

US00D977865S

(12)

United States Design Patent
McMillan et al.

(10)

Patent No.: US D977,865 S

(45)

Date of Patent: ** Feb. 14, 2023

(54) MODULAR CRADLE

(71) Applicant: KIDS2, INC., Atlanta, GA (US)

(72) Inventors: John McMillan, Lilburn, GA (US);
Frank M. Tyneski, Roswell, GA (US);
Bradford Rogers, Decatur, GA (US);
Franco Lodato, Sandy Springs, GA (US);
Tsz Kin Ho, Hong Kong (CN);
Pui Keung Chan, Hong Kong (CN);
Lorenz Bauer, Eindhoven (NL); Fazzio
Youn, Newbury Park, CA (US); Andre
De Salis, Pasadena, CA (US)

(73) Assignee: KIDS2, INC., Atlanta, GA (US)

(**) Term: 15 Years

(21) Appl. No.: 29/750,960

(22) Filed: Sep. 17, 2020

(51) LOC (14) Cl. 06-02

(52) U.S. Cl.
USPC D6/385; D6/344

(58) Field of Classification Search
USPC D6/333, 334, 341, 344, 345, 347, 348,
D6/367, 371, 373, 374, 375, 382, 385,
D6/386, 389, 715, 716, 718; D21/412,
D21/419, 521, 688, 814, 823, 824
CPC A47C 3/02; A47C 3/023; A47C 3/025;
A47C 3/0255; A47C 3/029; A47C 3/12;
A47C 5/04; A47C 5/043; A47C 5/046;
A47C 7/54; A47C 17/84; A47D 13/10;
A47D 13/107; A47D 13/105; A47D 1/08;
A47D 1/10; A47D 9/00; A47D 9/02;
A47D 9/04; A47D 11/00; A47D 11/005;
A63G 9/00; A63G 13/02

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

704,774 A 7/1902 Blackledge
813,521 A 2/1906 Reilly

(Continued)

FOREIGN PATENT DOCUMENTS

CA 2807309 A1 7/2014
CH 715326 A2 3/2020

(Continued)

OTHER PUBLICATIONS

Ingenuity Anyway Sway, available in Amazon.com, customer review
oldest date Nov. 14, 2021, site visited Jul. 6, 2022, URL:https://
www.amazon.com/Anyway-PowerAdapt-Dual-Direction-Portable-
Spruce/dp/B08VCNK53Y (Year: 2021).*

(Continued)

Primary Examiner — Mary Ann Calabrese

Assistant Examiner — Mark David Wolfley

(74) Attorney, Agent, or Firm — Gardner Groff &
Greenwald, PC

(57) CLAIM

The ornamental design for a modular cradle, as shown and
described.

DESCRIPTION

FIG. 1 is a front, top, right perspective view of a modular
cradle according to the design.

FIG. 2 is a rear, bottom, left perspective view of the cradle
of FIG. 1.

FIG. 3 is a front view of the cradle of FIG. 1.

FIG. 4 is a back view of the cradle of FIG. 1.

FIG. 5 is a first side view of the cradle of FIG. 1.

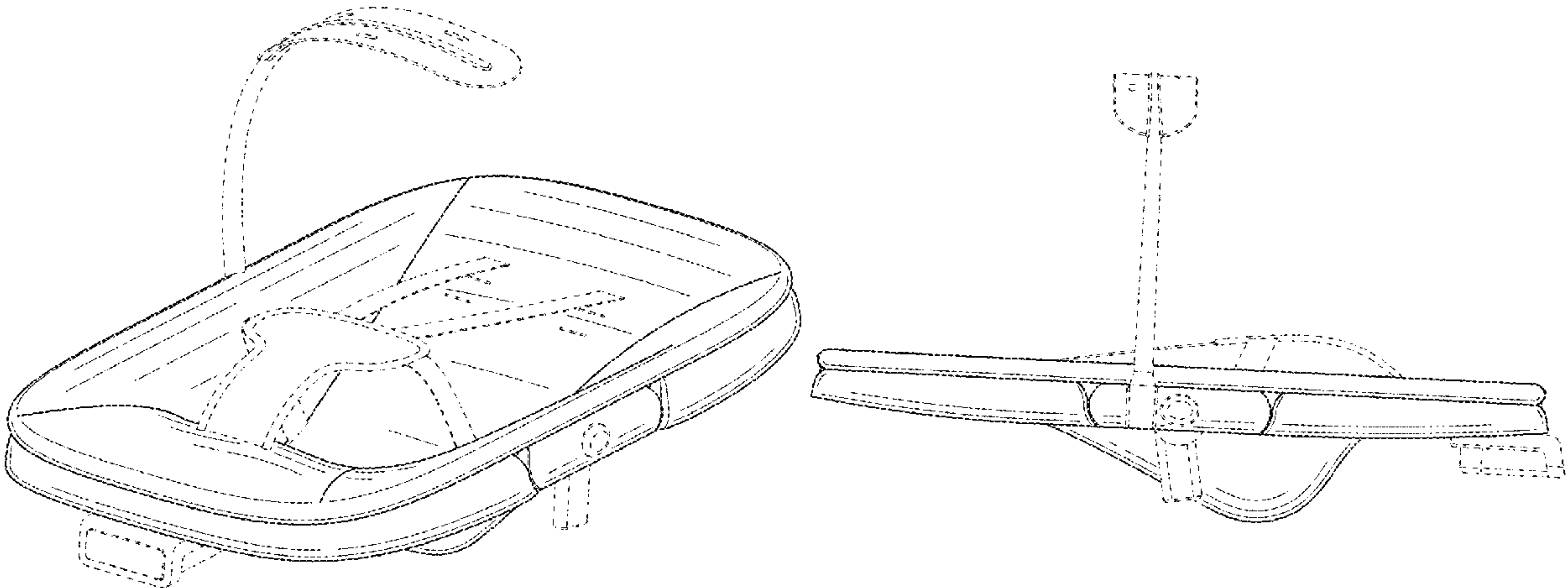
FIG. 6 is a second side view of the cradle of FIG. 1.

FIG. 7 is a top view of the cradle of FIG. 1; and,

FIG. 8 is a bottom view of the cradle of FIG. 1.

