US00D961081S

(12) United States Design Patent

Sayger et al.

(10) Patent No.: US D961,081 S
(45) Date of Patent: ** Aug. 16, 2022

(54) **ORTHOPEDIC IMPLANT**

(71) Applicant: **CROSSROADS EXTREMITY SYSTEMS, LLC**, Memphis, TN (US)

(72) Inventors: **Daniel Sayger**, Southaven, MS (US); **Michael Chad Hollis**, Collierville, TN (US); **Vernon R. Hartdegen**, Collierville, TN (US)

(73) Assignee: **CROSSROADS EXTREMITY SYSTEMS, LLC**, Memphis, TN (US)

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

(21) Appl. No.: **29/758,800**

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

(51) **LOC (13) Cl.** **24-03**

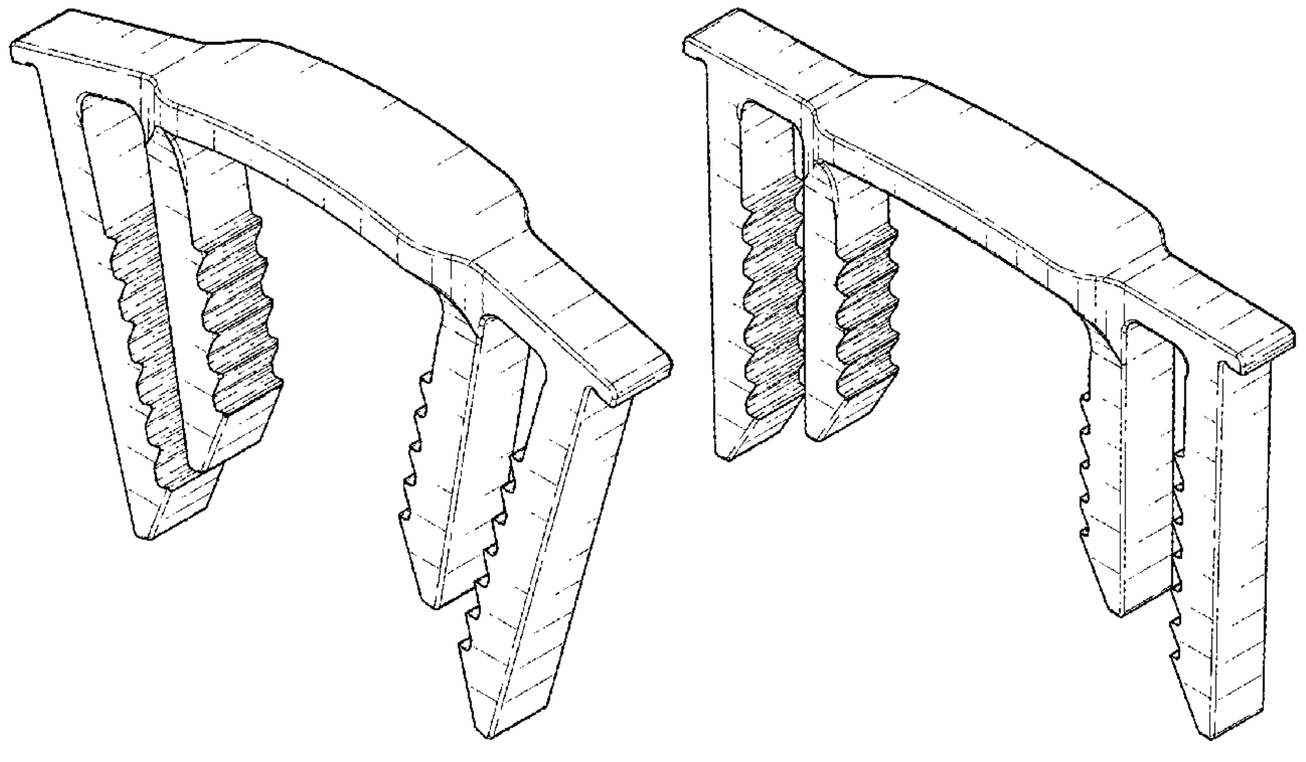
(52) **U.S. Cl.**
USPC **D24/155**

(58) **Field of Classification Search**
USPC D24/155
CPC A61B 17/0642; A61B 17/0682; A61B 17/0644; F16B 15/06
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,010,913 A		8/1935	Bruce	
2,133,859 A		10/1938	Hawley	
2,544,492 A		3/1951	Downing	
2,811,073 A		10/1957	Klopstock	
3,741,205 A		6/1973	Markolf et al.	
3,939,828 A	*	2/1976	Mohr	A61B 17/68 606/221
4,263,903 A		4/1981	Griggs	
4,278,091 A		7/1981	Borzone	
4,415,111 A		11/1983	McHarrie et al.	
4,438,769 A		3/1984	Pratt et al.	
4,454,875 A		6/1984	Pratt et al.	
4,484,570 A		11/1984	Sutter et al.	
4,655,222 A		4/1987	Florez et al.	
4,723,540 A		2/1988	Gilmer, Jr.	
4,805,617 A		2/1989	Bedi et al.	
4,848,328 A		7/1989	Laboureau et al.	
4,852,558 A		8/1989	Outerbridge	
4,874,122 A		10/1989	Froelich et al.	
5,013,315 A		5/1991	Barrows	
5,044,540 A		9/1991	Dulebohn	
5,209,756 A		5/1993	Seedhom et al.	
5,246,443 A		9/1993	Mai	
5,258,012 A		11/1993	Luscombe et al.	
5,352,229 A		10/1994	Goble et al.	
5,395,372 A		3/1995	Holt et al.	
5,425,489 A		6/1995	Shichman et al.	
5,449,359 A		9/1995	Groiso	
5,454,814 A		10/1995	Comte	
5,456,400 A		10/1995	Shichman et al.	
5,490,409 A		2/1996	Weber	
5,498,749 A		3/1996	Heise et al.	
5,520,700 A		5/1996	Beyar et al.	
5,578,034 A		11/1996	Estes	
5,607,425 A		3/1997	Rogozinski	
5,628,740 A		5/1997	Mullane	
5,634,926 A		6/1997	Jobe	
5,660,188 A		8/1997	Groiso	
5,662,655 A		9/1997	Laboureau et al.	
5,716,357 A		2/1998	Rogozinski	
5,749,564 A		5/1998	Malek	
5,779,707 A		7/1998	Bertholet et al.	
5,785,713 A		7/1998	Jobe	
5,788,698 A		8/1998	Savornin	
5,807,403 A		9/1998	Beyar et al.	
5,853,414 A		12/1998	Groiso	
5,904,682 A		5/1999	Rogozinski	
5,931,839 A		8/1999	Medoff	
5,947,968 A		9/1999	Rogozinski	
5,947,999 A		9/1999	Groiso	
5,972,000 A		10/1999	Beyar et al.	
5,993,476 A		11/1999	Groiso	
6,010,504 A		1/2000	Rogozinski	
6,017,343 A		1/2000	Rogozinski	
6,019,759 A		2/2000	Rogozinski	
6,059,787 A		5/2000	Allen	
6,089,435 A		7/2000	Malek	
6,105,936 A		8/2000	Malek	
6,120,503 A		9/2000	Michelson	
6,179,840 B1		1/2001	Bowman	
6,187,009 B1		2/2001	Herzog et al.	
6,281,262 B1		8/2001	Shikinami	
6,322,562 B1		11/2001	Wolter	
6,334,446 B1		1/2002	Beyar	
6,336,927 B2		1/2002	Rogozinski	
6,348,054 B1		2/2002	Allen	
6,364,884 B1		4/2002	Bowman et al.	
6,379,354 B1		4/2002	Rogozinski	
6,387,041 B1		5/2002	Harari et al.	



