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

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(54) **ADAPTER FOR A GROUND ENGAGING MACHINE IMPLEMENT**

3,019,537 A 2/1962 Stephenson  
3,079,710 A 3/1963 Larsen et al.  
3,312,004 A 4/1967 Johnson  
3,623,247 A 11/1971 Stepe

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(Continued)

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**FOREIGN PATENT DOCUMENTS**

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AU 300371 12/2004  
AU 308226 8/2006

(Continued)

(\*\*) Term: **15 Years**

**OTHER PUBLICATIONS**

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Caterpillar Inc., Cat® K Series™ Tooth Systems, brochure (4 pages), 2006.

(Continued)

(22) Filed: **Nov. 18, 2020**

(51) **LOC (13) Cl.** ..... **D15-03**

(52) **U.S. Cl.**  
USPC ..... **D15/29**; D15/28

(58) **Field of Classification Search**  
USPC ..... D15/11, 28, 29; 37/456, 452, 450, 446,  
37/454, 449, 453, 455, 903; 403/379.5,  
403/DIG. 1; 111/152; 172/724, 730,  
172/766, 770, 771, 721, 713, 699, 772  
CPC ..... Y10T 29/49826; Y10T 403/589; Y10T  
403/7018; Y10T 403/7075; E02F 9/28;  
E02F 9/2825; E02F 9/2833; E02F 9/2866;  
E02F 9/2858; E02F 9/2808; E02F 9/2841  
See application file for complete search history.

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(57) **CLAIM**

The ornamental design for an adapter for a ground engaging machine implement, as shown and described.

**DESCRIPTION**

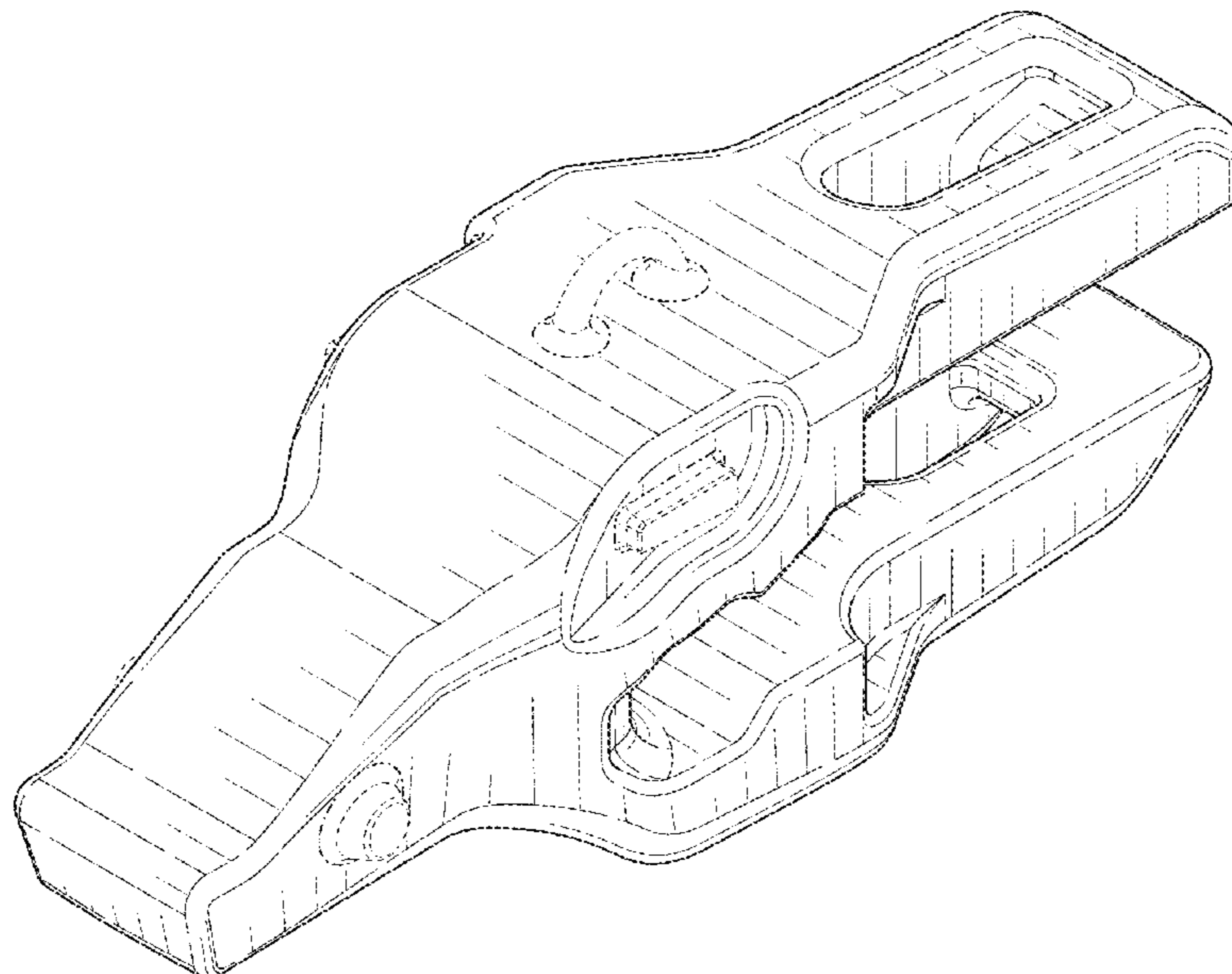
FIG. 1 is a front perspective view of an adapter for a ground engaging machine implement showing our new design; FIG. 2 is a front view thereof; FIG. 3 is a rear view thereof; FIG. 4 is a left side view thereof; FIG. 5 is a right side view thereof; FIG. 6 is a top view thereof; and, FIG. 7 is a bottom view thereof. The broken lines illustrate structure or features which form no part of the claimed design. The dot-dash broken lines illustrate boundaries which form no part of the claimed design.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

