



US00D984880S

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

(10) **Patent No.:** **US D984,880 S**

(45) **Date of Patent:** **** May 2, 2023**

(54) **CLAMP WITH INDICATOR**

(71) Applicant: **Medical Components, Inc.**,
Harleysville, PA (US)

(72) Inventors: **John William Timko**, Rochester, MI
(US); **Mark Steven Fisher**, Sellersville,
PA (US)

(73) Assignee: **Medical Components, Inc.**,
Harleysville, PA (US)

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

(21) Appl. No.: **29/757,504**

(22) Filed: **Nov. 6, 2020**

(51) **LOC (14) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/128**

(58) **Field of Classification Search**
USPC D8/349, 352, 382, 72, 394, 395, 396, 73,
D8/383, 323, 306, 325, 16; D10/31, 33,
D10/38; D16/242, 245; D24/128, 129,
D24/143

CPC A61M 39/06; A61M 1/1621; A61M 39/10;
A61M 1/3661; A61M 39/28; A61M
1/285; A61M 2039/062; A61M
2039/0673; A61M 2205/6081; A61M
2025/0031; A61M 2205/3334; A61M
2205/582; A61M 2205/584; A61M
2205/583

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,972,779 A 2/1961 Cowley
3,434,691 A 3/1969 Hamilton
3,906,932 A 9/1975 Ayres
3,965,901 A 6/1976 Penny et al.
4,134,402 A 1/1979 Mahurkar

4,403,983 A 9/1983 Edelman et al.
4,423,740 A 1/1984 Castle et al.
4,639,246 A 1/1987 Dudley
(Continued)

FOREIGN PATENT DOCUMENTS

EP 2168611 3/2010
JP D1678403 * 1/2022 A61M 1/1621
(Continued)

OTHER PUBLICATIONS

High Flow Catheter, Google.com, [online], [site visited Jul. 8,
2022], Available from internet URL: <https://cardiomed.com/catalog/radiology/highflow-catheter/> (Year: NA).
(Continued)

Primary Examiner — Michael A. Pratt

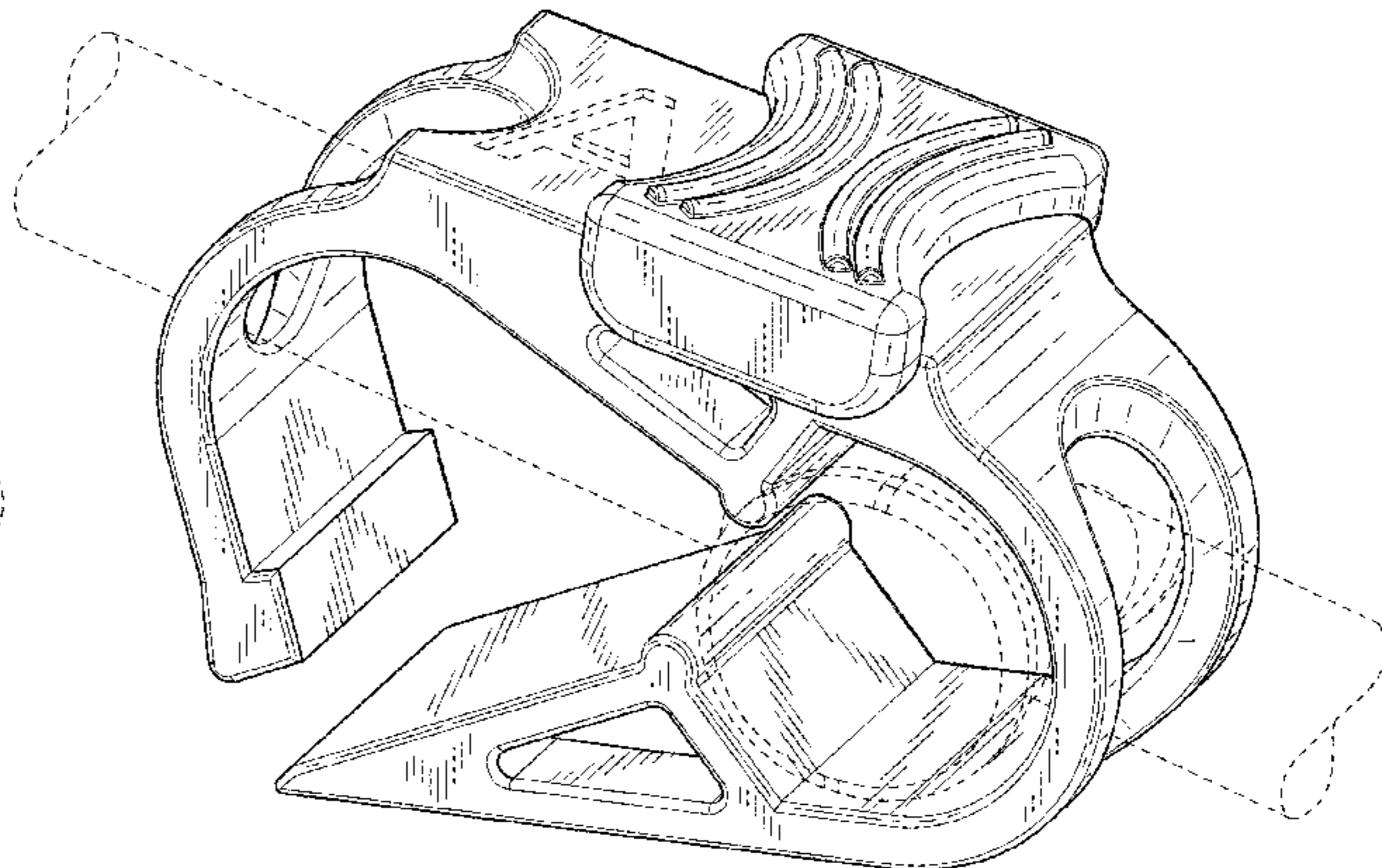
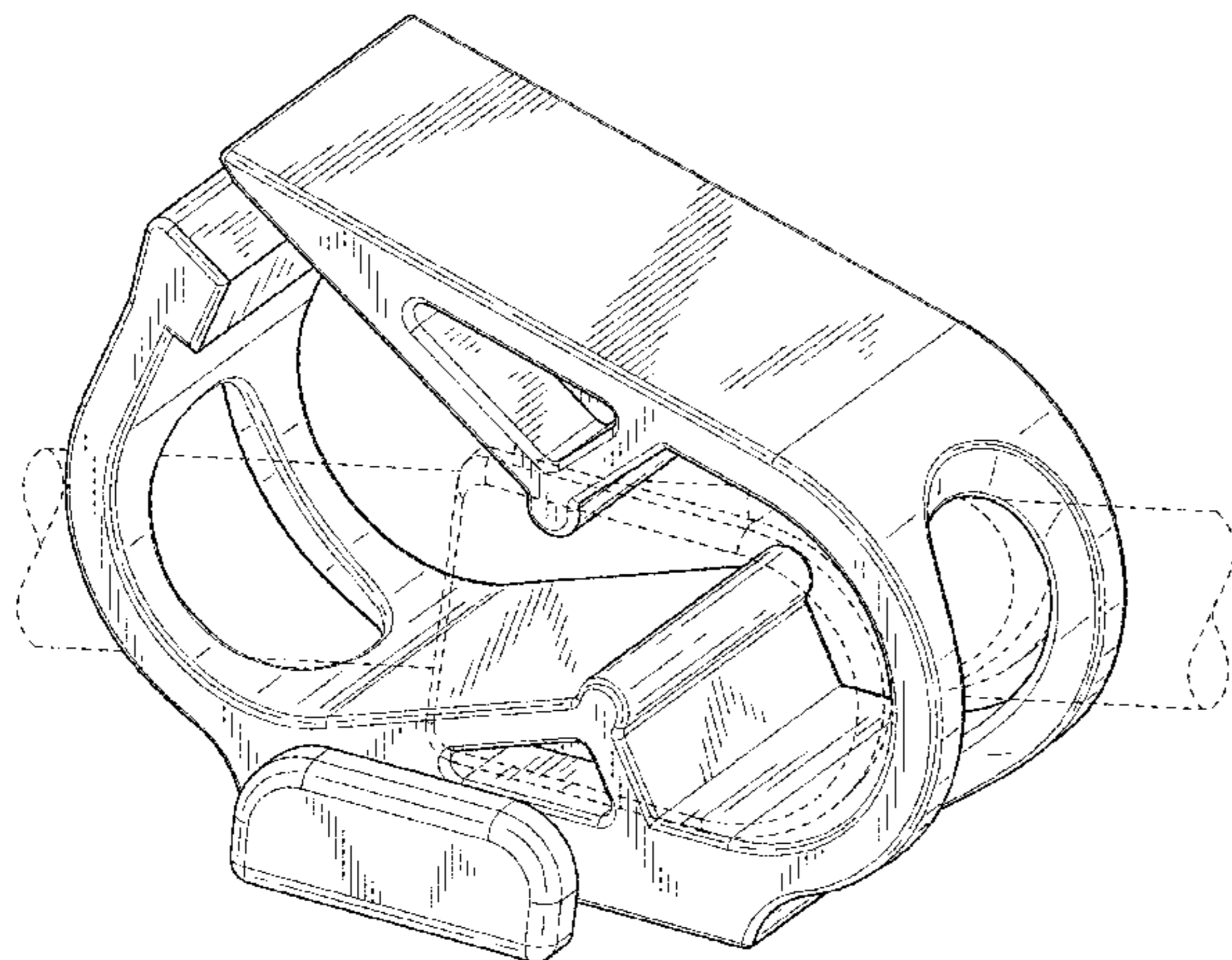
(57) **CLAIM**