6,402,765	B1	6/2002	Monassevitch et al.	
6,402,766	B2	6/2002	Bowman et al.	
6,406,480	B1	6/2002	Beyar et al.	
6,423,073	B2	7/2002	Bowman	
6,436,110	B2	8/2002	Bowman et al.	
6,447,517	B1	9/2002	Bowman	
6,497,707	B1	12/2002	Bowman et al.	
6,544,273	B1	4/2003	Harari et al.	
6,575,984	B2	6/2003	Beyar	
6,575,998	B2	6/2003	Beyar	
6,582,435	B2	6/2003	Wellisz et al.	
6,592,610	B2	7/2003	Beyar	
6,635,058	B2	10/2003	Beyar et al.	
6,652,531	B2	11/2003	Wellisz et al.	
D484,032	S *	12/2003	Del Re	D8/390
6,663,642	B2	12/2003	Beyar et al.	
6,679,885	B2	1/2004	Wellisz	
6,709,437	B2	3/2004	Wellisz	
6,730,110	B1	5/2004	Harari et al.	
6,746,455	B2	6/2004	Beyar et al.	
6,783,531	B2	8/2004	Allen	
6,896,684	B2	5/2005	Monassevitch et al.	
6,966,911	B2	11/2005	Groiso	
6,974,461	B1	12/2005	Wolter	
7,044,951	B2	5/2006	Medoff et al.	
7,090,676	B2	8/2006	Huebner et al.	
7,147,640	B2	12/2006	Huebner et al.	
7,153,309	B2	12/2006	Huebner et al.	
7,179,260	B2	2/2007	Gerlach et al.	
7,189,237	B2	3/2007	Huebner	
7,214,232	B2	5/2007	Bowman et al.	
7,226,408	B2	6/2007	Harai et al.	
7,229,452	B2	6/2007	Kayan	
7,235,079	B2	6/2007	Jensen et al.	
7,250,054	B2	7/2007	Allen et al.	
7,255,701	B2	8/2007	Allen et al.	
7,311,712	B2	12/2007	Dalton	
7,326,212	B2	2/2008	Huebner	
D574,956	S	8/2008	Grim	
7,438,209	B1	10/2008	Hess et al.	
7,473,255	B2	1/2009	McGarity et al.	
7,473,257	B2	1/2009	Knopfle et al.	
D586,915	S *	2/2009	Grim	D24/145
7,500,979	B2	3/2009	Hueil et al.	
7,506,791	B2	3/2009	Omaits et al.	
7,537,596	B2	5/2009	Jensen	
7,537,603	B2	5/2009	Huebner et al.	
7,537,604	B2	5/2009	Huebner	
7,556,647	B2	7/2009	Drews et al.	
7,562,105	B2	7/2009	Liu et al.	
7,578,825	B2	8/2009	Huebner	
7,604,151	B2	10/2009	Hess et al.	
7,618,441	B2	11/2009	Groiso	
7,651,498	B2	1/2010	Shifrin et al.	
7,665,647	B2	2/2010	Shelton, IV et al.	
7,669,746	B2	3/2010	Shelton, IV	
7,669,747	B2	3/2010	Weisenburgh, II et al.	
7,673,781	B2	3/2010	Swayze et al.	
7,673,782	B2	3/2010	Hess et al.	
7,704,251	B2	4/2010	Huebner et al.	
7,704,279	B2	4/2010	Moskowitz et al.	
7,717,945	B2	5/2010	Jensen et al.	
7,735,703	B2	6/2010	Morgan et al.	
7,740,634	B2	6/2010	Orbay et al.	
7,766,209	B2	8/2010	Baxter, III et al.	
7,766,948	B1	8/2010	Leung	
7,771,433	B2	8/2010	Orbay et al.	
7,794,475	B2	9/2010	Hess et al.	
7,832,612	B2	11/2010	Baxter, III et al.	
7,846,188	B2	12/2010	Moskowitz et al.	
7,857,186	B2	12/2010	Baxter, III et al.	
7,857,836	B2	12/2010	Huebner et al.	
7,867,265	B2	1/2011	Beutter	
7,905,381	B2	3/2011	Baxter, III et al.	
7,905,910	B2	3/2011	Gerlach et al.	
7,909,858	B2	3/2011	Gerlach et al.	
7,914,532	B2	3/2011	Shaver et al.	
7,918,879	B2	4/2011	Yeung et al.	
7,927,332	B2	4/2011	Huebner et al.	
7,934,630	B2	5/2011	Shelton, IV et al.	
7,935,126	B2	5/2011	Orbay et al.	
7,942,903	B2	5/2011	Moskowitz et al.	
7,951,180	B2	5/2011	Moskowitz et al.	
7,954,686	B2	6/2011	Baxter, III et al.	
7,955,388	B2	6/2011	Jensen et al.	
7,963,982	B2	6/2011	Kirschman	
7,966,799	B2	6/2011	Morgan et al.	
7,972,363	B2	7/2011	Moskowitz et al.	
8,016,867	B2	9/2011	Bowman	
8,043,346	B2	10/2011	Markworth	
8,100,953	B2	1/2012	White et al.	
8,105,367	B2	1/2012	Austin et al.	
8,114,139	B2	2/2012	Sournac et al.	
8,137,351	B2	3/2012	Prandi	
8,141,762	B2	3/2012	Bedi et al.	
8,172,886	B2	5/2012	Castaneda et al.	
8,177,819	B2	5/2012	Huebner et al.	
8,182,518	B2	5/2012	Butler et al.	
8,186,560	B2	5/2012	Hess et al.	
8,205,781	B2	6/2012	Baxter, III et al.	
8,220,690	B2	7/2012	Hess et al.	
8,231,627	B2	7/2012	Huebner et al.	
8,231,662	B2	7/2012	Huebner	
8,241,326	B2	8/2012	Harari et al.	
8,241,338	B2	8/2012	Castaneda et al.	
8,252,032	B2	8/2012	White et al.	
8,257,370	B2	9/2012	Moskowitz et al.	
8,262,711	B2	9/2012	Hess	
8,287,543	B2	10/2012	Medoff	
8,317,070	B2	11/2012	Hueil et al.	
8,337,537	B2	12/2012	Pelo et al.	
8,348,129	B2	1/2013	Bedi et al.	
8,348,131	B2	1/2013	Omaits et al.	
8,353,913	B2	1/2013	Moskowitz et al.	
8,360,297	B2	1/2013	Shelton, IV et al.	
8,365,976	B2	2/2013	Hess et al.	
8,382,807	B2	2/2013	Austin et al.	
8,393,517	B2	3/2013	Milo	
8,398,717	B2	3/2013	Kleinman	
8,413,872	B2	4/2013	Patel	
8,425,574	B2	4/2013	Huebner et al.	
8,425,575	B2	4/2013	Huebner et al.	
8,425,576	B2	4/2013	Anderson et al.	
8,430,292	B2	4/2013	Patel et al.	
8,449,561	B2	5/2013	Bowman	
8,453,908	B2	6/2013	Bedi et al.	
8,464,923	B2	6/2013	Shelton, IV	
8,475,504	B2	7/2013	Gillard et al.	
8,485,412	B2	7/2013	Shelton, IV et al.	
8,486,116	B2	7/2013	Heilman	
8,496,693	B2	7/2013	Robinson	
8,499,993	B2	8/2013	Shelton, IV et al.	
8,518,090	B2	8/2013	Huebner et al.	
8,523,919	B2	9/2013	Huebner et al.	
8,540,129	B2	9/2013	Baxter, III et al.	
8,540,133	B2	9/2013	Bedi et al.	
D691,720	S	10/2013	Cheney et al.	
8,545,540	B2	10/2013	Castaneda et al.	
8,561,870	B2	10/2013	Baxter, III et al.	
8,567,656	B2	10/2013	Shelton, IV et al.	
8,574,270	B2	11/2013	Hess et al.	
8,584,853	B2	11/2013	Knight et al.	
8,585,743	B2	11/2013	Ampuero et al.	
8,590,762	B2	11/2013	Hess et al.	
8,596,514	B2	12/2013	Miller et al.	
8,603,161	B2	12/2013	Drews et al.	
8,636,187	B2	1/2014	Hueil et al.	
8,652,142	B2	2/2014	Geissler	
8,652,180	B2	2/2014	Federspiel et al.	
8,657,820	B2	2/2014	Kubiak et al.	
8,668,130	B2	3/2014	Hess et al.	
8,672,208	B2	3/2014	Hess et al.	
8,672,828	B2	3/2014	Harari et al.	
8,679,123	B2	3/2014	Kinmon et al.	
D705,930	S	5/2014	Cheney	
8,720,766	B2	5/2014	Hess et al.	
8,727,197	B2	5/2014	Hess et al.	
8,728,128	B2	5/2014	Hawkes	