1,220,186 A 3/1917 Chambers  
1,384,701 A 7/1921 McMonegal  
1,571,782 A 2/1926 Andrews  
1,856,930 A 5/1932 Robin  
2,256,488 A 9/1941 Murtaugh  
2,427,651 A 9/1947 Baer  
D182,143 S 2/1958 Petersen  
2,982,035 A 5/1961 Stephenson

**1 Claim, 6 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

3,774,324	A	11/1973	Lafond	7,451,558	B2	11/2008	Jones	
3,823,496	A	7/1974	Querci et al.	7,596,895	B2	10/2009	Jones	
3,832,077	A	8/1974	Von Mehren	D614,206	S	4/2010	Ruvang	
4,027,408	A	6/1977	Ramella et al.	7,739,814	B2	6/2010	Carpenter et al.	
D251,431	S	3/1979	Klett et al.	7,762,015	B2	7/2010	Smith et al.	
D252,461	S	7/1979	Korpi	D624,943	S	10/2010	Gibbon	
4,182,057	A	1/1980	Klett et al.	8,122,621	B2	2/2012	Carpenter et al.	
D255,119	S	5/1980	Korpi	8,191,291	B2	6/2012	Vanderpoorten et al.	
4,231,173	A	11/1980	Davis	8,307,574	B2	11/2012	Ruvang	
4,335,532	A	6/1982	Hahn et al.	8,327,563	B2	12/2012	Dingwall et al.	
D274,434	S	6/1984	Nilsson	8,356,432	B2	1/2013	Carpenter	
D275,859	S	10/1984	Nilsson	8,397,405	B2	3/2013	Harder et al.	
4,481,728	A	11/1984	Mulder et al.	D706,307	S	* 6/2014	Renski .....	D15/28
4,516,340	A	5/1985	Launder	D706,311	S	6/2014	Renski et al.	
D296,442	S	6/1988	Broomhall	D706,312	S	6/2014	Renski et al.	
4,761,900	A	8/1988	Emrich	D706,839	S	6/2014	Renski et al.	
4,776,113	A	10/1988	Bedford et al.	D706,840	S	6/2014	Renski et al.	
4,848,013	A	7/1989	Bowman et al.	D707,263	S	6/2014	Renski et al.	
4,932,145	A	6/1990	Reeves	D707,264	S	* 6/2014	Renski .....	D15/29
4,949,481	A	8/1990	Fellner	8,943,717	B2	2/2015	Renski et al.	
4,965,945	A	10/1990	Emrich	D727,367	S	* 4/2015	Renski .....	D15/28
4,980,980	A	1/1991	Schadov et al.	D727,368	S	4/2015	Renski et al.	
5,018,283	A	5/1991	Fellner	D727,369	S	* 4/2015	Renski .....	D15/29
5,144,762	A	9/1992	Robinson	D727,979	S	4/2015	Renski et al.	
D336,476	S	6/1993	Garman	D727,980	S	4/2015	Renski et al.	
D339,592	S	9/1993	Johansson	D727,981	S	4/2015	Renski et al.	
D345,364	S	3/1994	Robinson	D727,982	S	4/2015	Renski et al.	
D352,044	S	11/1994	Hahn	D728,635	S	5/2015	Kunz	
5,423,138	A	6/1995	Livesay et al.	D728,636	S	5/2015	Kunz	
D365,577	S	12/1995	Ruvang	D728,637	S	5/2015	Kunz	
5,561,925	A	10/1996	Livesay	9,057,177	B2	6/2015	Renski et al.	
5,666,748	A	9/1997	Emrich et al.	9,062,436	B2	6/2015	Renski et al.	
D385,286	S	10/1997	Moreno	9,222,243	B2	12/2015	Cheyne et al.	
5,709,043	A	1/1998	Jones et al.	D748,679	S	* 2/2016	Renski .....	D15/28
D391,583	S	3/1998	Moreno	D748,681	S	2/2016	Renski et al.	
D392,292	S	3/1998	Moreno	D748,682	S	2/2016	Renski et al.	
D395,661	S	6/1998	Moreno	D748,684	S	2/2016	Renski et al.	
5,806,216	A	9/1998	Renski	D748,685	S	2/2016	Kunz	
D399,511	S	10/1998	Launder et al.	D749,146	S	2/2016	Renski et al.	
5,852,888	A	12/1998	Cornelius	D749,147	S	2/2016	Kunz	
D408,422	S	4/1999	Moreno	9,309,651	B2	4/2016	Jeske et al.	
D410,657	S	6/1999	Launder et al.	D761,883	S	7/2016	Kunz	
D413,338	S	8/1999	Pueyo Molina	D769,946	S	10/2016	Kunz	
5,937,550	A	8/1999	Emrich	D774,108	S	12/2016	Balan et al.	
D414,193	S	9/1999	Launder et al.	D774,109	S	12/2016	Balan et al.	
D415,173	S	10/1999	Zaun	D774,110	S	12/2016	Balan et al.	
5,983,534	A	11/1999	Robinson et al.	D774,564	S	12/2016	Balan et al.	
D417,877	S	12/1999	Launder et al.	D774,565	S	12/2016	Balan et al.	
6,032,390	A	3/2000	Bierwith	D774,566	S	12/2016	Balan et al.	
D429,256	S	8/2000	Zaun	D774,567	S	12/2016	Balan et al.	
D429,258	S	8/2000	Zaun	D775,240	S	12/2016	Balan et al.	
6,321,471	B2	11/2001	Fernandez Muñoz et al.	D775,241	S	12/2016	Balan et al.	
D454,891	S	3/2002	Ketting et al.	D775,242	S	12/2016	Balan et al.	
H2020	H	5/2002	Kesavan et al.	D775,243	S	12/2016	Serrurier et al.	
D460,464	S	7/2002	Ketting et al.	D775,673	S	1/2017	Balan et al.	
D461,198	S	8/2002	Ketting et al.	D782,546	S	3/2017	Balan et al.	
D461,832	S	8/2002	Ketting et al.	D784,424	S	* 4/2017	Renski .....	D15/29
6,477,796	B1	11/2002	Cornelius	9,624,651	B2	4/2017	Renski et al.	
6,735,890	B2	5/2004	Carpenter et al.	9,644,347	B2	5/2017	Balan et al.	
6,745,503	B1	6/2004	Moreno et al.	9,644,348	B2	5/2017	Balan et al.	
6,766,602	B2	7/2004	Cox et al.	D790,601	S	6/2017	Balan et al.	
D499,749	S	12/2004	Launder et al.	D790,602	S	6/2017	Balan et al.	
6,836,983	B2	1/2005	Moreno et al.	D790,603	S	6/2017	Balan et al.	
6,865,828	B1	3/2005	Molino et al.	D790,604	S	6/2017	Balan et al.	
6,871,426	B2	* 3/2005	Keech .....	D790,605	S	6/2017	Balan et al.	
			E02F 9/2825	D790,606	S	6/2017	Balan et al.	
			37/456	D790,607	S	6/2017	Balan et al.	
D505,137	S	5/2005	Steinlage et al.	D801,397	S	10/2017	Balan et al.	
D512,078	S	11/2005	Poutre	D803,274	S	11/2017	Serrurier et al.	
D527,029	S	8/2006	Launder et al.	D803,275	S	11/2017	Serrurier et al.	
7,100,315	B2	9/2006	Carpenter et al.	D803,897	S	11/2017	Serrurier et al.	
7,168,193	B2	1/2007	Moreno et al.	D803,898	S	11/2017	Serrurier et al.	
D552,632	S	10/2007	De Martiis	D803,899	S	11/2017	Serrurier et al.	
7,299,570	B2	11/2007	Emrich et al.	D803,900	S	11/2017	Serrurier et al.	
D560,232	S	1/2008	De Martiis	D803,901	S	11/2017	Serrurier et al.	
7,367,144	B2	5/2008	Jones et al.	D803,902	S	11/2017	Serrurier et al.	
				D803,902	S	11/2017	Serrurier et al.	
				D805,112	S	12/2017	Serrurier et al.	
				D805,562	S	* 12/2017	Serrurier .....	D15/29
				D806,139	S	12/2017	Serrurier et al.	

