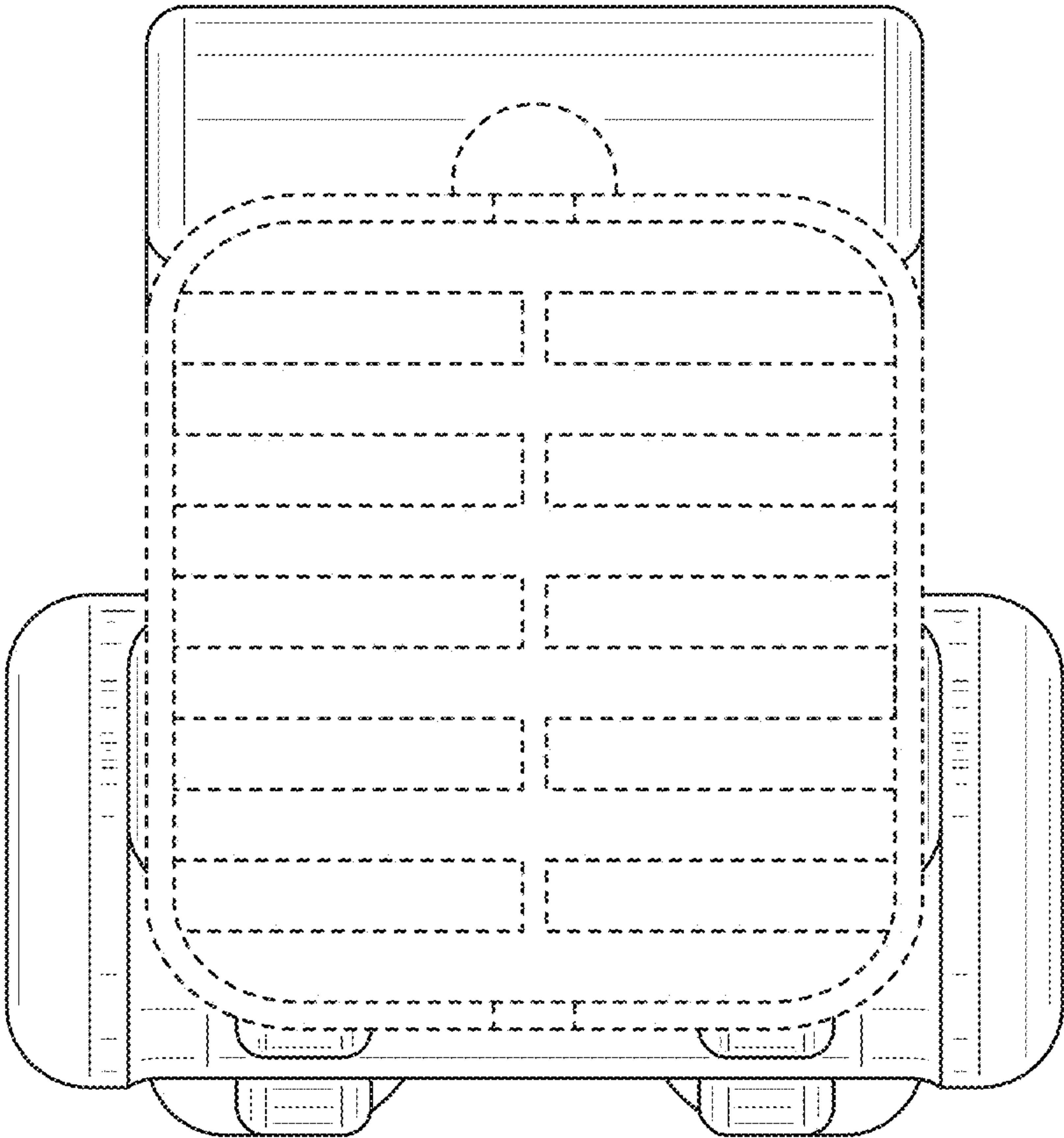


FIG. 14