8,728,129	B2	5/2014	Fritzinger et al.	
8,734,516	B2	5/2014	Moskowitz et al.	
D707,357	S *	6/2014	Cheney	D24/145
8,740,915	B2	6/2014	Niederberger et al.	
8,747,444	B2	6/2014	Moskowitz et al.	
8,763,875	B2	7/2014	Morgan et al.	
8,777,969	B2	7/2014	Kayan	
8,779,927	B2	7/2014	Bell et al.	
8,784,450	B2	7/2014	Moskowitz et al.	
8,800,838	B2	8/2014	Shelton, IV	
8,808,325	B2	8/2014	Hess et al.	
8,808,335	B2	8/2014	Biedermann	
8,814,915	B2	8/2014	Hess et al.	
8,834,537	B2	9/2014	Castaneda et al.	
8,858,562	B2	10/2014	Orbay et al.	
8,870,882	B2	10/2014	Kleiner	
8,882,812	B2	11/2014	Hess et al.	
8,888,824	B2	11/2014	Austin et al.	
8,888,826	B2	11/2014	Kinmon et al.	
8,894,651	B2	11/2014	Aflatoon	
8,899,465	B2	12/2014	Shelton, IV et al.	
8,906,046	B2	12/2014	Anderson	
8,925,788	B2	1/2015	Hess et al.	
8,940,028	B2	1/2015	Austin et al.	
8,973,804	B2	3/2015	Hess et al.	
8,974,504	B2	3/2015	Hess et al.	
8,986,305	B2	3/2015	Aflatoon et al.	
8,991,676	B2	3/2015	Hess et al.	
8,992,581	B2	3/2015	Austin et al.	
9,005,206	B2	4/2015	Ampuero et al.	
9,005,293	B2	4/2015	Moskowitz et al.	
9,017,331	B2	4/2015	Fox	
9,017,380	B2	4/2015	Mayer et al.	
9,034,037	B2	5/2015	Fiere et al.	
9,072,554	B2	7/2015	Reynolds et al.	
9,078,757	B2	7/2015	Kleinman et al.	
9,095,338	B2	8/2015	Taylor et al.	
9,095,388	B2	8/2015	Hess et al.	
9,101,349	B2	8/2015	Knight et al.	
9,107,661	B2	8/2015	Euteneuer et al.	
9,125,650	B2	9/2015	Euteneuer et al.	
9,138,233	B2	9/2015	Anderson	
9,179,911	B2	11/2015	Morgan et al.	
9,180,022	B2	11/2015	Georges et al.	
9,204,932	B2	12/2015	Knight et al.	
9,220,515	B2	12/2015	Castaneda et al.	
9,237,891	B2	1/2016	Shelton, IV	
9,247,978	B2	2/2016	Euteneuer et al.	
9,265,649	B2	2/2016	Pflueger et al.	
D752,219	S	3/2016	Peterson et al.	
9,271,726	B2	3/2016	Euteneuer	
9,283,006	B2	3/2016	Fonte	
9,289,206	B2	3/2016	Hess et al.	
9,289,210	B2	3/2016	Baxter, III et al.	
9,301,854	B2	4/2016	Moskowitz et al.	
9,307,988	B2	4/2016	Shelton, IV	
9,308,033	B2	4/2016	Huebner et al.	
9,326,768	B2	5/2016	Shelton, IV	
9,326,771	B2	5/2016	Baxter, III et al.	
9,339,268	B2	5/2016	Fox	
9,370,355	B2	6/2016	Anderson	
9,370,356	B2	6/2016	Euteneuer et al.	
9,370,376	B2	6/2016	Castaneda et al.	
9,387,116	B2	7/2016	Pflueger et al.	
9,402,623	B2	8/2016	Kayan	
9,402,624	B1 *	8/2016	Scott	A61B 17/064
9,408,603	B2	8/2016	Patel	
9,408,604	B2	8/2016	Shelton, IV et al.	
9,408,647	B2	8/2016	Cheney	
9,414,841	B2	8/2016	Euteneuer et al.	
9,414,871	B2	8/2016	Huebner et al.	
9,421,013	B2	8/2016	Patel et al.	
9,445,808	B2	9/2016	Woodard, Jr. et al.	
9,451,957	B2	9/2016	Fox	
9,463,015	B2	10/2016	Hausen	
9,486,212	B2	11/2016	Miller et al.	
D773,665	S	12/2016	Cheney et al.	
D773,666	S	12/2016	Cheney et al.	
9,532,821	B2	1/2017	Moskowitz et al.	
9,539,023	B2	1/2017	Marotte	
9,549,735	B2	1/2017	Shelton, IV et al.	
D780,311	S *	2/2017	Cheney	D24/155
9,561,032	B2	2/2017	Shelton, IV et al.	
9,566,063	B2	2/2017	Euteneuer et al.	
9,603,641	B2	3/2017	Hulliger	
9,615,856	B2	4/2017	Arnett et al.	
9,763,715	B2	9/2017	Mather et al.	
9,839,458	B2	12/2017	Bouduban et al.	
9,861,404	B2	1/2018	Reiley	
9,901,338	B2 *	2/2018	Anderson	A61B 17/0644
9,918,762	B2	3/2018	Federspiel et al.	
9,924,984	B2	3/2018	Hartdegen et al.	
9,955,964	B2	5/2018	Mayer et al.	
10,052,103	B2	8/2018	Wahl	
10,117,647	B2	11/2018	Cheney	
10,166,022	B2	1/2019	Early et al.	
10,186,402	B2	1/2019	Kamata et al.	
10,292,743	B2	5/2019	Taylor et al.	
10,299,842	B2	5/2019	Hollis et al.	
10,307,156	B1	6/2019	Blair et al.	
10,357,986	B2	7/2019	Zhou et al.	
D865,178	S *	10/2019	Sammarco	D24/155
10,433,885	B2	10/2019	Hartdegen et al.	
10,448,979	B2	10/2019	Fox	
10,456,130	B2 *	10/2019	Cheney	A61B 17/0684
D870,284	S *	12/2019	Hollis	D24/155
10,492,841	B2	12/2019	Hartdegen et al.	
D892,331	S	8/2020	Hollis et al.	
D895,113	S	9/2020	Blair et al.	
10,779,944	B2	9/2020	Cousins et al.	
2001/0028148	A1	10/2001	White	
2002/0019636	A1 *	2/2002	Ogilvie	A61B 17/70 606/215
2002/0095155	A1	7/2002	Michelson	
2002/0095181	A1	7/2002	Beyar	
2002/0111641	A1	8/2002	Peterson et al.	
2003/0083663	A1	5/2003	Goldhahn et al.	
2003/0158553	A1	8/2003	Michelson	
2003/0225409	A1	12/2003	Freid et al.	
2004/0073222	A1	4/2004	Koseki	
2004/0127896	A1	7/2004	Lombardo et al.	
2004/0172040	A1	9/2004	Heggeness	
2004/0220570	A1	11/2004	Frigg	
2005/0021032	A1	1/2005	Koo	
2005/0021035	A1	1/2005	Groiso	
2005/0043757	A1	2/2005	Arad et al.	
2005/0049600	A1	3/2005	Groiso	
2005/0085818	A1	4/2005	Huebner	
2005/0096660	A1	5/2005	Allen	
2005/0101961	A1	5/2005	Huebner et al.	
2005/0107796	A1	5/2005	Gerlach et al.	
2005/0119667	A1	6/2005	Leport et al.	
2005/0165400	A1	7/2005	Fernandez	
2005/0171544	A1	8/2005	Falkner	
2005/0234458	A1	10/2005	Huebner	
2005/0240187	A1	10/2005	Huebner et al.	
2006/0058796	A1	3/2006	Hartdegen et al.	
2006/0058802	A1	3/2006	Kofoed	
2006/0106391	A1	5/2006	Huebner	
2006/0122604	A1	6/2006	Gorhan et al.	
2006/0122605	A1	6/2006	Suh et al.	
2006/0129151	A1	6/2006	Allen et al.	
2006/0200147	A1	9/2006	Ensign et al.	
2006/0241612	A1	10/2006	Medoff	
2006/0241618	A1	10/2006	Gasser et al.	
2006/0264936	A1	11/2006	Partin et al.	
2007/0055249	A1	3/2007	Jensen et al.	
2007/0173840	A1	7/2007	Huebner	
2007/0191850	A1	8/2007	Kim et al.	
2007/0208358	A1	9/2007	Kayan	
2007/0233116	A1	10/2007	Olerud	
2008/0147125	A1	6/2008	Colleran et al.	
2008/0195099	A1	8/2008	Minas	
2008/0200955	A1	8/2008	Tepic	
2008/0255620	A1	10/2008	Strauss et al.	
2008/0275510	A1	11/2008	Schonhardt et al.	
2008/0288000	A1	11/2008	Cawley	
2008/0319443	A1	12/2008	Focht et al.	