The broken line portions of the drawing figures are included
to show portions of the article or environment that are not
part of the claimed design.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

1,812,699 A	6/1931	Hursh	7,887,129 B2	2/2011	Hei et al.
2,482,318 A	9/1949	Carruth	7,896,431 B2	3/2011	Cui et al.
2,534,438 A	12/1950	Gosselin	7,905,549 B2	3/2011	Lake et al.
2,788,056 A	4/1957	Parker	7,909,400 B1	3/2011	DeLaney et al.
2,916,744 A	12/1959	May et al.	7,918,497 B2	4/2011	Keegan
2,936,464 A	5/1960	Miller	7,918,742 B2	4/2011	Clapper et al.
3,047,333 A	7/1962	Stanimir	7,922,244 B2	4/2011	Bearup
3,054,637 A	9/1962	Pambello	7,988,228 B2	8/2011	Cui et al.
3,269,771 A	8/1966	Edmund	8,011,722 B2	9/2011	Cui et al.
3,326,570 A	6/1967	Burnham et al.	8,029,053 B2	10/2011	Troutman et al.
3,331,631 A	7/1967	Pierson, Jr.	8,029,377 B2	10/2011	Velderman et al.
3,427,071 A	2/1969	Pierson, Jr.	8,038,207 B2	10/2011	Flannery
3,648,307 A	3/1972	Meade	8,079,639 B2	12/2011	Zeng et al.
3,769,641 A	11/1973	Harper et al.	8,142,297 B2	3/2012	Zhang
3,818,517 A	6/1974	Casella	8,146,989 B2	4/2012	Godiska et al.
3,849,812 A	11/1974	Walsh	8,162,390 B2	4/2012	Zhong
3,883,136 A	5/1975	Kim	D660,026 S *	5/2012	Shi D6/347
4,021,867 A	5/1977	Maxwell, Jr.	D660,053 S	5/2012	Sclare et al.
4,081,869 A	4/1978	Ash	8,177,297 B2	5/2012	Powell et al.
4,141,095 A	2/1979	Adachi	8,201,879 B2	6/2012	Hartenstine et al.
D267,663 S	1/1983	Krisel	8,205,943 B2	6/2012	Zhong
4,371,206 A	2/1983	Johnson, Jr.	8,210,610 B2	7/2012	Berkey et al.
4,377,011 A	3/1983	Kinberger	8,235,465 B2	8/2012	Hei et al.
4,550,456 A	11/1985	Allen	8,256,833 B2	9/2012	Hu et al.
4,615,059 A	10/1986	Darowski	8,256,841 B2	9/2012	Hei et al.
4,664,396 A	5/1987	Pietrafesa	8,276,985 B2	10/2012	Kho et al.
4,664,640 A	5/1987	Shindo et al.	8,287,044 B2	10/2012	Chen et al.
4,718,715 A	1/1988	Ho	8,292,365 B2	10/2012	Lu et al.
4,744,599 A	5/1988	Jankowski et al.	8,297,694 B2	10/2012	Arnold, IV et al.
D297,685 S	9/1988	Wilson	8,308,230 B2	11/2012	Zhong
4,854,638 A	8/1989	Marcus et al.	8,308,578 B2	11/2012	Gilbert et al.
4,881,285 A	11/1989	Zeeb	8,316,481 B2	11/2012	Arnold, IV et al.
4,921,369 A	5/1990	Chew, II	8,321,973 B2	12/2012	Bickley
4,951,997 A	8/1990	Kenney	8,376,461 B2	2/2013	Chen
4,968,092 A	11/1990	Giambrone	8,382,390 B2	2/2013	Cheng
4,996,732 A	3/1991	Chang	8,398,096 B2	3/2013	Gower et al.
5,010,826 A	4/1991	Kudlac	8,408,650 B2	4/2013	Jacobs et al.
5,161,273 A	11/1992	Deck	8,469,832 B2	6/2013	Gillett et al.
5,165,755 A	11/1992	Rho	8,491,402 B2	7/2013	Yeh et al.
5,178,438 A	1/1993	Beger	D689,703 S	9/2013	Oren et al.
5,187,826 A	2/1993	Mariol	8,522,374 B2	9/2013	Sousa et al.
5,254,007 A	10/1993	Eagan	D692,681 S *	11/2013	Robbins D6/347
5,293,655 A	3/1994	VanWinkle et al.	8,590,969 B2	11/2013	Erb et al.
5,294,172 A	3/1994	Dubus	8,602,490 B2	12/2013	Tsai et al.
5,303,433 A	4/1994	Jang	8,602,903 B2	12/2013	Gilbert
5,307,531 A	5/1994	Kao	8,602,904 B2	12/2013	Tuckey et al.
5,348,374 A	9/1994	Kuo	8,677,533 B2	3/2014	Barron et al.
D390,905 S	2/1998	Eldon et al.	8,684,856 B2	4/2014	Pyrce et al.
D429,585 S	8/2000	Huang	8,696,055 B2	4/2014	Stolarz et al.
D440,412 S	4/2001	Huang	8,708,832 B2	4/2014	Gilbert et al.
D478,220 S	8/2003	Chang	8,746,794 B2	6/2014	Oren et al.
D480,884 S	10/2003	Kane et al.	8,770,660 B2	7/2014	Chen et al.
D491,736 S	6/2004	Kane et al.	8,784,225 B2	7/2014	Burns et al.
7,475,937 B2	1/2009	McGrew et al.	8,795,097 B2	8/2014	Chapman et al.
7,490,558 B2	2/2009	Asbach et al.	8,806,673 B2	8/2014	Burkholder et al.
7,506,922 B2	3/2009	Schulte et al.	8,834,282 B2	9/2014	Sclare et al.
7,559,606 B2	7/2009	Hei et al.	8,844,549 B2	9/2014	Mohamed
7,563,170 B2	7/2009	Bellows et al.	8,845,023 B2	9/2014	Chen et al.
7,568,758 B2	8/2009	Troutman et al.	8,845,440 B2	9/2014	Haut
7,621,592 B1	11/2009	Flannery	8,876,617 B2	11/2014	Robbins et al.
7,651,168 B2	1/2010	Kelly	8,893,325 B2	11/2014	Arnold, IV et al.
7,673,934 B2	3/2010	Bearup et al.	8,893,326 B2	11/2014	Gooris
7,673,942 B2	3/2010	Bearup et al.	RE45,281 E	12/2014	Erb et al.
7,686,323 B2	3/2010	Chen	8,920,253 B2	12/2014	Horst et al.
7,695,374 B2	4/2010	Bellows et al.	8,943,622 B2	2/2015	Saint et al.
7,703,843 B2	4/2010	Chen et al.	8,944,927 B2	2/2015	Huntsberger et al.
7,770,970 B2	8/2010	Hei et al.	8,979,197 B2	3/2015	Cheng et al.
7,780,236 B2	8/2010	Bergkvist	8,984,682 B2	3/2015	Zhao
7,789,762 B2	9/2010	Greger et al.	8,985,687 B2	3/2015	Zhao
7,832,755 B2	11/2010	Nolan et al.	9,033,417 B2	5/2015	Mo
7,837,570 B2	11/2010	Kwon	9,033,809 B2	5/2015	Haut et al.
7,874,927 B2	1/2011	Godiska	9,039,079 B2	5/2015	Huntsberger et al.
7,883,145 B2	2/2011	Troutman et al.	9,089,225 B2	7/2015	Fiore, III et al.
7,883,426 B2	2/2011	Bellows et al.	9,101,225 B2	8/2015	Kostyniak et al.
7,884,710 B2	2/2011	Godiska et al.	9,161,636 B2	9/2015	Marcuello
			D737,584 S	9/2015	Shan
			9,127,709 B2	9/2015	Shan
			9,155,403 B2	10/2015	Mountz et al.
			9,161,636 B2	10/2015	Opsvik et al.
			9,167,911 B2	10/2015	Vlosich