The ornamental design for a clamp with indicator, as shown
and described.

DESCRIPTION

FIG. 1 is a perspective view of a clamp with indicator,
wherein a slide is shown in a first position;
FIG. 2 is a front view thereof;
FIG. 3 is a rear view thereof;
FIG. 4 is a right-hand side view thereof;
FIG. 5 is a left-hand side view thereof;
FIG. 6 is a top view thereof;
FIG. 7 is a bottom view thereof;
FIG. 8 is an alternative perspective view of the clamp with
indicator; and,
FIG. 9 is a perspective view of the clamp with indicator as
shown in FIG. 1, wherein the slide is shown in an alternative
position.
The broken line showing of an IV tube is included for the
purpose of illustrating environment and forms no part of the
claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

4,692,141 A	9/1987	Mahurkar		7,776,005 B2	8/2010	Haggstrom et al.	
D298,216 S *	10/1988	Eisenberg	D24/129	D637,712 S *	5/2011	Chau	D24/129
4,895,561 A	1/1990	Mahurkar		D640,788 S	6/2011	Appling	
5,009,636 A	4/1991	Wortley et al.		8,007,488 B2	8/2011	Ravenscroft	
D318,123 S *	7/1991	Yokoyama	D24/129	8,021,321 B2	9/2011	Zawacki	
5,035,399 A *	7/1991	Rantanen-Lee	A61M 39/283 251/4	8,052,659 B2	11/2011	Ravenscroft et al.	
5,112,301 A	5/1992	Fenton, Jr. et al.		8,066,660 B2	11/2011	Gregersen et al.	
5,147,332 A	9/1992	Moorehead		8,092,415 B2	1/2012	Moehle et al.	
5,190,520 A	3/1993	Fenton, Jr. et al.		8,123,892 B2	2/2012	Morris et al.	
5,195,962 A	3/1993	Martin et al.		D657,461 S	4/2012	Schembre et al.	
5,203,056 A *	4/1993	Funk	A61M 39/284 251/10	8,152,951 B2	4/2012	Zawacki et al.	
5,203,769 A	4/1993	Clement et al.		8,292,841 B2	10/2012	Gregersen	
5,209,723 A	5/1993	Twardowski et al.		D672,229 S *	12/2012	Reid	D8/396
5,254,106 A	10/1993	Feaster		8,323,227 B2	12/2012	Hamatake et al.	
5,324,274 A	6/1994	Martin		8,328,760 B2	12/2012	Lareau	
5,374,245 A	12/1994	Mahurkar		8,337,451 B2	12/2012	Lareau et al.	
5,395,316 A	3/1995	Martin		8,343,104 B2	1/2013	Martin et al.	
5,399,172 A	3/1995	Martin et al.		8,403,911 B2	3/2013	Adams et al.	
5,405,320 A	4/1995	Twardowski et al.		8,454,565 B2	6/2013	Braga et al.	
5,472,417 A	12/1995	Martin et al.		8,496,607 B2	7/2013	Feng et al.	
5,472,432 A	12/1995	Martin		8,496,629 B2	7/2013	McKinnon et al.	
5,486,159 A	1/1996	Mahurkar		8,500,939 B2	8/2013	Nimkar et al.	
5,531,673 A	7/1996	Helenowski		8,517,978 B2	8/2013	Clark	
5,536,261 A	7/1996	Stevens		D690,009 S	9/2013	Schembre et al.	
5,569,182 A	10/1996	Twardowski et al.		8,540,661 B2	9/2013	Gregersen	
5,685,867 A	11/1997	Twardowski et al.		RE44,639 E	12/2013	Squitieri	
5,693,030 A	12/1997	Lee et al.		D695,100 S *	12/2013	Whitaker	D8/396
5,797,869 A	8/1998	Martin et al.		8,636,682 B2	1/2014	Deshpande	
5,820,610 A	10/1998	Baudino		D700,835 S *	3/2014	Langlois	D8/396
5,830,196 A	11/1998	Hicks		8,679,091 B2	3/2014	Morris et al.	
5,961,486 A	10/1999	Twardowski et al.		8,696,614 B2	4/2014	Gregersen et al.	
5,976,114 A	11/1999	Jonkman et al.		8,747,343 B2	6/2014	MacMeans et al.	
6,096,798 A	8/2000	Luthra et al.		D709,203 S *	7/2014	Shikata	D8/349
6,102,884 A	8/2000	Squitieri		8,808,227 B2	8/2014	Zawacki et al.	
D431,650 S *	10/2000	Guala	D24/129	8,894,601 B2	11/2014	Moehle et al.	
6,206,849 B1	3/2001	Martin et al.		8,894,607 B2	11/2014	Barrett et al.	
6,406,687 B1	6/2002	Luthra et al.		8,920,404 B2	12/2014	Difiore et al.	
6,409,700 B1	6/2002	Siegel, Jr. et al.		9,005,154 B2	4/2015	Matson et al.	
6,447,488 B2	9/2002	Estabrook et al.		9,044,573 B2	6/2015	Ravenscroft et al.	
6,461,321 B1	10/2002	Quinn		9,056,183 B2	6/2015	Deshpande	
6,540,714 B1	4/2003	Quinn		D736,916 S	8/2015	Appling et al.	
6,551,291 B1	4/2003	de Juan, Jr et al.		9,138,567 B2	9/2015	Pruitt et al.	
6,582,409 B1	6/2003	Squitieri		9,155,862 B2	10/2015	Bellisario et al.	
6,702,776 B2	3/2004	Quinn		9,168,355 B2	10/2015	Braga	
6,712,797 B1	3/2004	Southern, Jr.		9,174,019 B2	11/2015	Gregersen	
6,758,836 B2	7/2004	Zawacki		9,192,710 B2	11/2015	Feng et al.	
6,786,884 B1	9/2004	DeCant, Jr. et al.		D748,252 S	1/2016	King et al.	
6,969,373 B2	11/2005	Schwartz et al.		9,233,200 B2	1/2016	Gregersen et al.	
7,034,061 B1	4/2006	Luthra et al.		9,238,122 B2	1/2016	Malhi et al.	
7,056,286 B2	6/2006	Ravenscroft et al.		9,248,253 B2	2/2016	Melsheimer et al.	
7,090,654 B2	8/2006	Lotito et al.		9,333,321 B2	5/2016	Clark	
7,141,035 B2	11/2006	Haggstrom		9,387,304 B2	7/2016	Zawacki et al.	
D537,334 S *	2/2007	Lee	D8/396	9,399,112 B2	7/2016	Shevgoor et al.	
7,182,746 B2	2/2007	Aaarala et al.		D767,127 S	9/2016	de Beer	
D540,467 S	4/2007	Mori		9,463,300 B2	10/2016	Pruitt et al.	
D541,936 S	5/2007	Patterson		9,526,861 B2	12/2016	Bellisario et al.	
7,211,074 B2	5/2007	Sansoucy		9,579,485 B2	2/2017	Oborn et al.	
7,229,429 B2	6/2007	Martin et al.		D783,813 S *	4/2017	Duncan	D24/128
D550,839 S	9/2007	Zawacki et al.		9,610,422 B2	4/2017	Moehle et al.	
7,320,674 B2	1/2008	Ruddell et al.		9,642,962 B2	5/2017	Matson et al.	
7,322,953 B2	1/2008	Redinger		9,656,041 B2	5/2017	Hamatake et al.	
7,393,339 B2	7/2008	Zawacki et al.		9,687,269 B2	6/2017	Parent	
D580,262 S *	11/2008	Eason	F16B 7/0493 D17/22	9,713,694 B2	7/2017	Braga et al.	
D581,529 S	11/2008	Moehle et al.		10,004,842 B2	6/2018	Ravenscroft et al.	
D584,604 S *	1/2009	Baldwin	D8/396	D865,881 S *	11/2019	Muir	D21/694
7,485,107 B2	2/2009	DiFiore et al.		D871,309 S *	12/2019	Adler	D12/408
7,569,029 B2	8/2009	Clark		D884,885 S *	5/2020	Hu	D24/128
D603,044 S	10/2009	Appling et al.		D905,805 S *	12/2020	Muir	D21/694
7,655,000 B2	2/2010	Walls et al.		D908,871 S *	1/2021	Hu	D24/128
RE41,448 E	7/2010	Squitieri		D909,843 S *	2/2021	Van Hulst	D8/72
D619,711 S *	7/2010	Lombardo	D8/395	D909,844 S *	2/2021	Van Hulst	D8/72
7,749,185 B2	7/2010	Wilson et al.		D917,272 S *	4/2021	Ripert	D8/396
				D921,887 S *	6/2021	Hu	D24/143
				D942,247 S *	2/2022	Laaksonen	D8/354
				D948,304 S *	4/2022	Van Hulst	D8/72
				D948,981 S *	4/2022	Van Hulst	D8/72
				11,291,476 B2 *	4/2022	Riccione	A61B 17/6433
				2003/0144623 A1	7/2003	Heath et al.	
				2004/0006318 A1	1/2004	Periakaruppan et al.	

(56)