(56)

References Cited

U.S. PATENT DOCUMENTS

D806,140 S \* 12/2017 Serrurier ..... D15/29  
 D806,141 S \* 12/2017 Serrurier ..... D15/29  
 D806,142 S \* 12/2017 Serrurier ..... D15/29  
 D806,758 S 1/2018 Serrurier et al.  
 D806,759 S 1/2018 Serrurier et al.  
 9,976,287 B2 5/2018 Kunz  
 D832,310 S \* 10/2018 Balan ..... D15/29  
 10,119,252 B2 11/2018 Campomanes  
 D840,441 S \* 2/2019 Serrurier ..... D15/29  
 D842,345 S 3/2019 Kunz  
 D842,347 S 3/2019 Bjerke et al.  
 D857,761 S \* 8/2019 Balan ..... D15/29  
 D857,762 S 8/2019 Kunz  
 D888,785 S 6/2020 Sinn et al.  
 D894,970 S 9/2020 Wells et al.  
 D894,972 S 9/2020 Sinn et al.  
 D905,763 S \* 12/2020 Sinn ..... D15/28  
 D905,764 S \* 12/2020 Sinn ..... D15/28  
 D925,616 S \* 7/2021 Sinn ..... D15/29  
 2004/0010949 A1 1/2004 Laguarda et al.  
 2005/0050775 A1 3/2005 Clendenning et al.  
 2008/0028644 A1 2/2008 Almendros et al.  
 2011/0000109 A1 1/2011 Woerman et al.  
 2012/0131821 A1 5/2012 Brufau Guinovart et al.  
 2012/0260540 A1 10/2012 Guimaraes et al.  
 2012/0297649 A1 11/2012 Gomar  
 2013/0086825 A1 4/2013 Renski et al.  
 2013/0185964 A1 7/2013 Anisy et al.  
 2013/0333254 A1 12/2013 Wallis et al.  
 2014/0082976 A1 3/2014 Vicq et al.  
 2014/0173948 A1 6/2014 Ok et al.  
 2014/0259806 A1 9/2014 Rimmey  
 2014/0259808 A1 9/2014 LaHood et al.  
 2014/0352182 A1 12/2014 LaHood et al.  
 2015/0167278 A1 6/2015 Rivera et al.  
 2016/0083935 A1 3/2016 Edmonds  
 2016/0160475 A1 6/2016 Kunz  
 2017/0328036 A1 11/2017 Bilal et al.  
 2017/0328038 A1 11/2017 Campomanes et al.  
 2018/0080200 A1 3/2018 Hughes  
 2018/0171601 A1 6/2018 Serrurier et al.  
 2020/0157765 A1 5/2020 Sinn et al.  
 2020/0157776 A1 5/2020 Sinn et al.  
 2020/0157777 A1 5/2020 Sinn et al.  
 2020/0157778 A1 5/2020 Sinn et al.  
 2020/0157779 A1 5/2020 Sinn et al.  
 2020/0157780 A1 5/2020 Sinn et al.  
 2020/0340216 A1 10/2020 McCaffrey et al.  
 2020/0340217 A1 10/2020 McCaffrey et al.  
 2020/0340218 A1 10/2020 Wells et al.  
 2020/0340219 A1 10/2020 Wells et al.