(56)

References Cited

U.S. PATENT DOCUMENTS

D742,125 S	11/2015	Mountz et al.	2007/0085388 A1	4/2007	Nolan et al.
9,173,503 B2	11/2015	Mountz et al.	2007/0096528 A1	5/2007	Nolan et al.
D746,091 S	12/2015	Chen	2007/0145790 A1	6/2007	Ventrola
9,200,746 B2	12/2015	Xiao	2008/0079291 A1	4/2008	Cheng
9,216,359 B2	12/2015	Gilbert	2008/0136236 A1	6/2008	Kincaid et al.
9,242,180 B2	1/2016	Gilbert et al.	2008/0146359 A1	6/2008	Godiska
9,339,118 B2	5/2016	Gubitosi et al.	2008/0146361 A1	6/2008	Godiska
9,351,587 B2	5/2016	Burns et al.	2008/0149580 A1	6/2008	Hill
9,351,588 B2	5/2016	Burns et al.	2008/0179921 A1	7/2008	Lake et al.
9,364,098 B2	6/2016	Fiore, III et al.	2008/0217983 A1	9/2008	Cheng
9,399,416 B2	7/2016	Cheng et al.	2008/0229496 A1	9/2008	Wang
9,404,528 B2	8/2016	Shan	2008/0290699 A1	11/2008	Golias
9,414,694 B2	8/2016	Arnold, IV et al.	2009/0062622 A1	3/2009	Lin
9,420,899 B2	8/2016	Merlo	2009/0184547 A1	7/2009	Sclare et al.
9,480,343 B2	11/2016	Haut et al.	2009/0284050 A1	11/2009	Myers
9,554,657 B2	1/2017	Taylor et al.	2010/0017959 A1	1/2010	Yoshe et al.
9,554,658 B2	1/2017	Horst et al.	2010/0151951 A1 *	6/2010	Gilbert A63G 9/16 700/275
9,585,493 B2	3/2017	Haut et al.	2010/0162487 A1	7/2010	Chen et al.
9,603,464 B2	3/2017	Sclare et al.	2010/0231018 A1	9/2010	Arnold, IV et al.
9,629,476 B1	4/2017	Robbins et al.	2010/0231019 A1	9/2010	Berkey et al.
9,635,955 B2	5/2017	Greger	2010/0264719 A1 *	10/2010	Burns A47D 1/103 297/487
9,661,936 B2	5/2017	Lin et al.	2010/0314925 A1	12/2010	Hei et al.
9,675,182 B2	6/2017	Longenecker	2011/0062676 A1	3/2011	Gower et al.
9,693,639 B2	7/2017	Corso et al.	2011/0074195 A1	3/2011	Hei et al.
9,706,855 B2	7/2017	Arnold, IV et al.	2011/0227384 A1	9/2011	Huntsberger et al.
9,750,351 B2	9/2017	Sack et al.	2011/0260507 A1	10/2011	Parness et al.
9,756,961 B2	9/2017	Haut	2012/0036635 A1	2/2012	Lapointe
9,756,962 B2	9/2017	Perrin et al.	2012/0267925 A1	10/2012	Hei et al.
9,757,660 B2	9/2017	Leibovics et al.	2012/0286545 A1	11/2012	Cheng
D799,839 S	10/2017	Wanders	2013/0099545 A1	4/2013	Cheng
9,775,445 B2	10/2017	Burns et al.	2013/0292984 A1	11/2013	You et al.
9,861,209 B2	1/2018	Arnold, IV et al.	2013/0319884 A1	12/2013	Gomez
9,861,210 B2	1/2018	Tadipatri et al.	2013/0320726 A1	12/2013	Teng
9,868,071 B2	1/2018	Gilbert et al.	2014/0287846 A1 *	9/2014	Mountz A47D 13/105 472/118
9,883,749 B2	2/2018	Kostyniak et al.	2014/0368006 A1	12/2014	Taylor et al.
9,895,005 B2	2/2018	Castilla	2015/0137565 A1	5/2015	Kho et al.
9,907,411 B2	3/2018	Burns et al.	2015/0265068 A1 *	9/2015	Ferraro A47D 9/02 472/118
9,918,561 B2	3/2018	Perrin et al.	2015/0272341 A1	10/2015	Perrin et al.
D814,838 S *	4/2018	Van Huystee D6/715	2015/0289676 A1	10/2015	Huntsberger et al.
9,936,817 B2	4/2018	Horst et al.	2015/0289677 A1	10/2015	Huntsberger et al.
9,955,799 B2	5/2018	Tadipatri et al.	2015/0335170 A1	11/2015	Castilla
9,968,204 B2	5/2018	Mountz et al.	2015/0342367 A1	12/2015	Corso et al.
9,974,396 B2	5/2018	Sozzo et al.	2016/0037942 A1 *	2/2016	Guozhu A47D 13/107 297/274
9,986,850 B2	6/2018	Haut et al.	2016/0066708 A1	3/2016	Sclare
10,016,068 B2	7/2018	Van Huystee et al.	2016/0270556 A1	9/2016	Sack et al.
10,045,635 B2	8/2018	Mountz et al.	2016/0286978 A1	10/2016	Sclare et al.
10,051,975 B2	8/2018	Taylor et al.	2016/0309909 A1	10/2016	Costello et al.
10,053,131 B2	8/2018	Ruggiero et al.	2016/0309910 A1	10/2016	Sclare
10,080,443 B2	9/2018	Terhune et al.	2016/0309915 A1 *	10/2016	Burns A47D 1/0085
10,092,113 B2	10/2018	Longenecker et al.	2016/0316932 A1	11/2016	Gomez
10,098,476 B2	10/2018	Winterhalter et al.	2016/0324330 A1	11/2016	Xu
10,106,187 B1	10/2018	Farrar et al.	2016/0338517 A1	11/2016	Snowden
10,154,738 B2	12/2018	Mountz	2017/0112294 A1	4/2017	Taylor et al.
10,231,555 B2	3/2019	Hopke et al.	2017/0196373 A1	7/2017	Sclare et al.
10,278,513 B2	5/2019	Kostyniak et al.	2017/0215600 A1	8/2017	Gunnigle
10,299,607 B2	5/2019	Kostyniak et al.	2017/0251826 A1	9/2017	Sclare et al.
10,327,565 B2	6/2019	Sozzo et al.	2017/0251830 A1	9/2017	Sclare et al.
10,327,566 B2	6/2019	Mountz	2017/0251831 A1	9/2017	Perrin
D859,861 S *	9/2019	Kapanzhi D6/715	2018/0042399 A1	2/2018	Greger
10,413,085 B2	9/2019	Haut	2018/0049585 A1	2/2018	Crosby
10,681,993 B2	6/2020	Mountz et al.	2018/0070738 A1	3/2018	Burns et al.
2002/0033629 A1	3/2002	Riedl	2018/0070739 A1	3/2018	Arnold, IV et al.
2002/0036416 A1	3/2002	Mendenhall et al.	2018/0098641 A1	4/2018	Kapanzhi et al.
2002/0074835 A1	6/2002	Chalender	2018/0116423 A1	5/2018	Warjanka
2003/0218366 A1	11/2003	Rho	2018/0236904 A1	8/2018	Lehman et al.
2003/0222485 A1	12/2003	Dwyer	2018/0263379 A1	9/2018	Cheng
2005/0006930 A1	1/2005	Nolan et al.	2018/0279799 A1	10/2018	Ingraham et al.
2005/0127722 A1	6/2005	Longenecker et al.	2018/0279800 A1	10/2018	Terhune et al.
2005/0146168 A1	7/2005	Nolan	2018/0279801 A1	10/2018	Ingraham et al.
2006/0066142 A1	3/2006	Nolan et al.	2019/0059609 A9	2/2019	Sclare et al.
2006/0103178 A1	5/2006	Wun	2019/0059610 A1	2/2019	Chen
2006/0225204 A1	10/2006	Bretschger et al.	2019/0059611 A1	2/2019	Burns et al.
2006/0286893 A1	12/2006	Conaway	2019/0104861 A1	4/2019	Patel
2007/0069566 A1	3/2007	Li			
2007/0075525 A1	4/2007	Nolan et al.			