References Cited

U.S. PATENT DOCUMENTS

2004/0006331 A1 1/2004 Shchervinsky
 2004/0116844 A1 6/2004 Takahashi et al.
 2004/0193102 A1 9/2004 Haggstrom
 2004/0193119 A1 9/2004 Canaud et al.
 2005/0027282 A1 2/2005 Schweikert et al.
 2005/0033222 A1 2/2005 Haggstrom et al.
 2005/0033264 A1 2/2005 Redinger
 2005/0043682 A1 2/2005 Kucklick et al.
 2005/0070842 A1 3/2005 Lotito et al.
 2005/0182352 A1 8/2005 DiMatteo et al.
 2005/0197633 A1 9/2005 Schwartz et al.
 2005/0228364 A1 10/2005 Braga
 2005/0267400 A1 12/2005 Haarala et al.
 2006/0004316 A1 1/2006 Difiore et al.
 2006/0004324 A1 1/2006 Ruddell et al.
 2006/0009783 A1 1/2006 Rome et al.
 2006/0015086 A1 1/2006 Rasmussen et al.
 2006/0064159 A1 3/2006 Porter et al.
 2006/0100872 A1 5/2006 Yokoi
 2006/0189922 A1 8/2006 Amarasinghe et al.
 2007/0049787 A1 3/2007 Nose et al.
 2007/0060888 A1 3/2007 Goff et al.
 2007/0078437 A1 4/2007 Borden et al.
 2007/0123811 A1 5/2007 Squitieri
 2008/0082079 A1 4/2008 Braga et al.
 2008/0082080 A1 4/2008 Braga
 2009/0005762 A1 1/2009 Nishtala et al.
 2009/0093748 A1 4/2009 Patterson et al.
 2009/0112153 A1 4/2009 Gregersen et al.
 2009/0118661 A1 5/2009 Moehle et al.
 2009/0137944 A1 5/2009 Haarala et al.
 2009/0187141 A1 7/2009 Lareau et al.
 2009/0216174 A1 8/2009 Nardeo
 2010/0063512 A1 3/2010 Braga et al.
 2010/0200715 A1* 8/2010 Kuipers F16M 11/041
 248/220.21
 2011/0015559 A1 1/2011 McGuckin, Jr. et al.
 2011/0077577 A1 3/2011 Sansoucy
 2011/0130745 A1 6/2011 Shevgoor et al.
 2011/0137225 A1 6/2011 Feng et al.
 2011/0144620 A1 6/2011 Tal
 2011/0172642 A1 7/2011 Lareau
 2011/0196190 A1 8/2011 Farnan et al.
 2011/0213291 A1 9/2011 Quinn
 2011/0214656 A1 9/2011 Saunders
 2013/0053763 A1 2/2013 Makino et al.
 2013/0085438 A1 4/2013 MacMeans et al.
 2013/0085477 A1 4/2013 Deshpande
 2013/0253445 A1 9/2013 Nimkar et al.
 2013/0289532 A1 10/2013 McKinnon et al.
 2014/0012209 A1 1/2014 Sansoucy
 2014/0018772 A1 1/2014 Ash

2014/0316382 A1 10/2014 Morris et al.
 2015/0306302 A1 10/2015 Marsden et al.
 2016/0051745 A1 2/2016 Gregersen
 2016/0114093 A1 4/2016 Ravenscroft et al.
 2016/0121040 A1 5/2016 Gregersen et al.
 2016/0128715 A1 5/2016 Malhi et al.
 2016/0250441 A1 9/2016 Clark
 2016/0325072 A1 11/2016 Shevgoor et al.
 2017/0035987 A1 2/2017 Ardehali
 2017/0100560 A1 4/2017 Bellisario et al.
 2017/0165453 A1 6/2017 Oborn et al.
 2017/0326339 A1* 11/2017 Bailey A61M 25/02
 2018/0169382 A1 6/2018 Palko et al.
 2019/0275300 A1* 9/2019 Rosenberg A61M 25/02
 2019/0321616 A1* 10/2019 Akahori A61M 39/10
 2020/0289735 A1* 9/2020 Timko A61M 39/06
 2021/0095797 A1* 4/2021 Marakovits F16L 17/04

FOREIGN PATENT DOCUMENTS

WO 2009059220 A1 5/2009
 WO 2010146614 12/2010

OTHER PUBLICATIONS

Griggs, J. et al., "Thrombosis and Thromboembolism Associated with Intravascular Catheter Biomaterials", World Biomaterials Congress, Amsterdam, NL, May 2008, vol. 3, p. 1509, ISBN: 978-1-61567-080-2.
 Sukavaneshvar S., "Device thrombosis and pre-clinical blood flow models for assessing antithrombogenic efficacy of drug-device combinations," Advanced Drug Delivery Reviews (2017), 112, pp. 24-34.
 Sukavaneshvar, S., "Assessment and Management of Vascular Implant Thrombogenicity", in: Thrombus and Stroke, Informa Health Care (New York, NY), 2008, pp. 57-77.
 Lotito, M. et al., "Thromboresistance Provided by a Heparin Coating on the Tai Palindrometm Emerald Hemodialysis Catheter," Abstract SA-P0054, J. Am. Soc. Nephrol (2006), 17, 1 pg.
 Dwyer, A. et al., "Surface Heparinization of Hemodialysis Catheters Reduces Thrombus and Fibrin Sheath Formation," ASDIN 2006, 1 pg.
 Smith, R.S. et al., "Vascular Catheters with a Nonleaching Polysulfobetaine Surface Modification Reduce Thrombus Formation and Microbial Attachment," Science Translational Medicine (Sep. 2012), 4:153, pp. 1-11.
 Vesely, T. et al., "Hemodialysis Catheter Tip Design: Observations on Fluid Flow and Recirculation" (2016), J. Vasc. Access, 17 (1), pp. 29-39.
 Robbins, el al., "Reverse Catheter Placement: A Moditication of the Blom-Singer Tracheoesophageal Puncture Technique," Journal of Otolaryngology, Jun. 1993 22(3), pp. 204-205.