2009/0054930 A1 2/2009 Aflatoon
2009/0138082 A1 5/2009 Reah et al.
2009/0177203 A1 7/2009 Reiley
2009/0182383 A1 7/2009 Prybyla et al.
2009/0187247 A1 7/2009 Metcalf, Jr. et al.
2009/0254090 A1 10/2009 Lizee
2009/0254126 A1 10/2009 Orbay et al.
2009/0281543 A1 11/2009 Orbay et al.
2010/0036430 A1 2/2010 Hartdegen et al.
2010/0076448 A1 3/2010 Abdou
2010/0082065 A1 4/2010 Butler et al.
2010/0100138 A1 4/2010 Reynolds et al.
2010/0106196 A1 4/2010 Erikcson et al.
2010/0133316 A1 6/2010 Lizee et al.
2010/0211116 A1 8/2010 Suh et al.
2010/0256765 A1 10/2010 Butler et al.
2010/0292715 A1 11/2010 Nering et al.
2010/0312280 A1 12/2010 Overes et al.
2011/0022049 A1 1/2011 Huebner et al.
2011/0022099 A1 1/2011 Ashman
2011/0029016 A1 2/2011 Yeung et al.
2011/0029023 A1 2/2011 Tornier
2011/0029025 A1 2/2011 Medoff
2011/0054542 A1 3/2011 Kevin et al.
2011/0092981 A1 4/2011 Ng et al.
2011/0098754 A1 4/2011 Hulliger et al.
2011/0118742 A1 5/2011 Hulliger et al.
2011/0118796 A1 5/2011 Reiley et al.
2011/0118840 A1 5/2011 Huntsman et al.
2011/0202092 A1 8/2011 Frigg et al.
2011/0270326 A1 11/2011 Black et al.
2011/0282393 A1 11/2011 Gerlach et al.
2011/0295324 A1 12/2011 Donley et al.
2011/0313421 A1 12/2011 Sidebotham et al.
2011/0319942 A1 12/2011 Bottlang et al.
2012/0022600 A1 1/2012 Overes et al.
2012/0024937 A1 2/2012 Allen
2012/0053638 A1 3/2012 Rusch
2012/0065690 A1 3/2012 Perrow et al.
2012/0078371 A1 3/2012 Gamache et al.
2012/0095513 A1 4/2012 Humphreys
2012/0136396 A1 5/2012 Baker et al.
2012/0143193 A1 6/2012 Hulliger
2012/0150240 A1 6/2012 Medoff
2012/0179207 A1 7/2012 Mekhail et al.
2012/0191141 A1 7/2012 Costabile
2012/0323284 A1 12/2012 Baker et al.
2013/0006247 A1 1/2013 Weiner
2013/0023938 A1 1/2013 Huebner et al.
2013/0023940 A1 1/2013 Hansell et al.
2013/0026206 A1 1/2013 Fox
2013/0030437 A1 1/2013 Fox
2013/0046346 A1 2/2013 Thorwarth et al.
2013/0109910 A1 5/2013 Alexander et al.
2013/0138154 A1 5/2013 Reiley
2013/0150900 A1 6/2013 Haddad et al.
2013/0218285 A1 8/2013 Kleinman et al.
2013/0226252 A1 8/2013 Mayer
2013/0231667 A1* 9/2013 Taylor A61B 17/8085 606/75
2013/0238035 A1 9/2013 Medoff
2013/0267956 A1 10/2013 Terrill et al.
2013/0303071 A1 11/2013 Seki
2013/0325074 A1 12/2013 Ziolo
2013/0345752 A1 12/2013 Hendren et al.
2014/0014553 A1 1/2014 Knight et al.
2014/0018809 A1* 1/2014 Allen A61B 17/0642 606/75
2014/0018862 A1 1/2014 Koay et al.
2014/0020333 A1 1/2014 Knight et al.
2014/0024002 A1 1/2014 Knight et al.
2014/0034702 A1 2/2014 Miller et al.
2014/0058461 A1 2/2014 Black
2014/0100652 A1 4/2014 Drews et al.
2014/0142628 A1 5/2014 Traynelis et al.
2014/0163621 A1 6/2014 Huebner et al.
2014/0163682 A1 6/2014 Lott et al.
2014/0163683 A1 6/2014 Seifert et al.
2014/0172026 A1 6/2014 Biedermann et al.
2014/0200670 A1 7/2014 Chin et al.
2014/0207195 A1 7/2014 Appenzeller et al.
2014/0222086 A1 8/2014 Kuster
2014/0276830 A1 9/2014 Cheney
2014/0296925 A1 10/2014 Lawson et al.
2014/0309639 A1 10/2014 Averous et al.
2014/0316470 A1 10/2014 Hartdegen et al.
2014/0358187 A1 12/2014 Taber et al.
2015/0012003 A1 1/2015 Ryan et al.
2015/0045804 A1 2/2015 Orbay et al.
2015/0066095 A1 3/2015 Austin et al.
2015/0080914 A1 3/2015 Roundy et al.
2015/0080969 A1 3/2015 Holly et al.
2015/0133940 A1 5/2015 Palmer et al.
2015/0142063 A1 5/2015 Austin et al.
2015/0148850 A1 5/2015 Orbay et al.
2015/0173749 A1 6/2015 Shelton et al.
2015/0173750 A1 6/2015 Shelton et al.
2015/0173751 A1 6/2015 Shelton et al.
2015/0173756 A1 6/2015 Baxter et al.
2015/0196333 A1 7/2015 Austin et al.
2015/0216570 A1 8/2015 Hess et al.
2015/0216573 A1 8/2015 Chin et al.
2015/0238191 A1 8/2015 Schellin et al.
2015/0282819 A1 10/2015 Austin et al.
2015/0313592 A1 11/2015 Coillard-Lavirotte et al.
2015/0320462 A1 11/2015 Biedermann
2015/0351762 A1 12/2015 Vendely et al.
2015/0351763 A1 12/2015 Shelton et al.
2015/0351764 A1 12/2015 Shelton
2016/0015384 A1 1/2016 Roedl et al.
2016/0066907 A1 3/2016 Cheney et al.
2016/0074037 A1 3/2016 Cheney et al.
2016/0089191 A1 3/2016 Pak et al.
2016/0100835 A1 4/2016 Linder et al.
2016/0157906 A1 6/2016 Hollis et al.
2016/0192930 A1 7/2016 Finley et al.
2016/0199060 A1 7/2016 Morgan et al.
2016/0242771 A1 8/2016 Weinstein et al.
2016/0242927 A1 8/2016 Seifert et al.
2016/0331372 A1 11/2016 Nelson
2016/0338697 A1 11/2016 Biedermann et al.
2016/0354117 A1 12/2016 Nakaji
2017/0000482 A1 1/2017 Averous et al.
2017/0000533 A1 1/2017 Fallin et al.
2017/0065276 A1 3/2017 Weiner et al.
2017/0065312 A1 3/2017 Lauf et al.
2017/0112553 A1 4/2017 Hansell et al.
2017/0119443 A1 5/2017 Cawley et al.
2017/0156776 A1 6/2017 Weiman et al.
2017/0164990 A1 6/2017 Weiner et al.
2017/0181779 A1 6/2017 Leither et al.
2017/0196606 A1 7/2017 Cianfrani et al.
2017/0202552 A1 7/2017 Coleman et al.
2017/0202585 A1 7/2017 Leak et al.
2017/0209193 A1 7/2017 Hartdegen et al.
2017/0231625 A1 8/2017 Handie
2017/0238974 A1 8/2017 Konieczynski et al.
2017/0245901 A1 8/2017 Grigorian et al.
2017/0281157 A1 10/2017 Hartdegen et al.
2017/0354509 A1 12/2017 Finley et al.
2018/0000592 A1 1/2018 Mayer et al.
2018/0296257 A1 10/2018 Penzimer et al.
2018/0317906 A1 11/2018 Hollis et al.
2018/0353172 A1 12/2018 Hartdegen et al.
2019/0000451 A1 1/2019 Majors et al.
2019/0046182 A1 2/2019 Krumme
2019/0046183 A1 2/2019 Hartdegen et al.
2019/0150921 A1 5/2019 Fonte et al.
2020/0000464 A1 1/2020 Gaston et al.
2020/0000465 A1 1/2020 Maclure et al.
2020/0008807 A1 1/2020 Hollis