(56) **References Cited**

 U.S. PATENT DOCUMENTS

2019/0216230 A1 7/2019 Kostyniak et al.
2019/0231087 A1 8/2019 Dziak et al.
2019/0246809 A1 8/2019 Fredankey, Sr.

FOREIGN PATENT DOCUMENTS

CN 1939790 A 4/2007
CN 202375652 U 8/2012
CN 108294554 A 7/2018
CN 110269433 A 9/2019
DE 3427755 A1 1/1986
DE 202008018316 U1 11/2012
DE 102014118357 A1 6/2015
DE 102020200033 A1 7/2020
EP 0534215 A1 3/1993
EP 1764282 A2 3/2007
FR 2992152 A3 12/2013
GB 2495965 A 5/2013
GB 2517268 A 2/2015
GB 2517268 B 8/2016
NL 1015897 C1 2/2002
WO 1997016095 A1 5/1997

WO 2008013566 A1 1/2008
WO 2010107453 A1 9/2010
WO 2019073268 A1 4/2019

OTHER PUBLICATIONS

Graco Soothe 'n Sway Baby Swing, available in walmart.com, customer review oldest date Apr. 14, 2022, site visited Jul. 6, 2022, URL: <https://www.walmart.com/ip/Graco-Soothe-n-Sway> (Year: 2022).
Anyway Sway, announced on YouTube on Feb. 19, 2021, site visited Jul. 6, 2022, URL: <https://www.youtube.com/watch?v=YpTjrTzkVbg> (Year: 2021).
Design # 008354385-0008, App. Date Dec. 21, 2020, Country code EU, Publication date Jan. 13, 2021, Owner name Kids2, Inc., Creator Bradford Joseph Rogers, Frank M Tyneski, John Arthur McMillan, Franco Lodato, Tsz Kin Ho, Andre De Salis, Fazzio Youn, Pui Keung Chan, Lorenz Bauer (Year: 2020).
Chicco, Stack-3-In-1-Highchair, webpage, <<https://www.chiccousa.com/stack-3-in-1-highchair/Stack-3-In-1-Highchair.html>>.
Song, Peng, Reconfigurable Interlocking Furniture (SIGGRAPH Asia 2017), Youtube video, <<https://www.youtube.com/watch?v=fCGOsLpz7P8>>, Aug. 26, 2017.