FOREIGN PATENT DOCUMENTS

AU 340513 1/2012  
 AU 201914830 10/2019  
 BR 302019004076-0 10/2019  
 BR 302019004081-6 10/2019  
 CL 2068-1995 10/1996  
 CL 391-1998 11/1998  
 CL 1193-1999 9/1999  
 CL 223-1999 11/1999  
 CL 1457-1999 11/1999  
 CL 1583-1999 6/2000  
 CL 2671-2005 7/2006  
 CL 3115-2005 9/2006

CL 3116-2005 9/2006  
 CL 173-2008 8/2008  
 CL 174-2008 8/2008  
 CL 2524-2008 1/2009  
 CL 1764-2008 7/2009  
 CL 618-2010 11/2010  
 CL 739-2010 12/2010  
 CL 291-2012 11/2012  
 CN 3462432 7/2005  
 CN ZL201930443214.X 4/2020  
 CN ZL201930443291.5 4/2020  
 EM 000089099-0001-0003 10/2003  
 EM 000877477-0001-0009 1/2008  
 EM 000895396-0001-0015 3/2008  
 EM 004427623-0001 11/2017  
 EM 006816690-0001 9/2019  
 EM 006817730-0001 9/2019  
 EP 0 411 486 A1 2/1991  
 EP 1 174 547 B1 8/2006  
 EP 2 011 927 A2 1/2009  
 GB 1049195 3/1988  
 GB 1050103 4/1988  
 GB 2010025 4/1990  
 GB 2010026 4/1990  
 GB 2057051 12/1995  
 GB 2057052 12/1995  
 GB 2057053 12/1995  
 GB 2060104 4/1996  
 GB 2060105 4/1996  
 GB 2057055 5/1996  
 GB 2091441 10/1999  
 GB 2091502 10/1999  
 GB 2095654 3/2000  
 GB 2097590 3/2000  
 GB 2097591 4/2000  
 GB 2097592 4/2000  
 GB 2097593 5/2000  
 GB 2104929 3/2001  
 GB 2106421 4/2001  
 ID A00201902880 8/2020  
 ID A00201902881 8/2020  
 IN 320721-001 9/2019  
 IN 320630-002 8/2020  
 MX f/2010/002478 11/2019  
 MX f/2019/002480 11/2019  
 PE 5609 12/2019  
 PE 5611 12/2019  
 RU 106076 12/2017  
 RU 121029 8/2020  
 RU 121031 8/2020  
 WO 2015/165505 11/2015

OTHER PUBLICATIONS

Caterpillar Inc., "Cat Backhoe Loader Options," published Jan. 1, 2005.  
 Caterpillar Inc., Cat® Advansys™ Tips and Adapters, brochure (4 pages), 2017.  
 U.S. Appl. No. 29/682,763, titled "Adapter for a Ground Engaging Machine Implement", filed Mar. 7, 2019. (Unpublished).  
 U.S. Appl. No. 61/545,107, filed Oct. 7, 2011 (unpublished).  
 U.S. Appl. No. 29/743,807, filed Jun. 24, 2020 (unpublished).  
 U.S. Appl. No. 29/744,293, filed Jul. 28, 2020 (unpublished).  
 U.S. Appl. No. 16/951,186, filed Nov. 18, 2020 (unpublished).  
 U.S. Appl. No. 16/951,231, filed Nov. 18, 2020 (unpublished).  
 U.S. Appl. No. 16/951,630, filed Nov. 18, 2020 (unpublished).  
 U.S. Appl. No. 29/758,758, filed Nov. 18, 2020 (unpublished).