FOREIGN PATENT DOCUMENTS

CA 2063484 9/1993
CN 2404495 9/1993
DE 3119550 12/1982
DE 29721858 2/1998

DE	20001879	3/2000
EP	0092383	10/1983
EP	0682920	11/1995
EP	0768062	4/1997
EP	0826340	3/1998
EP	0857462	8/1998
EP	1870042	12/2007
FR	2628312	9/1989
FR	2694696	2/1994
FR	2725126	4/1996
FR	2874166	2/2006
FR	2874316	2/2006
FR	2927527	8/2009
FR	2935256	3/2010
FR	2980966	4/2013
GB	2471648	1/2011
WO	WO1992017122	10/1992
WO	WO2001056489	8/2001
WO	WO2008129061	10/2008
WO	WO2009091770	7/2009
WO	WO2010004602	1/2010
WO	WO2013186205	12/2013
WO	WO2015004391	1/2015

OTHER PUBLICATIONS

DePuy Synthes, BME Elite Implant Technique Overview, (Oct. 25, 2017), 2 pp.
DePuy Synthes, BME Elite Continuous Compression Implant, (May 2017), 3 pp.
Medshape, Inc., DynaClip Bone Fixation System Procedure Guide, (2018, Rev. May 2020), 2 pp.
Medshape, Inc., DynaClip Forte Bone Fixation System Product Information Sheet, (May 2020), 2 pp.

* cited by examiner

Primary Examiner — Charles D Hanson
(74) *Attorney, Agent, or Firm* — BakerHostetler

(57) **CLAIM**

The ornamental design for an orthopedic implant, as shown and described.

DESCRIPTION

FIG. **1** is a top perspective view of an orthopedic implant in a first configuration.
FIG. **2** is a bottom perspective view of the orthopedic implant of FIG. **1** in the first configuration.
FIG. **3** is a front view of the orthopedic implant of FIG. **1** in the first configuration. A rear view of the orthopedic implant of FIG. **1** in the first configuration is the same as the front view of FIG. **3**.
FIG. **4** is a left view of the orthopedic implant of FIG. **1** in the first configuration. A right view of the orthopedic implant of FIG. **1** in the first configuration is the same as the left view of FIG. **4**.
FIG. **5** is a top view of the orthopedic implant of FIG. **1** in the first configuration.
FIG. **6** is a bottom view of the orthopedic implant of FIG. **1** in the first configuration.
FIG. **7** is a top perspective view of the orthopedic implant of FIGS. **1-6** in a second configuration.
FIG. **8** is a bottom perspective view of the orthopedic implant of FIG. **7** in the second configuration.
FIG. **9** is a front view of the orthopedic implant of FIG. **7** in the second configuration. A rear view of the orthopedic implant of FIG. **7** in the second configuration is the same as the front view of FIG. **9**.
FIG. **10** is a left view of the orthopedic implant of FIG. **7** in the second configuration. A right view of the orthopedic implant of FIG. **7** in the second configuration is the same as the left view of FIG. **10**.
FIG. **11** is a top view of the orthopedic implant of FIG. **7** in the second configuration.
FIG. **12** is a bottom view of the orthopedic implant of FIG. **7** in the second configuration.
FIG. **13** is a top perspective view of another orthopedic implant in a first configuration.
FIG. **14** is a bottom perspective view of the orthopedic implant of FIG. **13** in the first configuration.
FIG. **15** is a front view of the orthopedic implant of FIG. **13** in the first configuration. A rear view of the orthopedic implant of FIG. **13** in the first configuration is the same as the front view of FIG. **15**.
FIG. **16** is a left view of the orthopedic implant of FIG. **13** in the first configuration. A right view of the orthopedic implant of FIG. **13** in the first configuration is the same as the left view of FIG. **16**.
FIG. **17** is a top view of the orthopedic implant of FIG. **13** in the first configuration.
FIG. **18** is a bottom view of the orthopedic implant of FIG. **13** in the first configuration.
FIG. **19** is a top perspective view of the orthopedic implant of FIGS. **13-18** in a second configuration.
FIG. **20** is a bottom perspective view of the orthopedic implant of FIG. **19** in the second configuration.
FIG. **21** is a front view of the orthopedic implant of FIG. **19** in the second configuration. A rear view of the orthopedic implant of FIG. **19** in the second configuration is the same as the front view of FIG. **21**.
FIG. **22** is a left view of the orthopedic implant of FIG. **19** in the second configuration. A right view of the orthopedic implant of FIG. **19** in the second configuration is the same as the left view of FIG. **22**.
FIG. **23** is a top view of the orthopedic implant of FIG. **19** in the second configuration; and,
FIG. **24** is a bottom view of the orthopedic implant of FIG. **19** in the second configuration.