* cited by examiner

FIG. 1

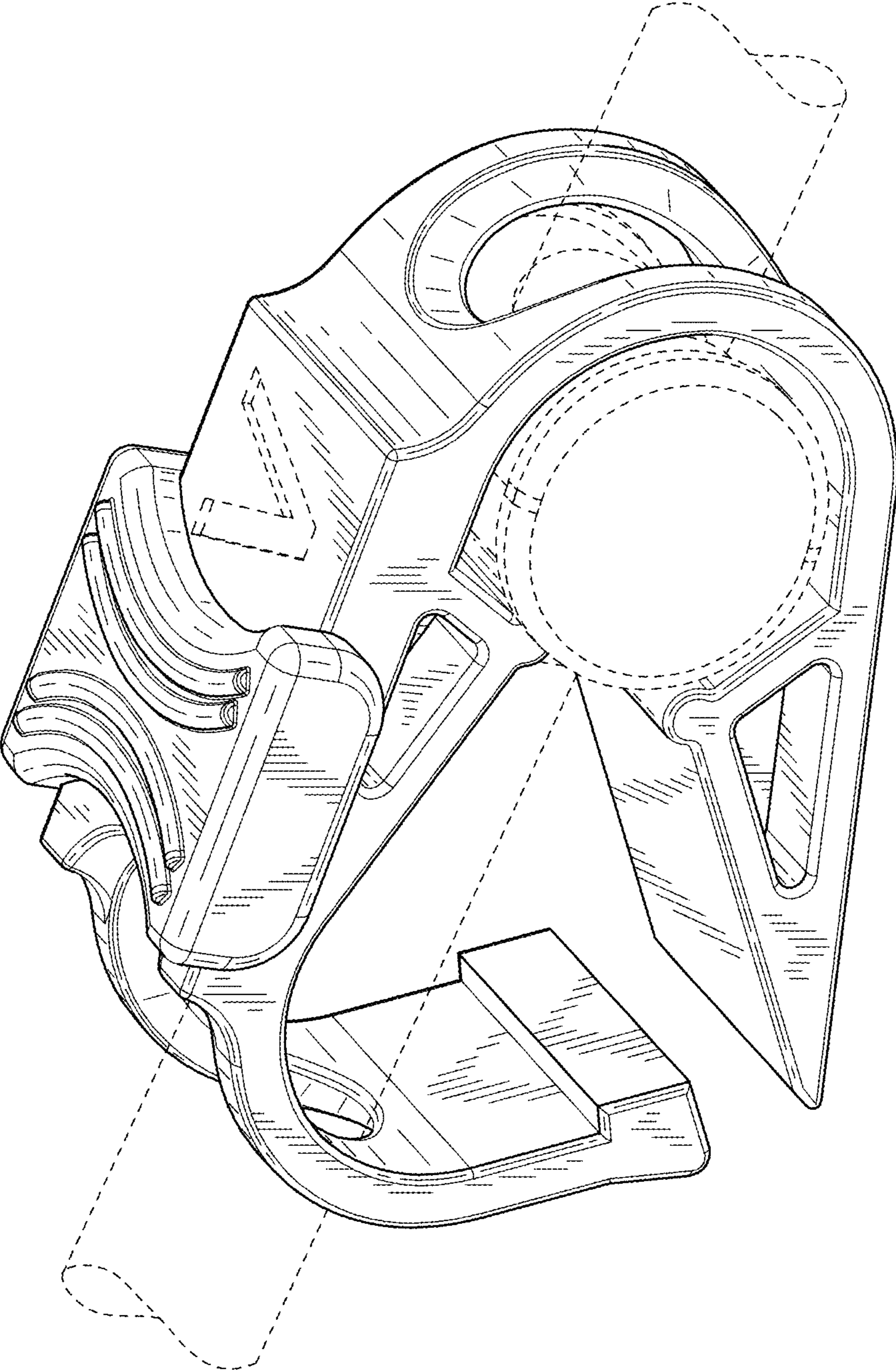


FIG. 3

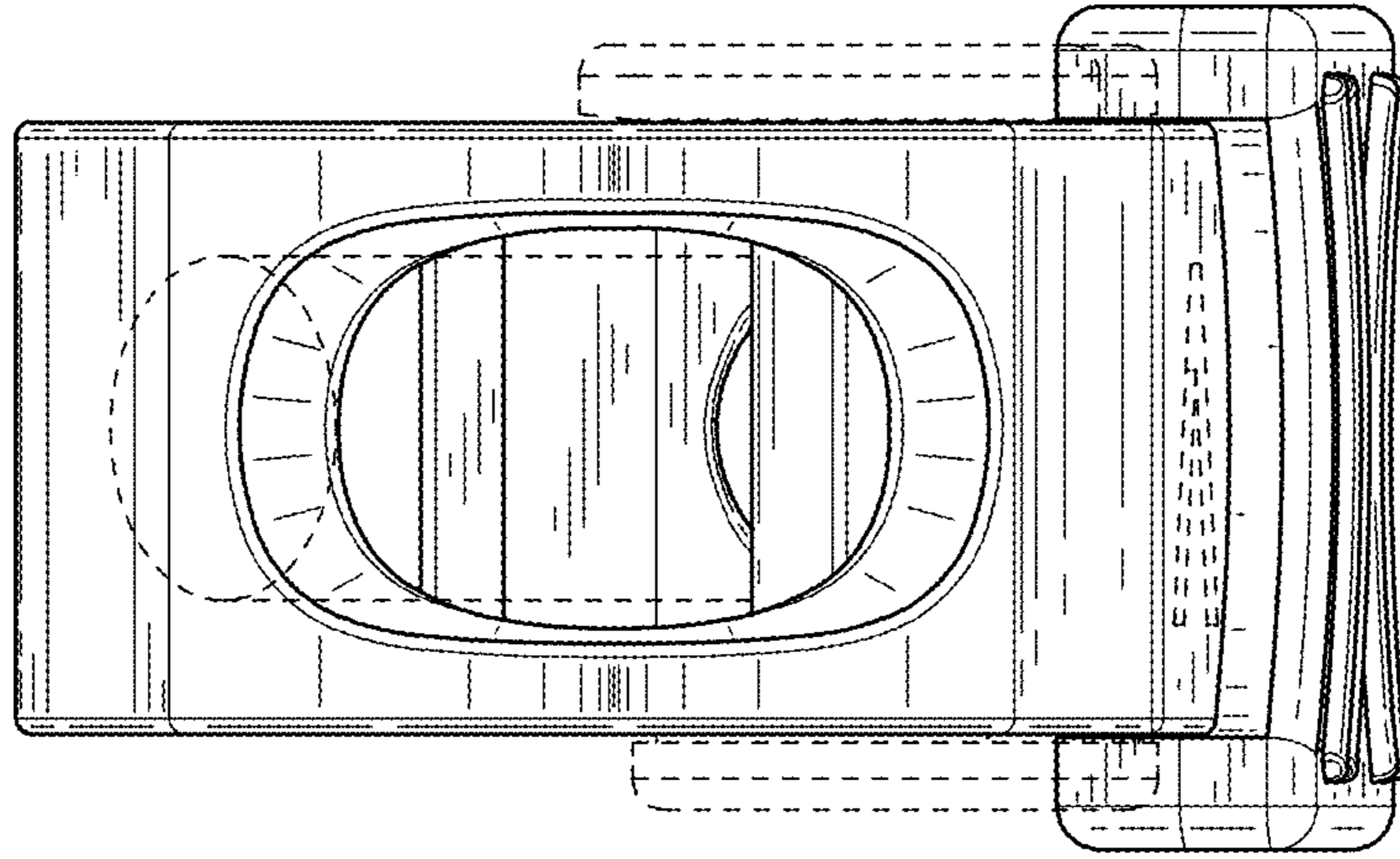