\* cited by examiner

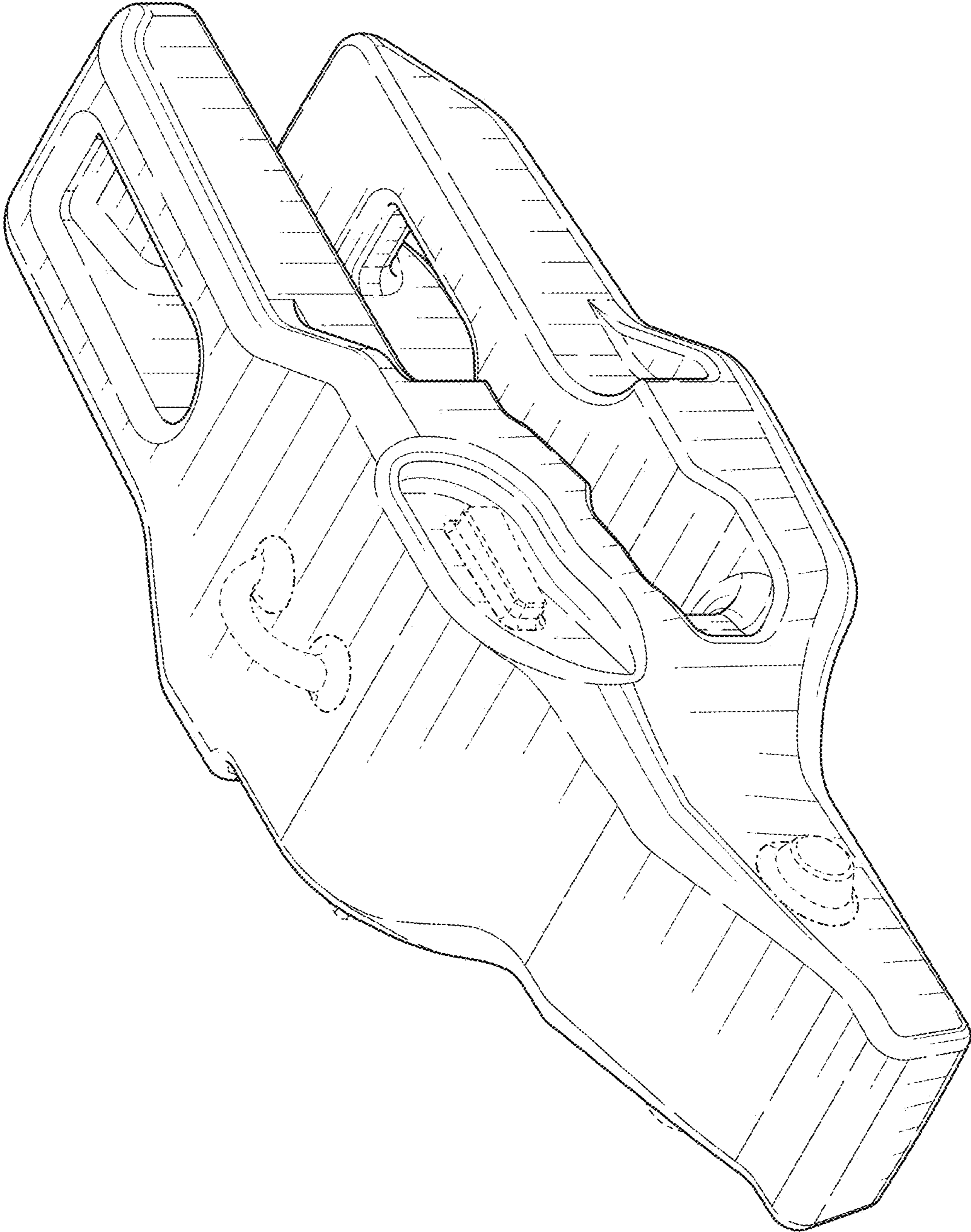


FIG. 1

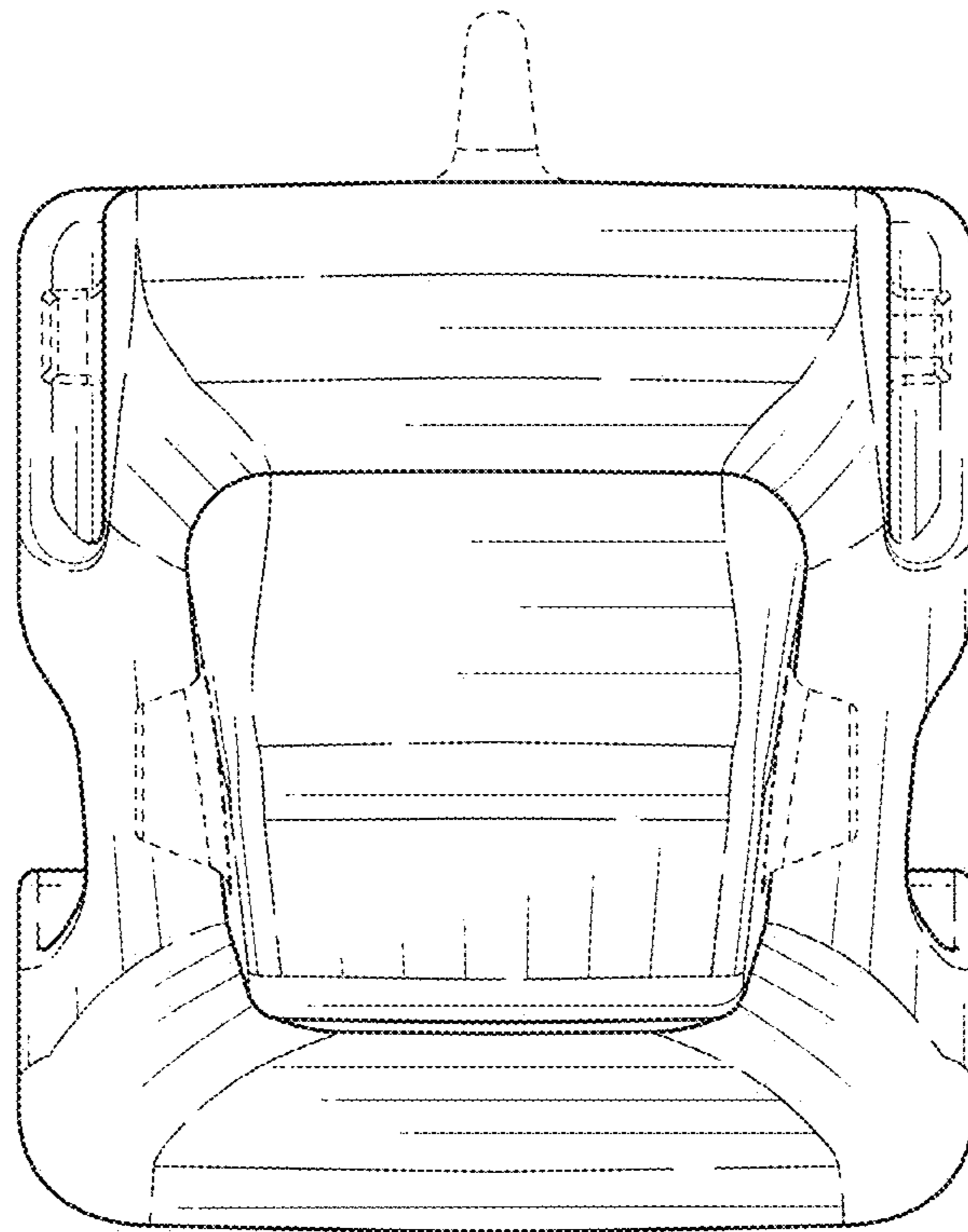