1 Claim, 8 Drawing Sheets

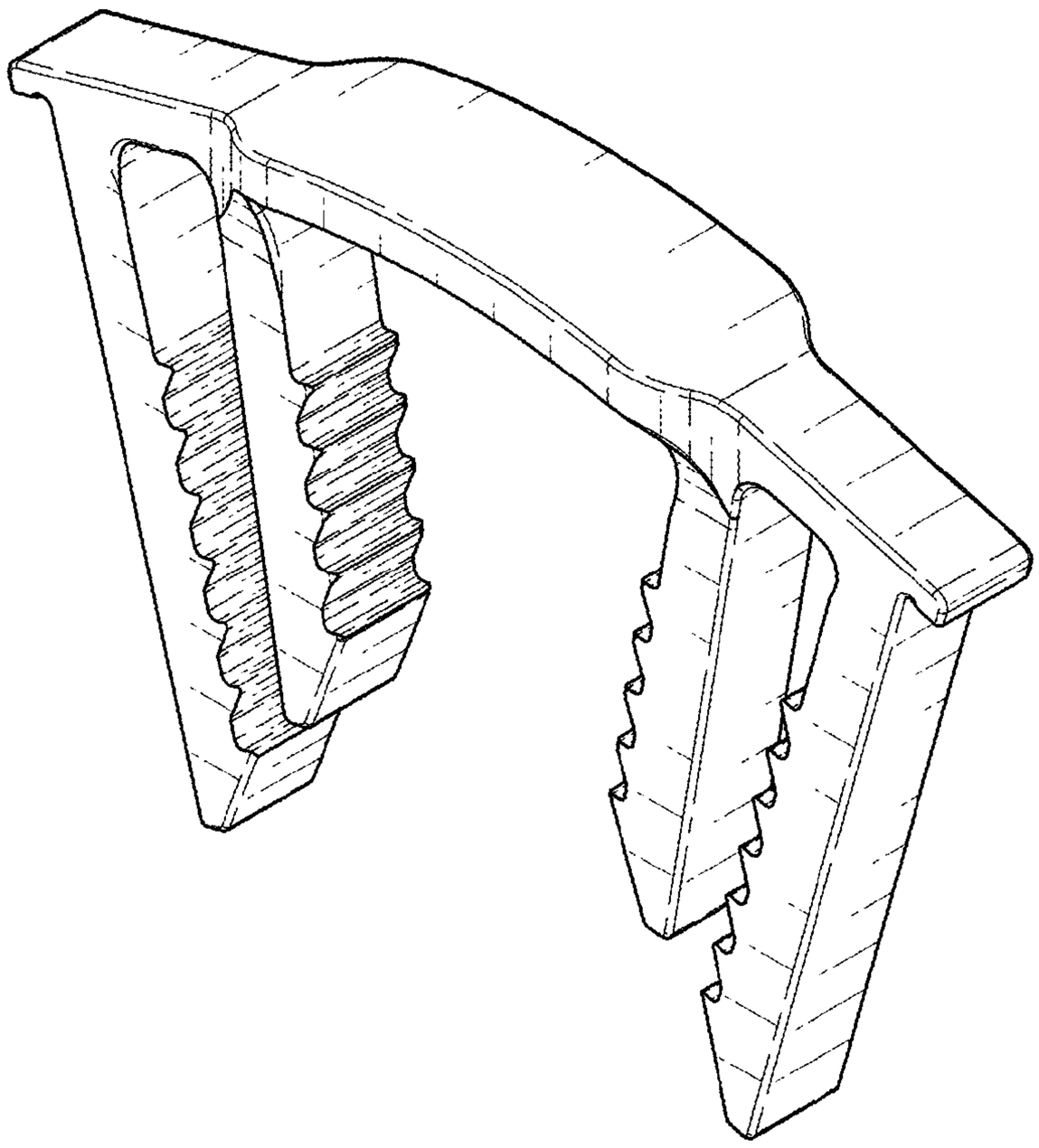


FIG. 1

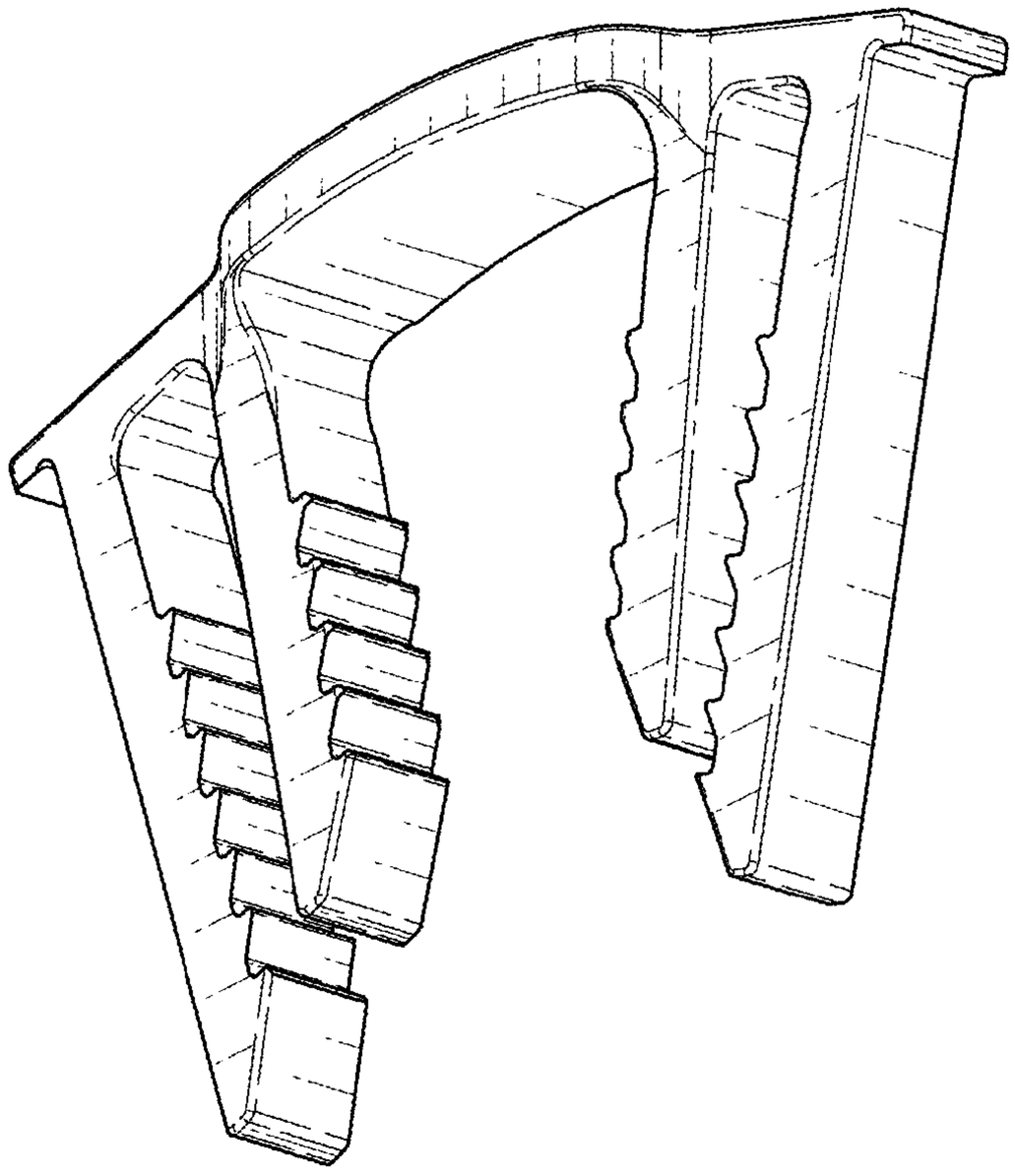


FIG. 2

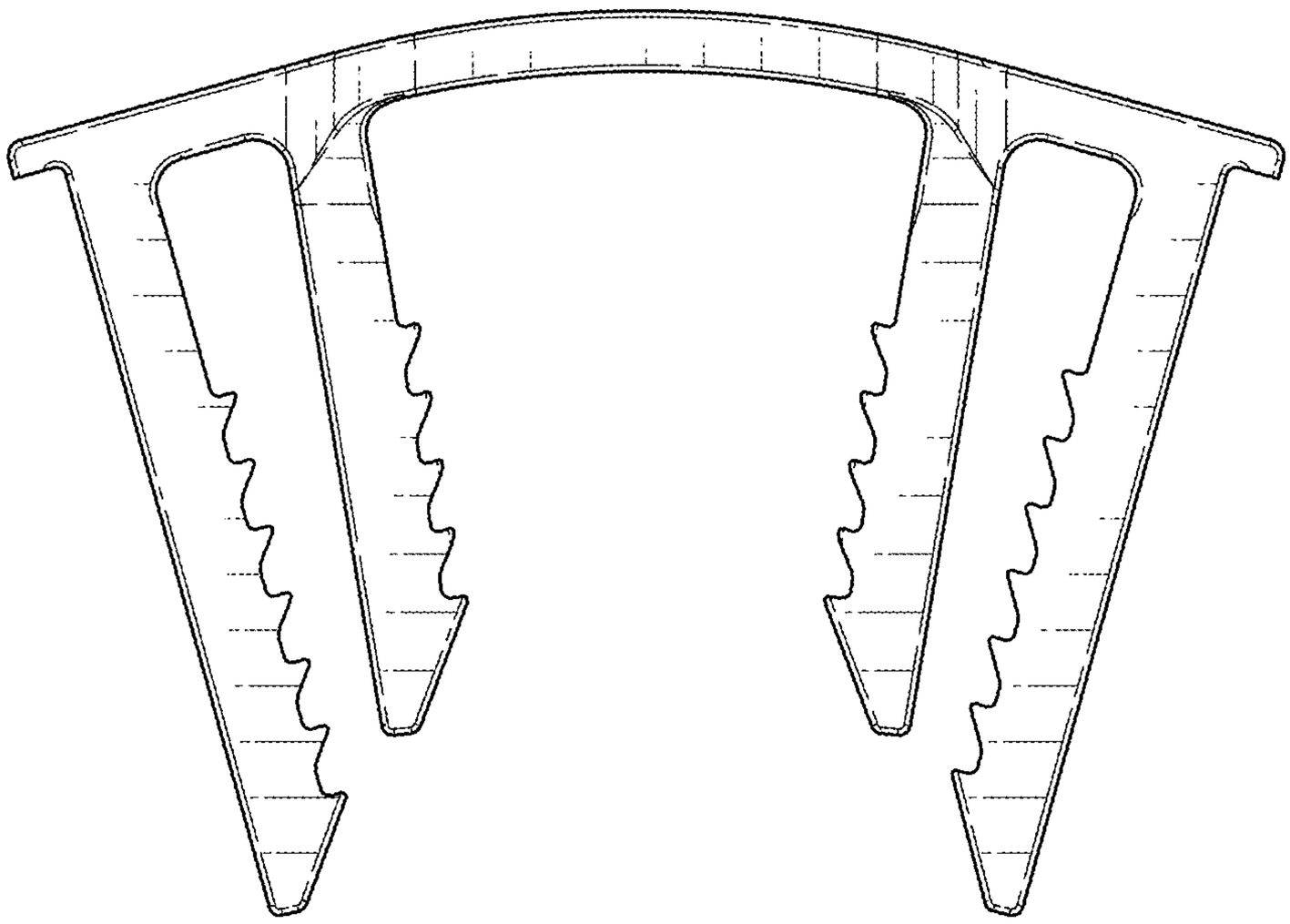


FIG. 3