FIG. 2

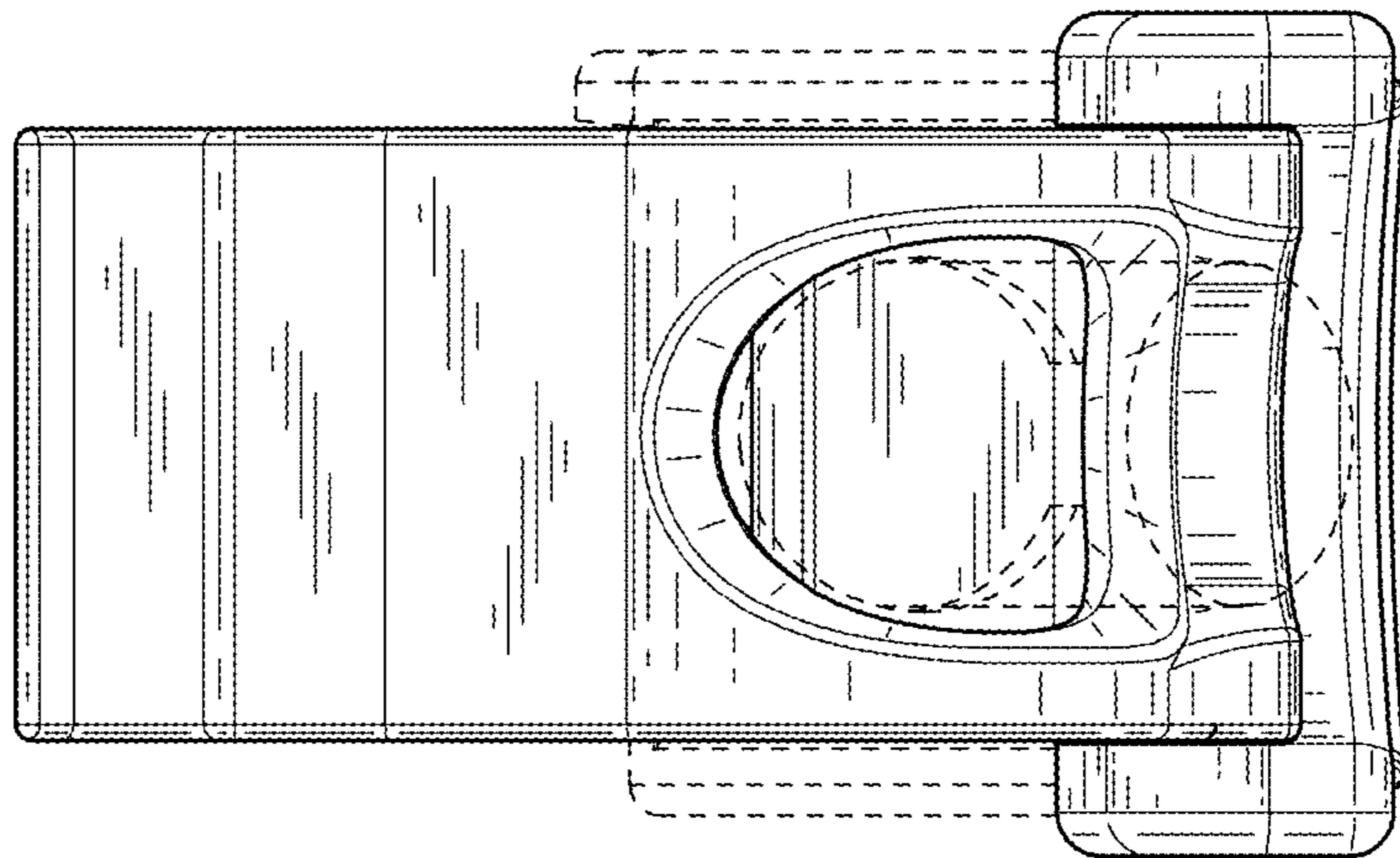


FIG. 4

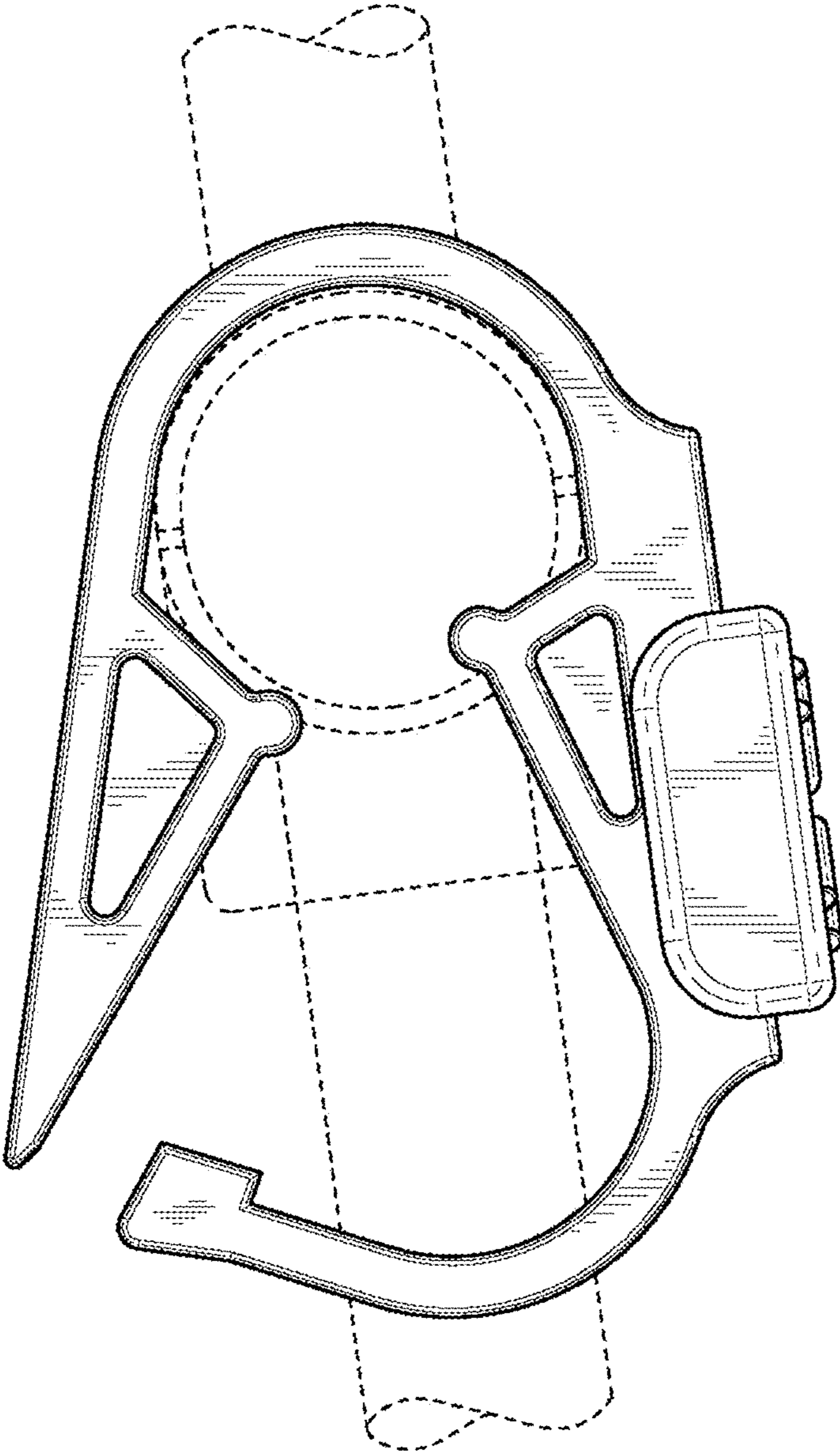