FIG. 2

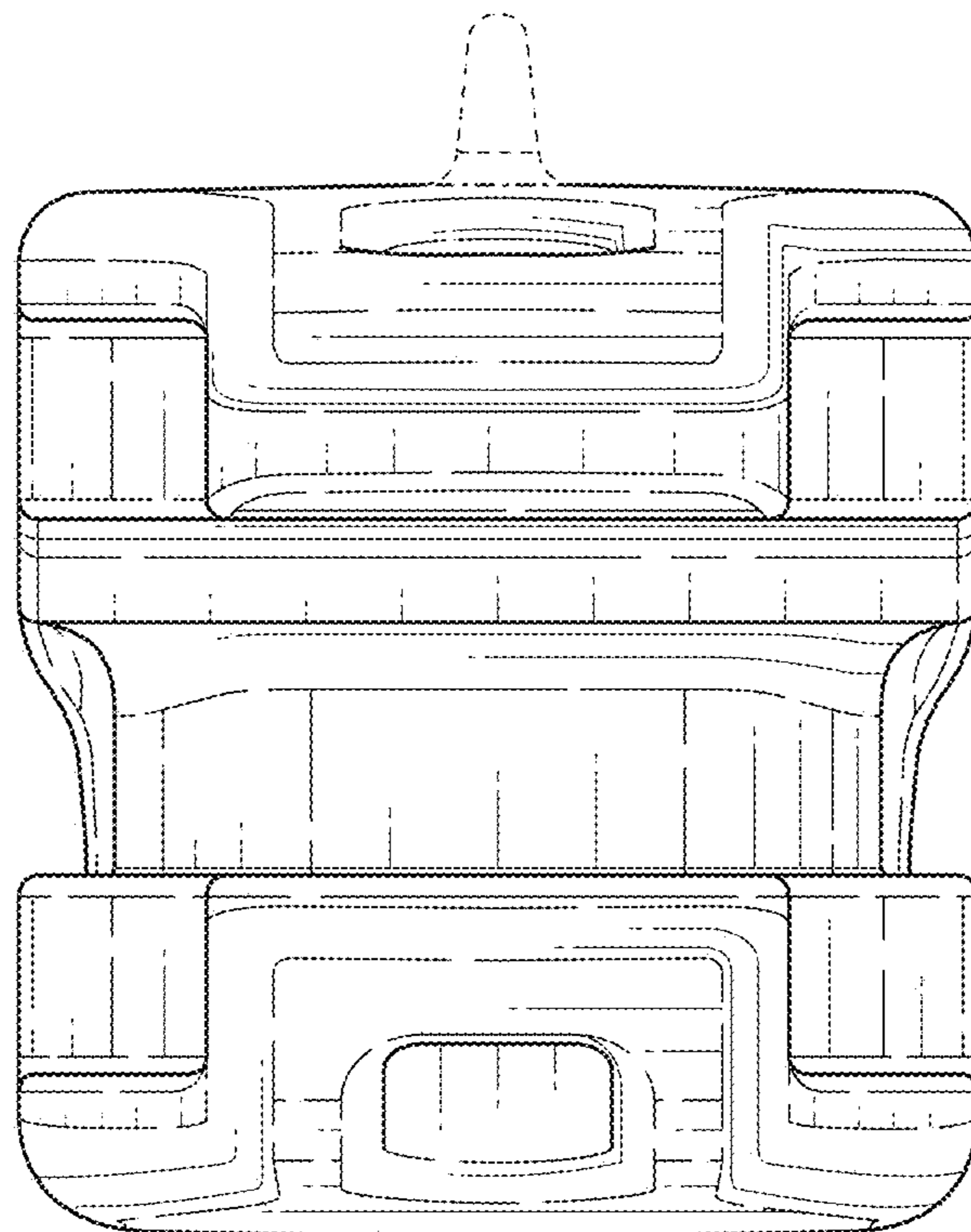


FIG. 3