* cited by examiner

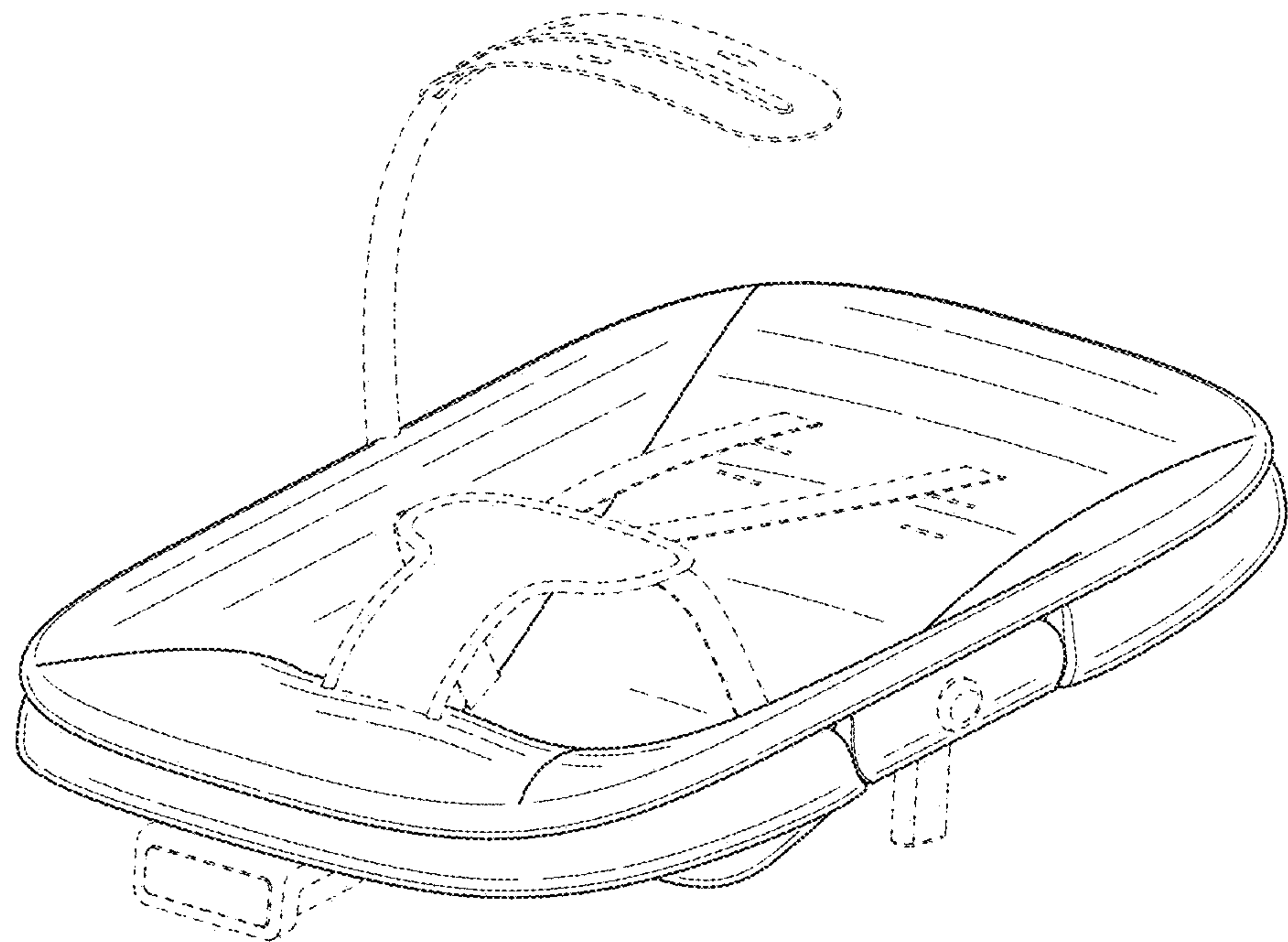


FIG. 1

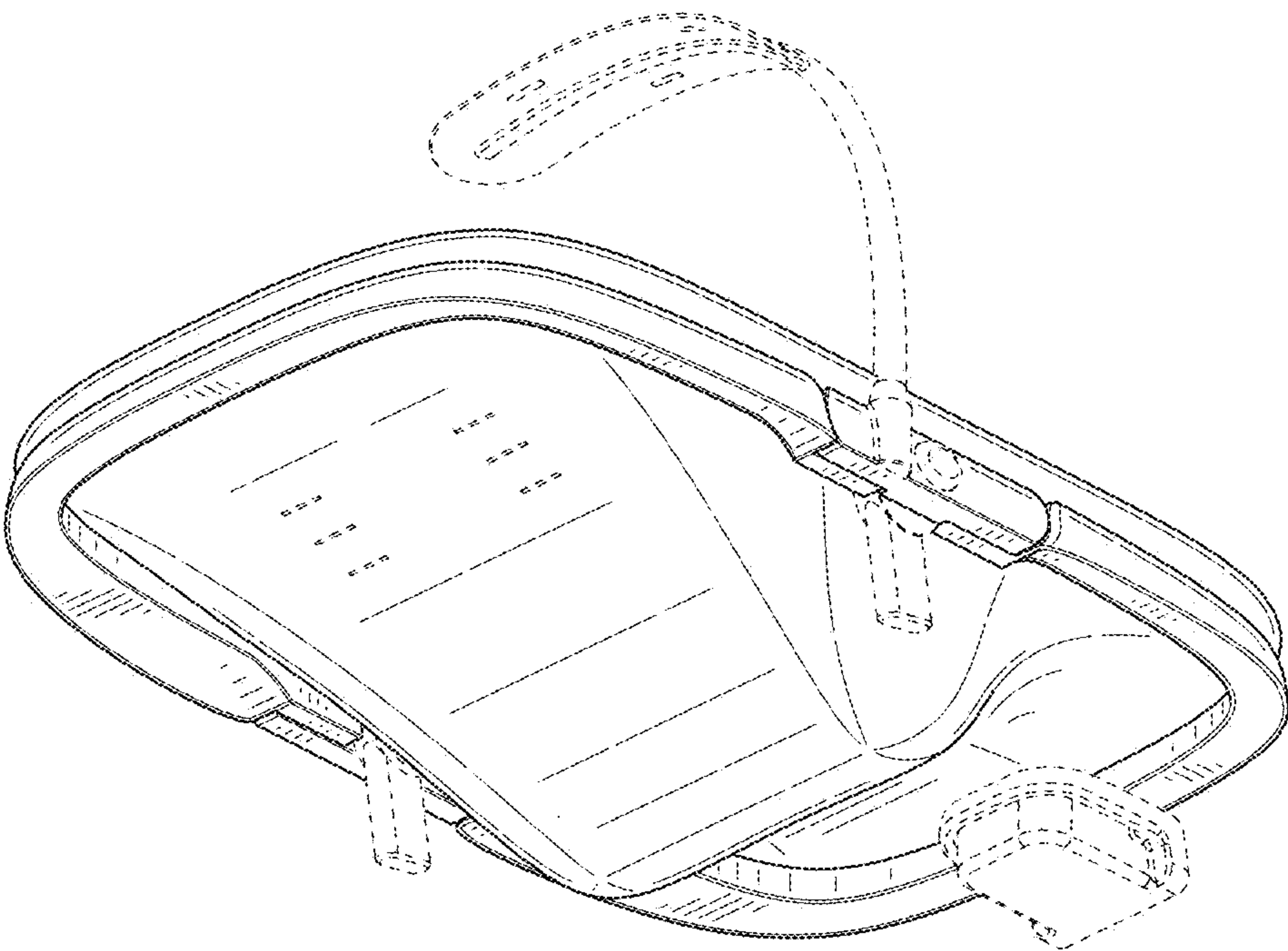