FIG. 5

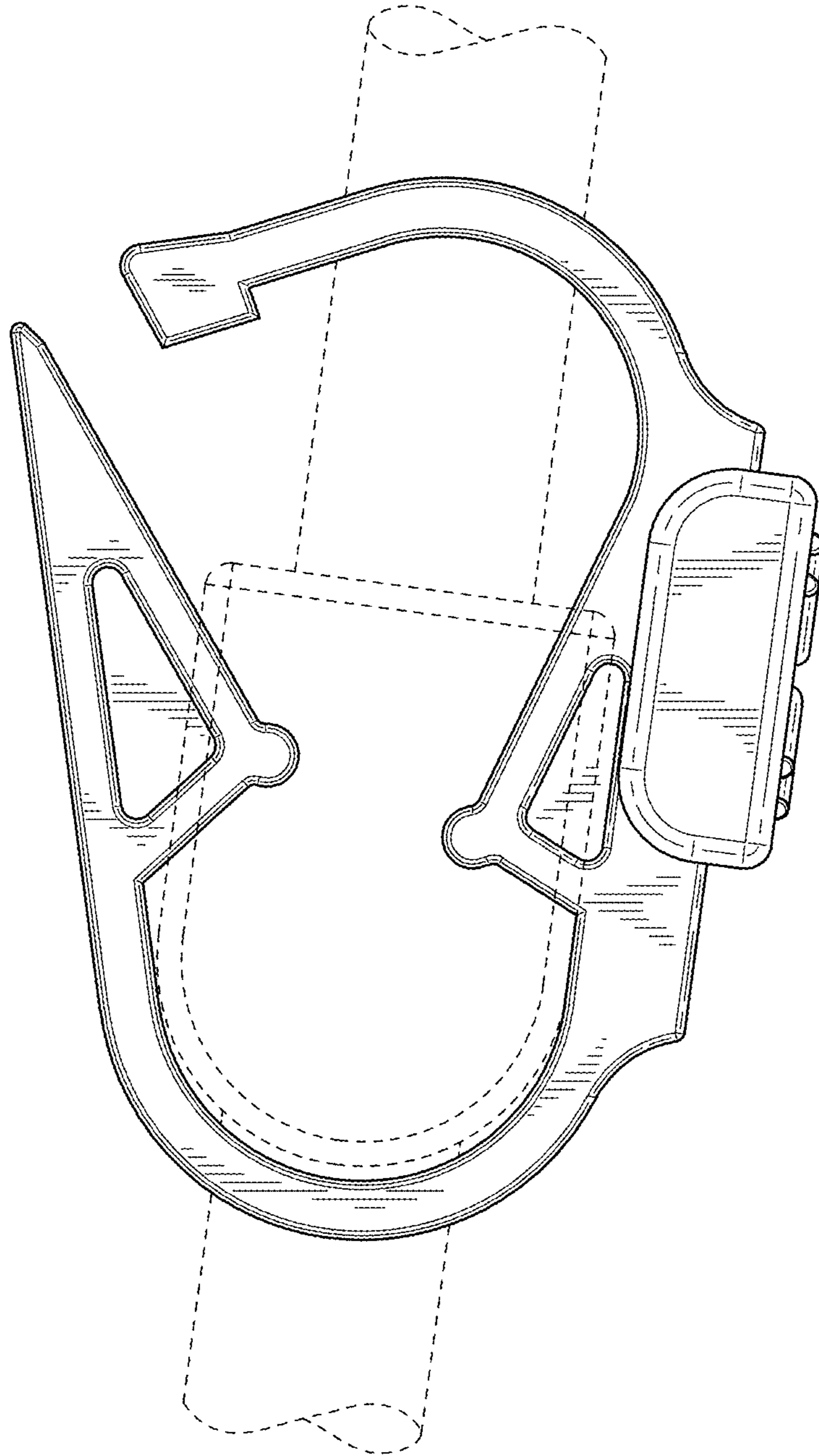


FIG. 6

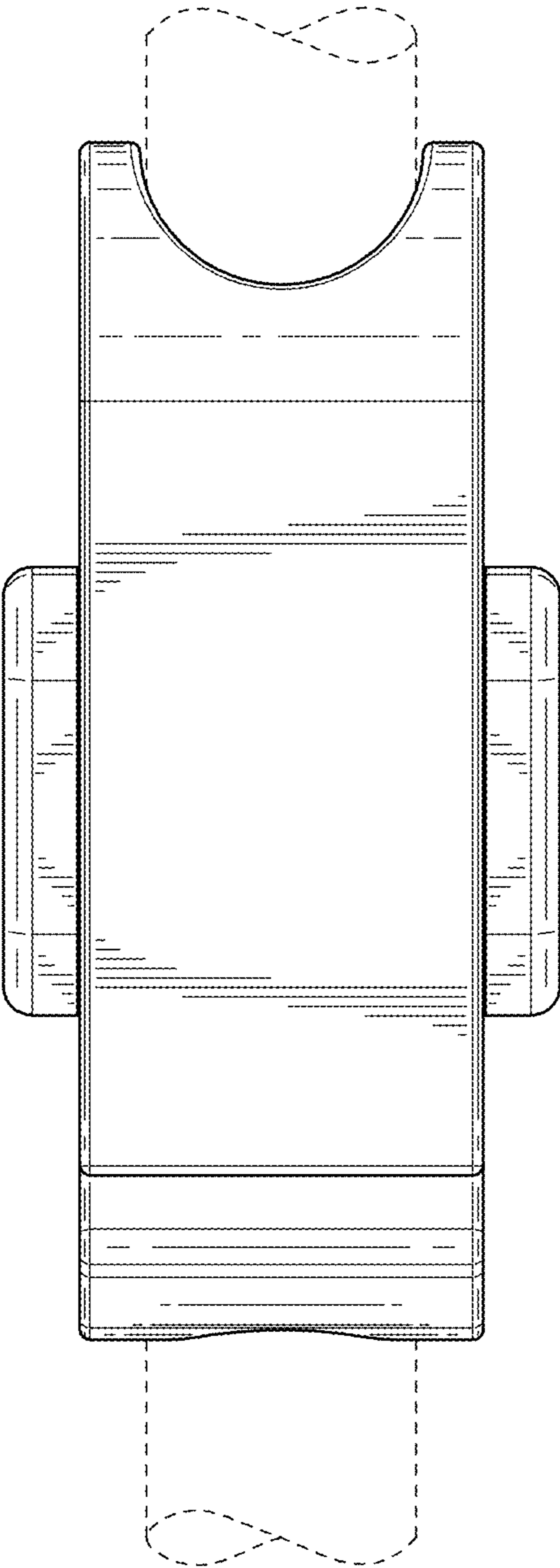