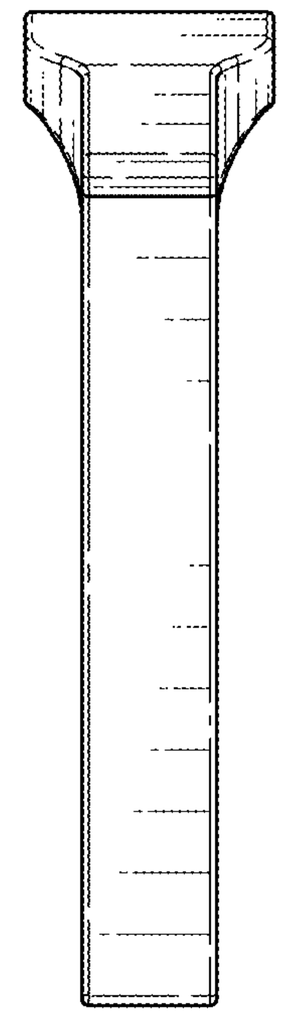


FIG. 4

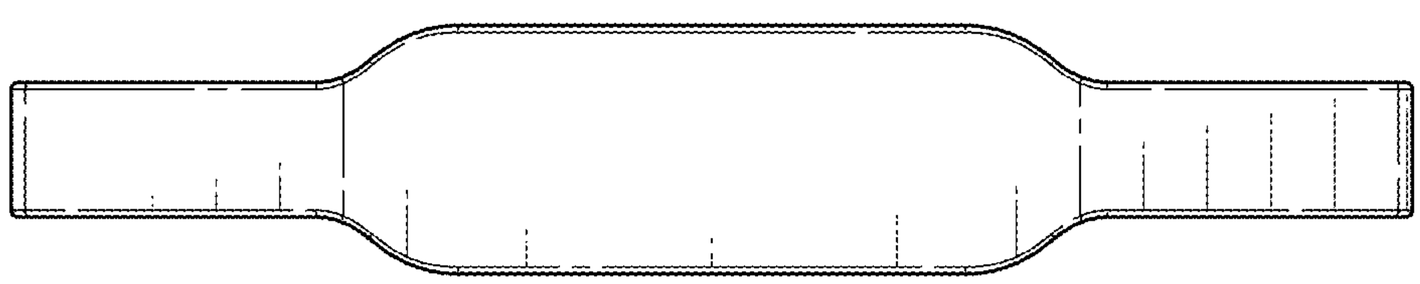


FIG. 5

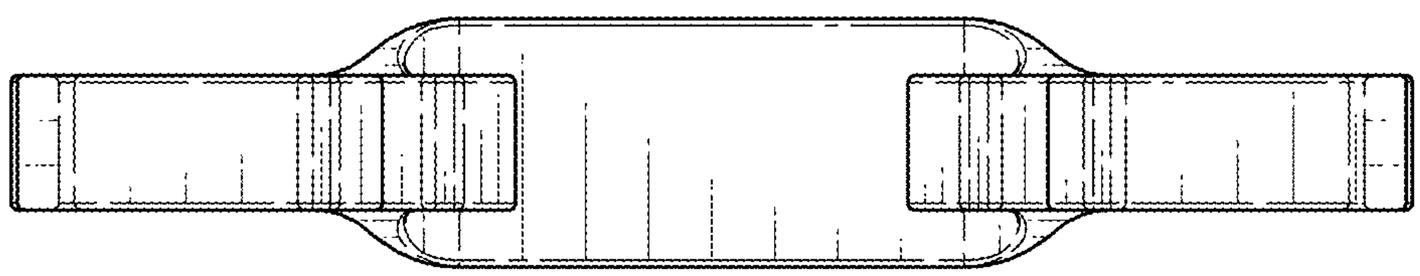


FIG. 6

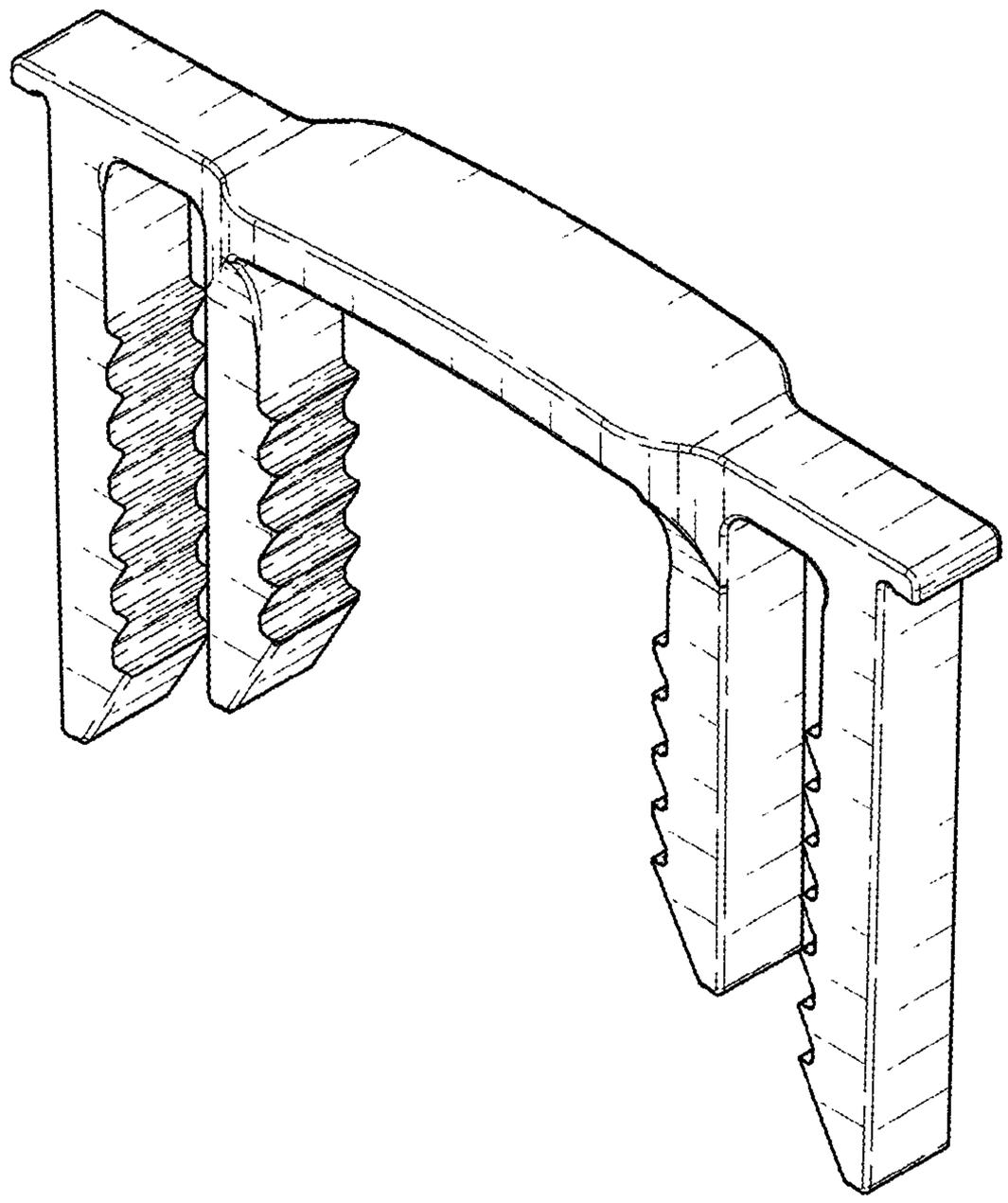


FIG. 7