FIG. 2

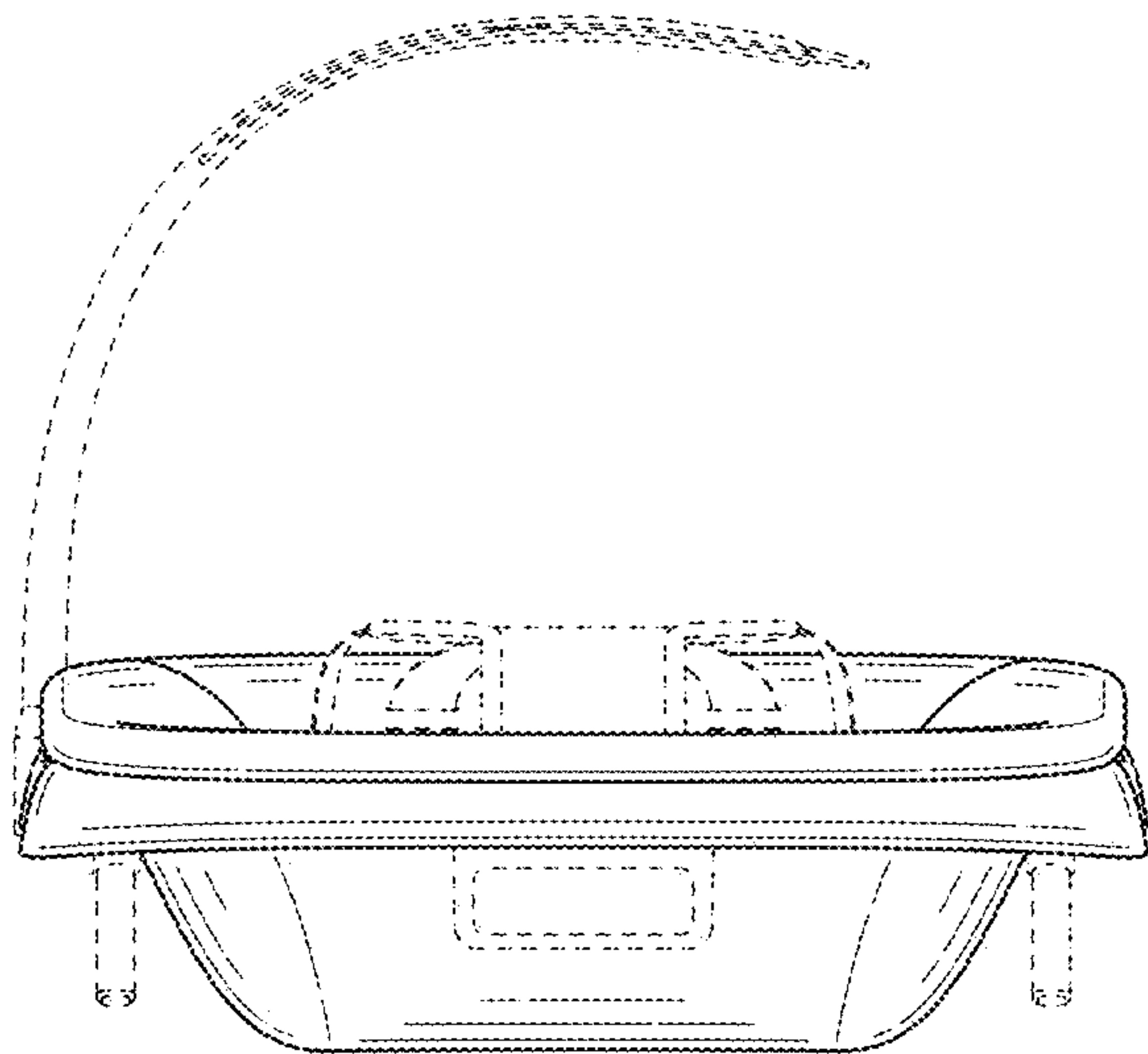


FIG. 3

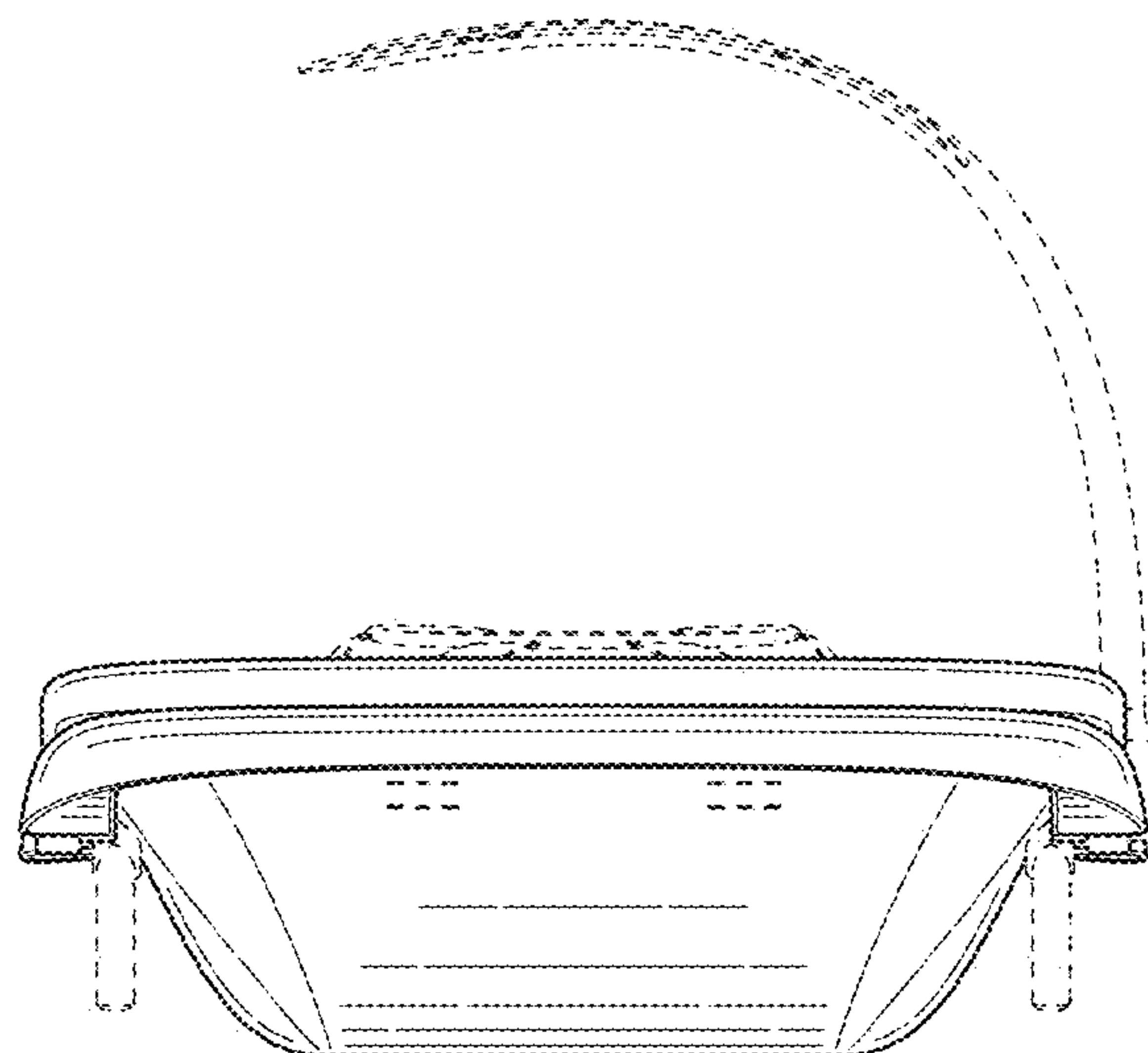