FIG. 7

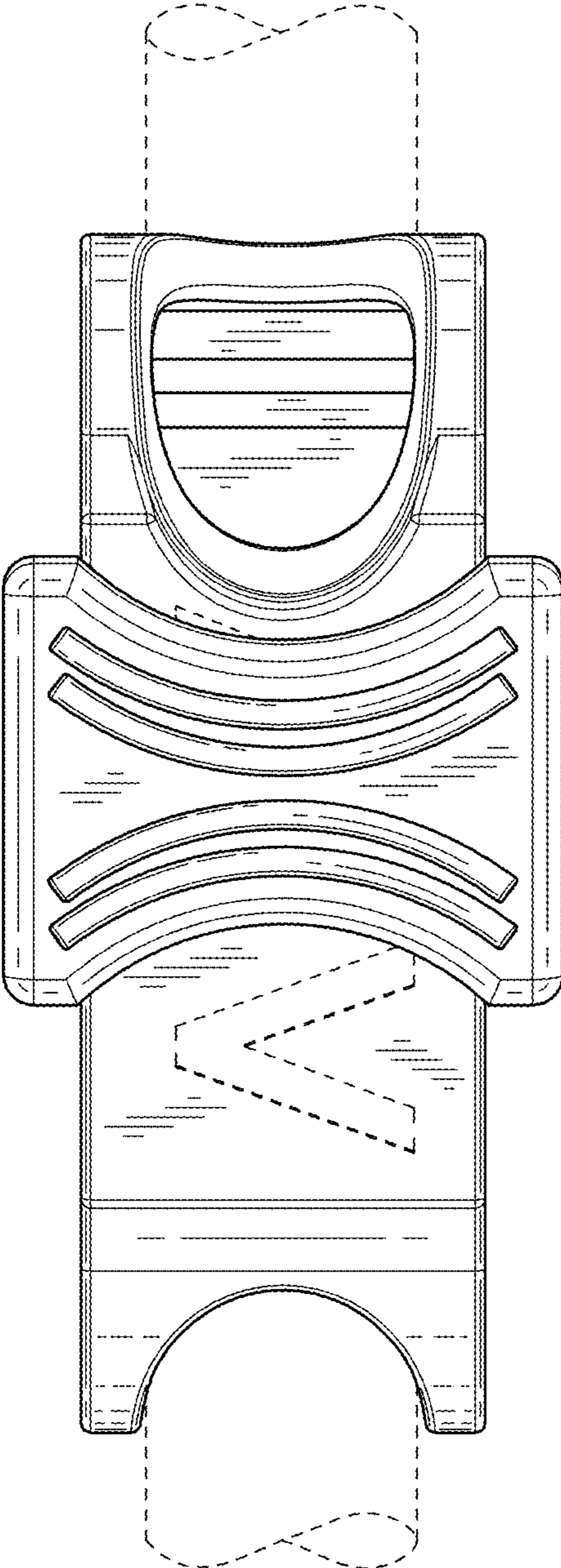


FIG. 8

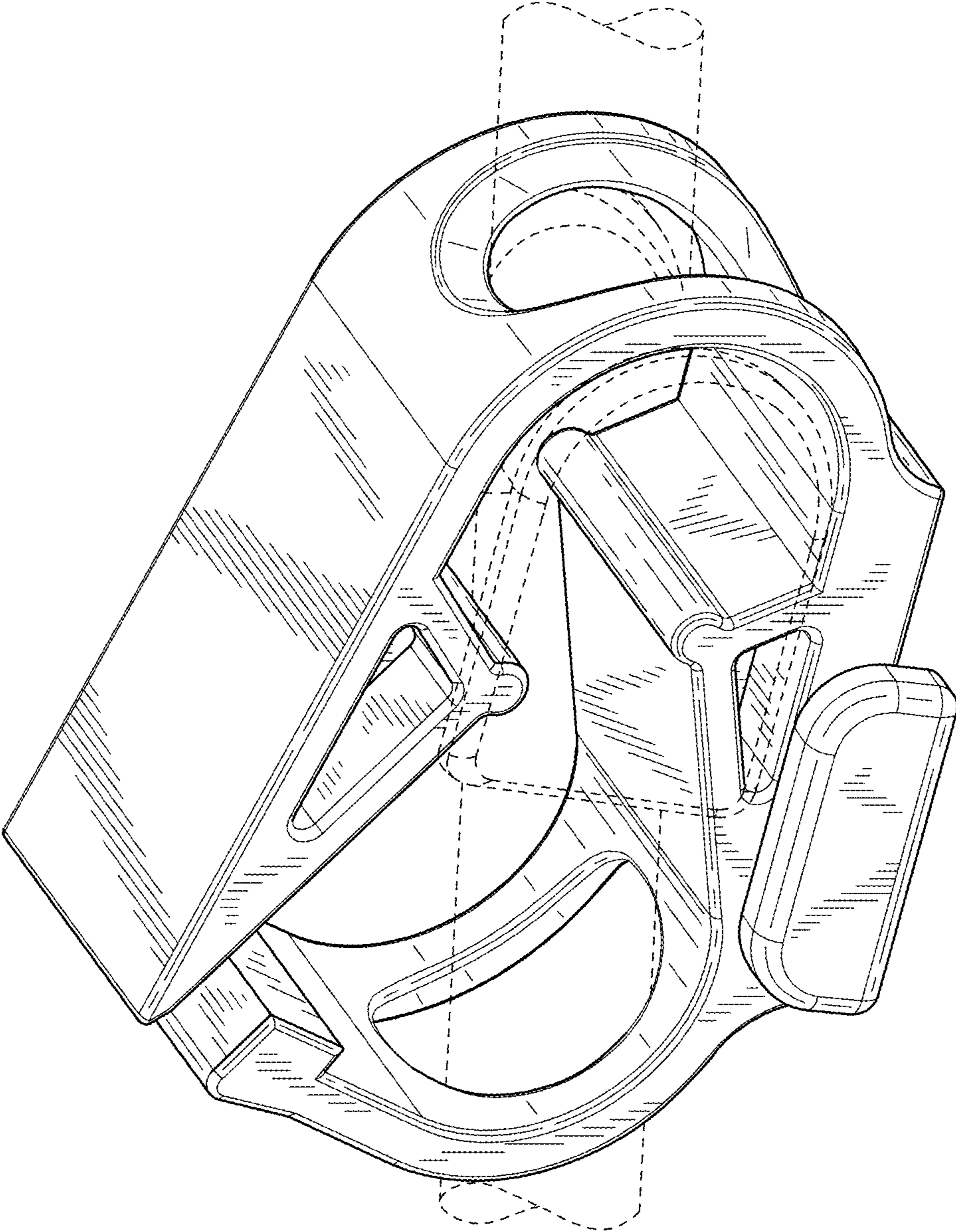


FIG. 9