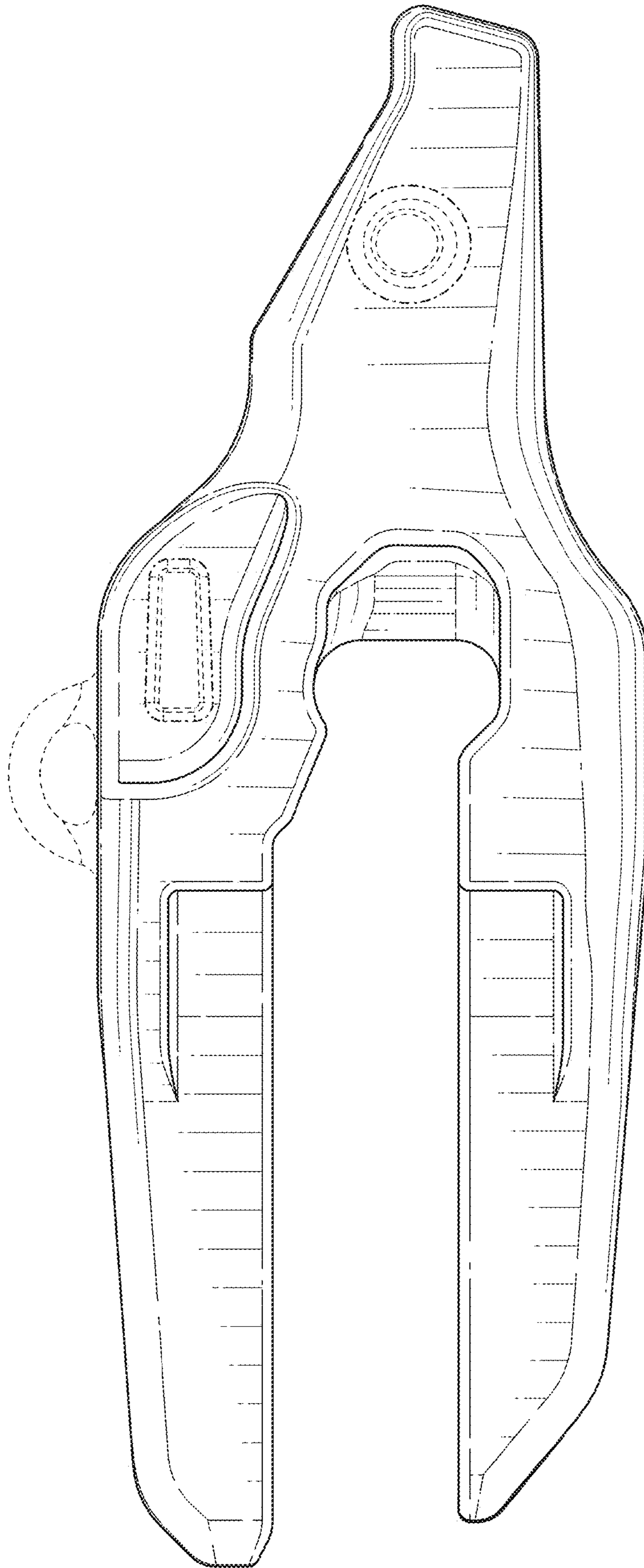


FIG. 4

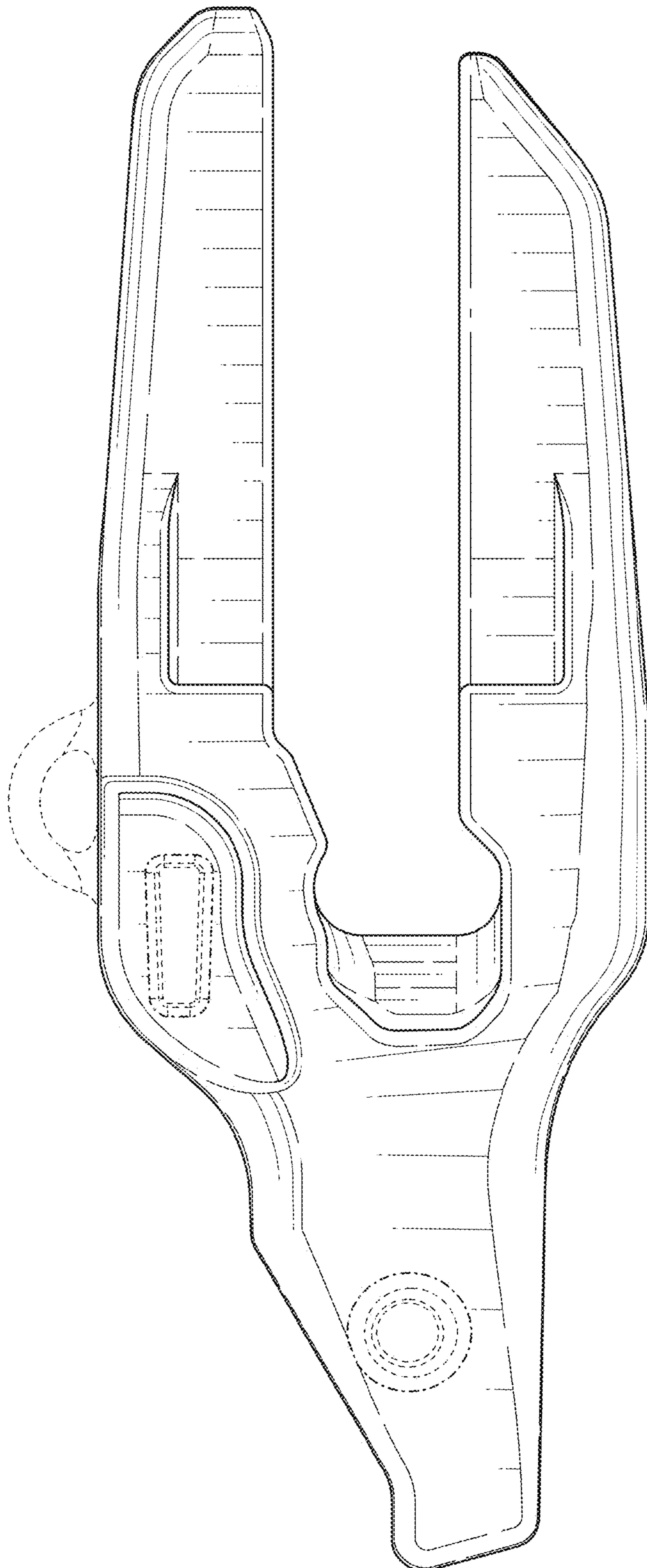


FIG. 5