FIG. 4

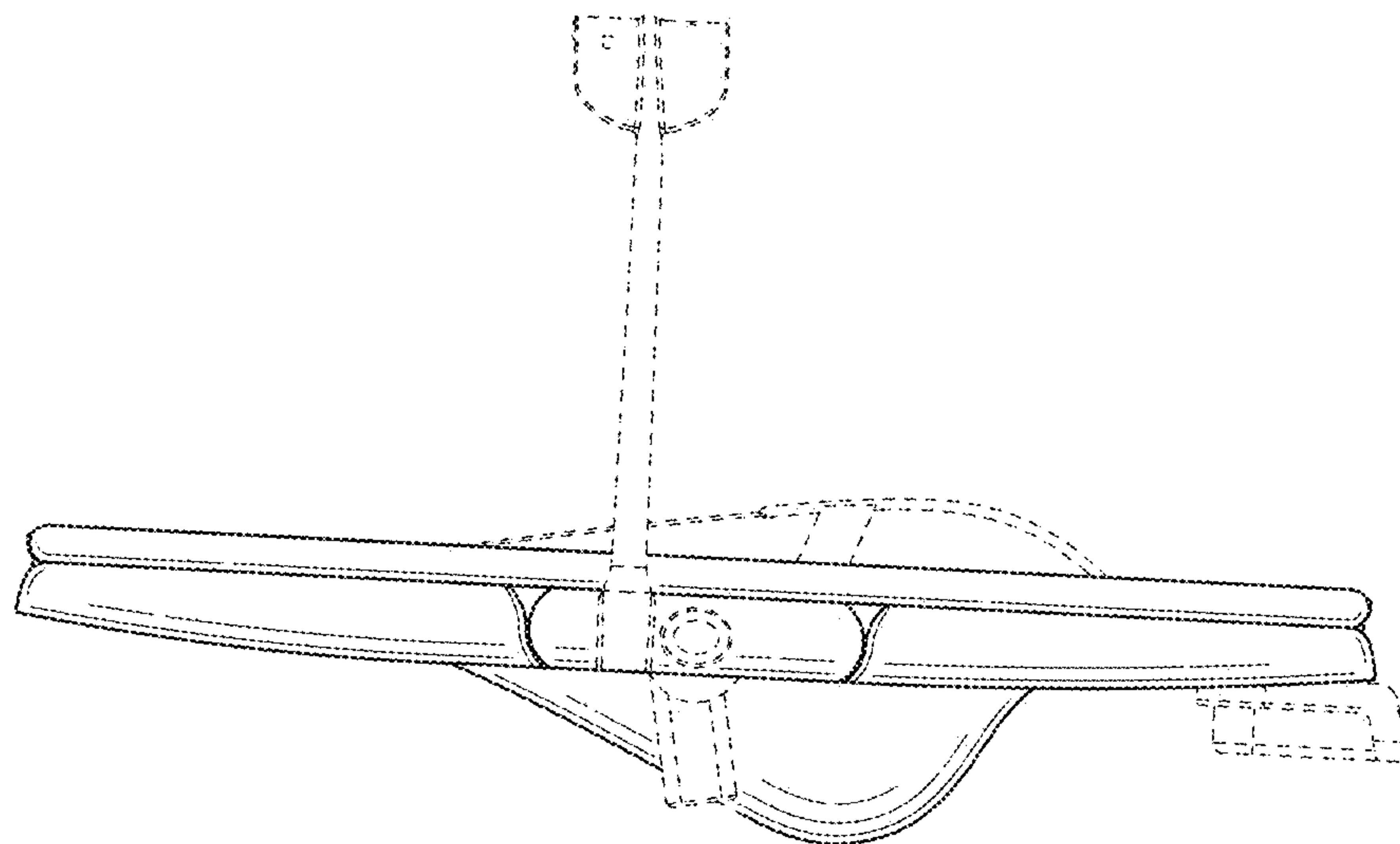


FIG. 5

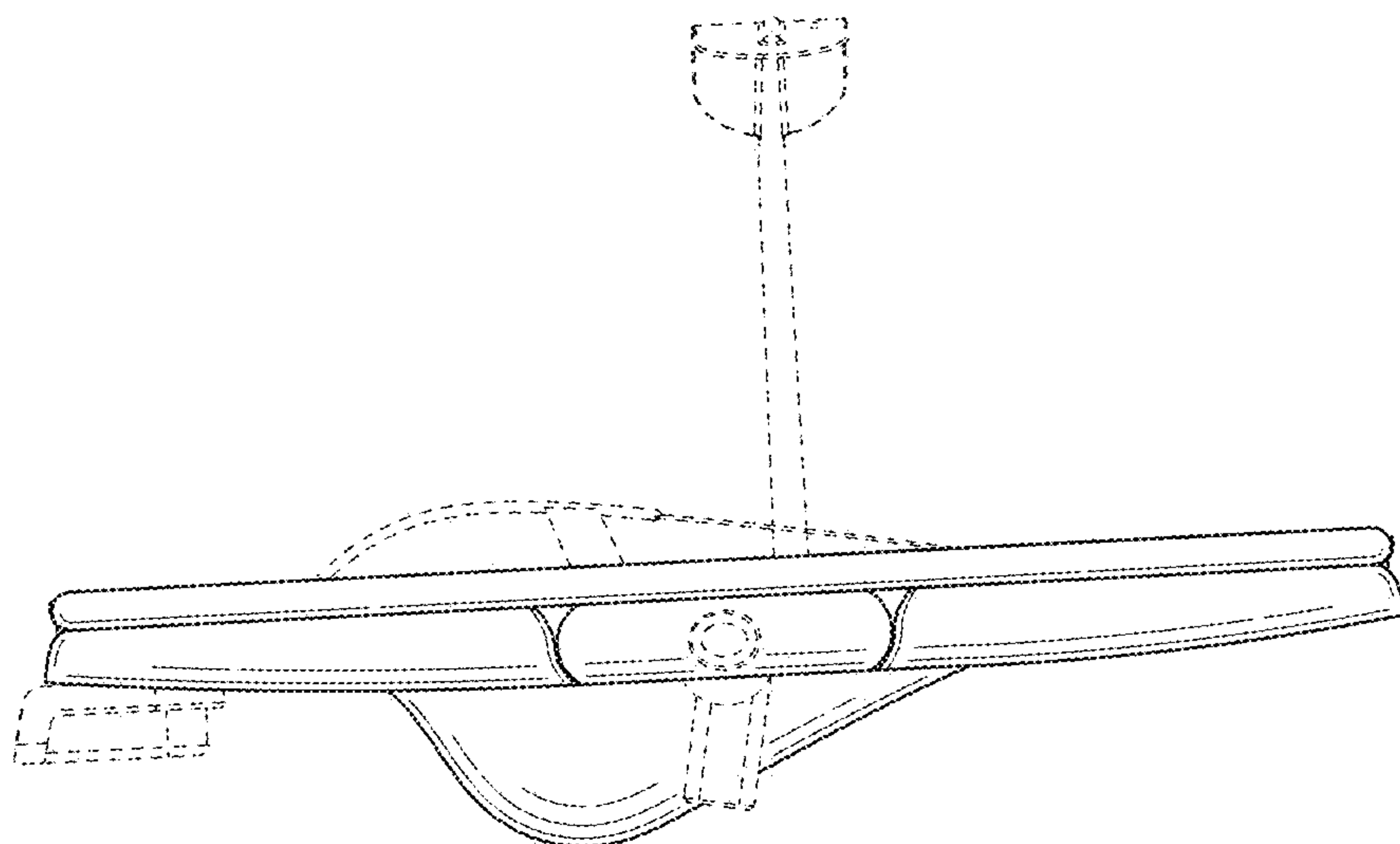


FIG. 6

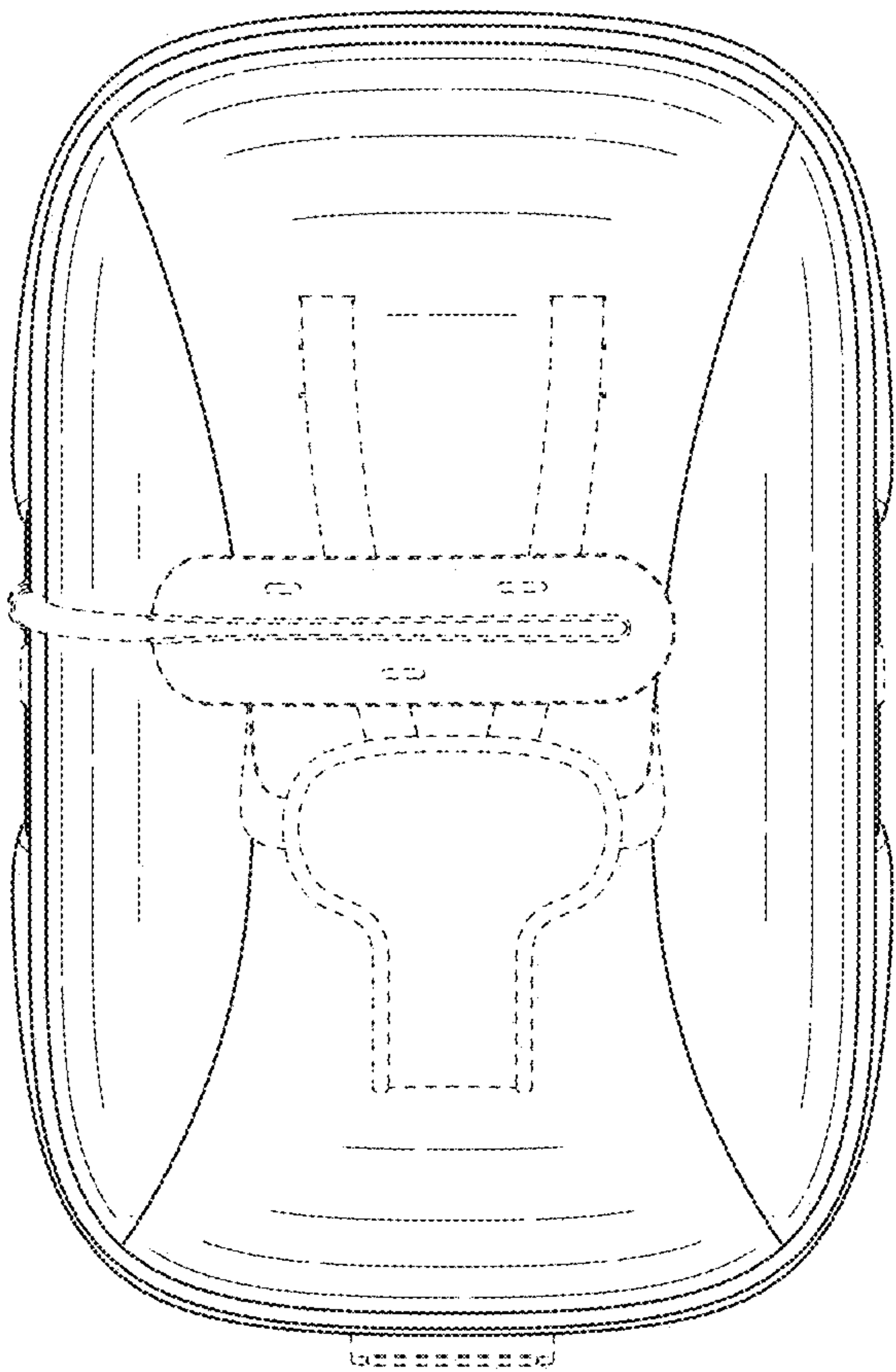


FIG. 7

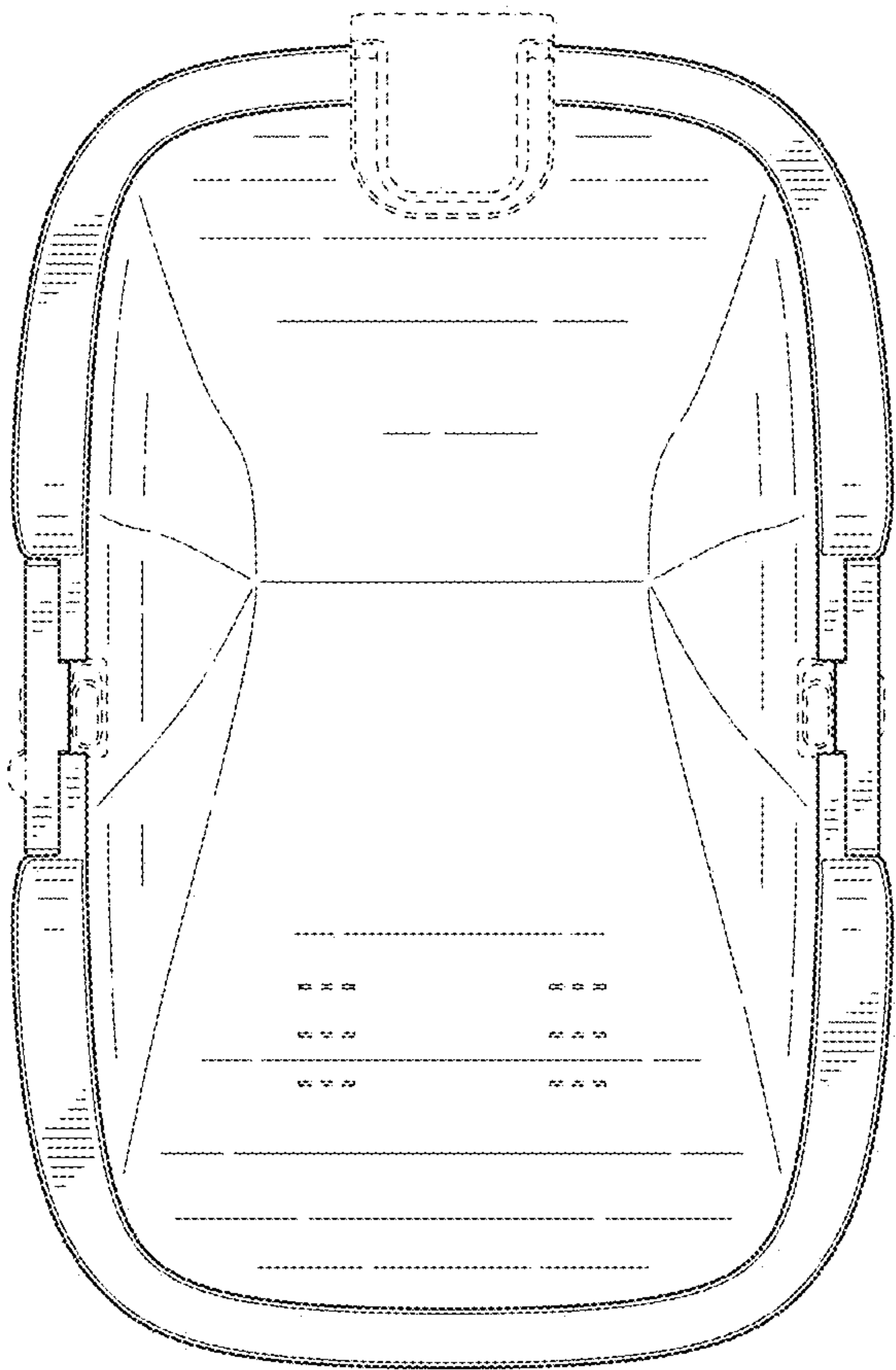


FIG. 8