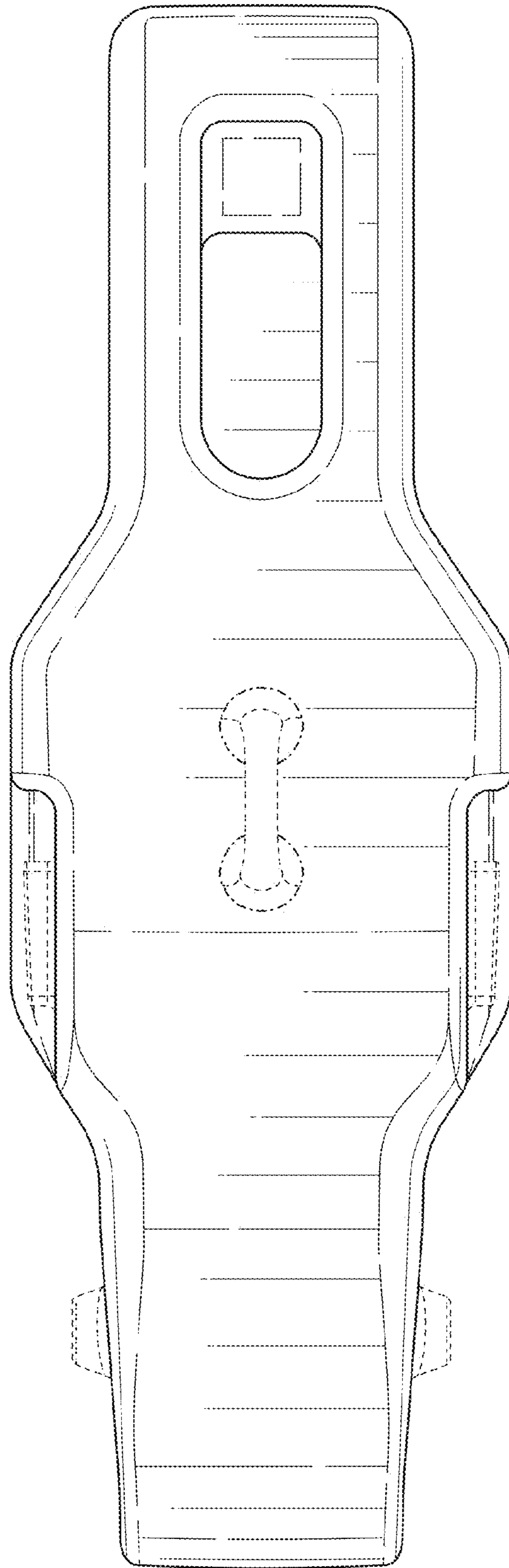


FIG. 6



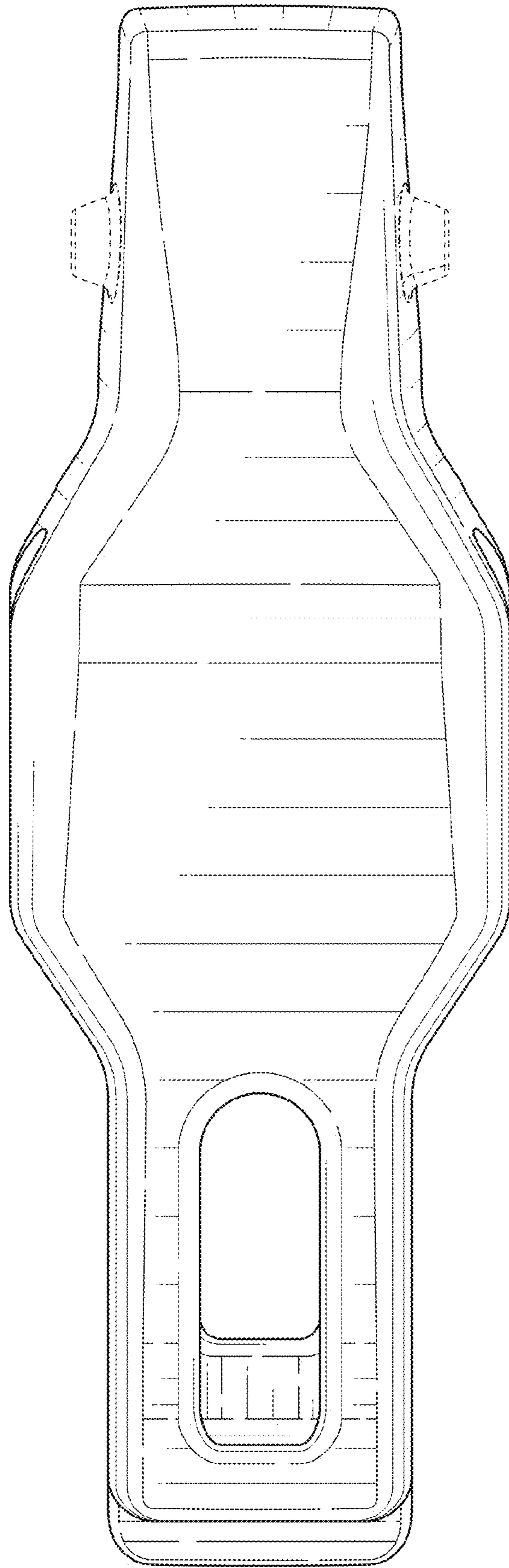


FIG. 7