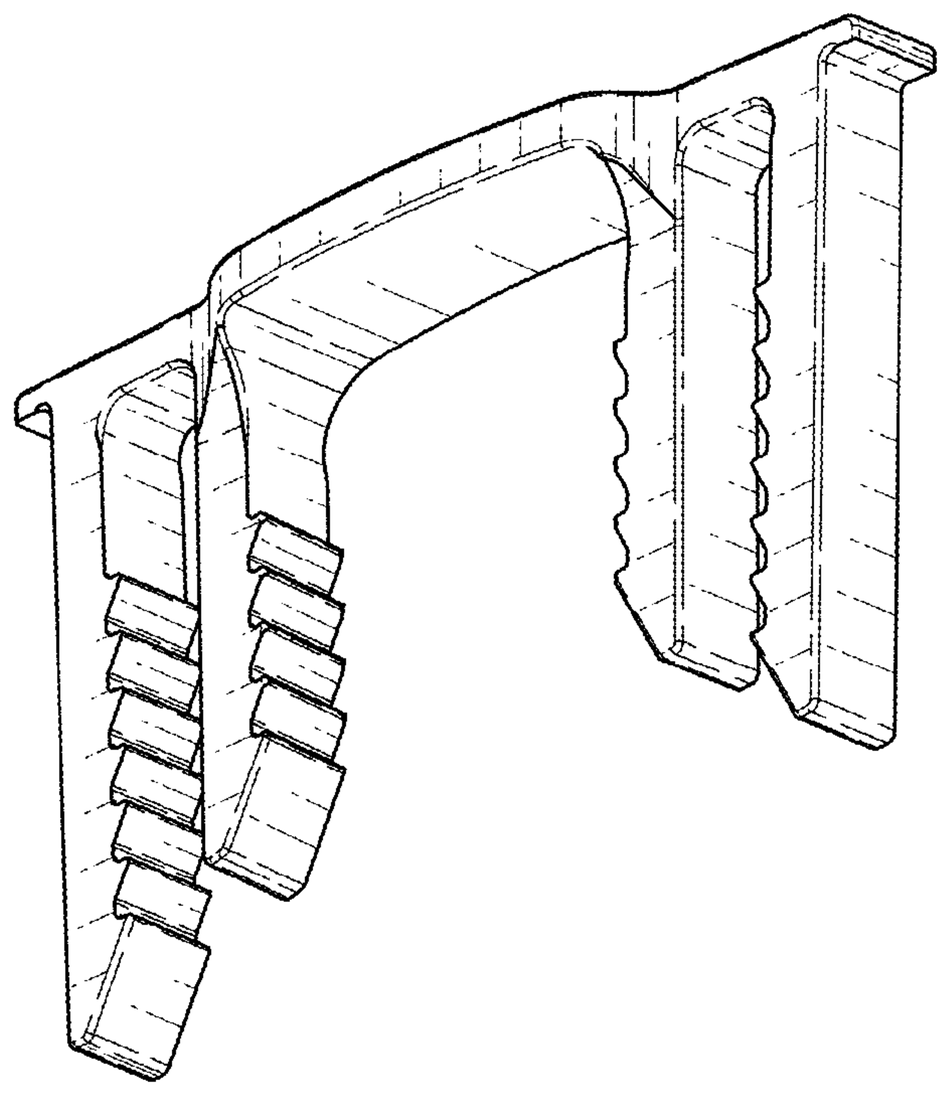


FIG. 8

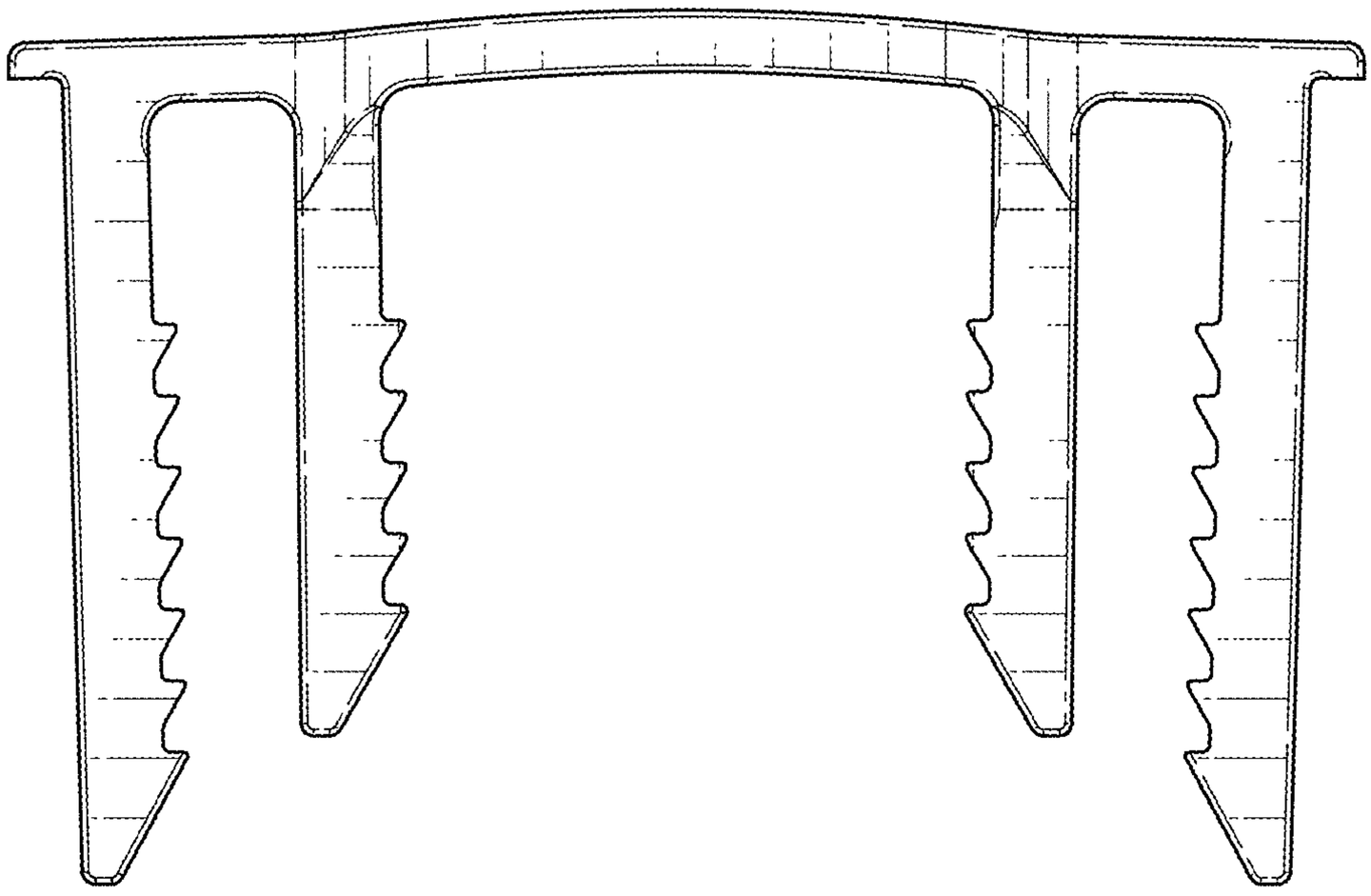


FIG. 9

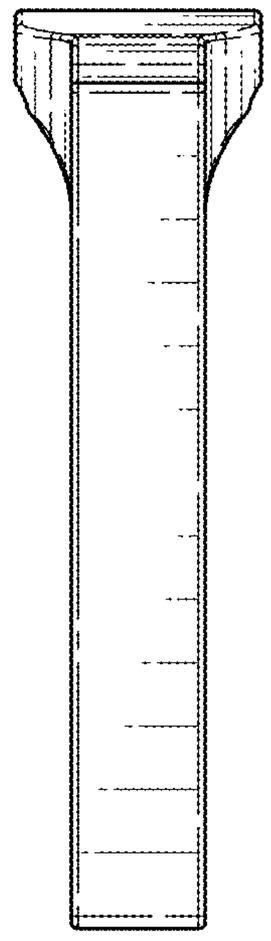


FIG. 10

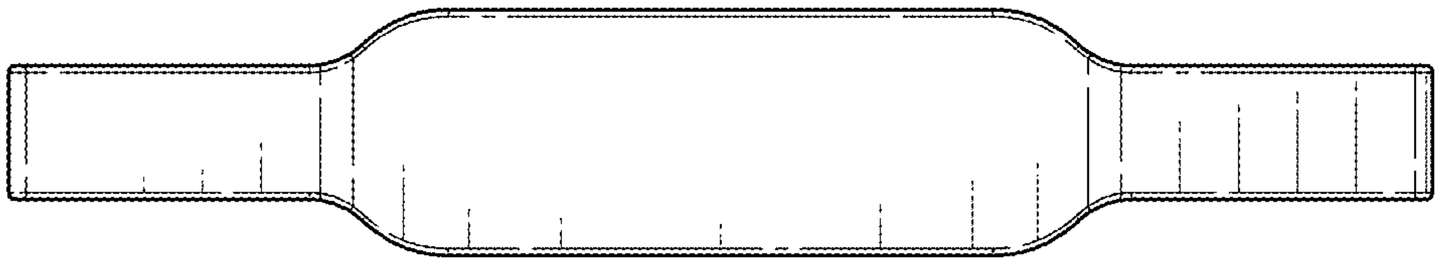


FIG. 11

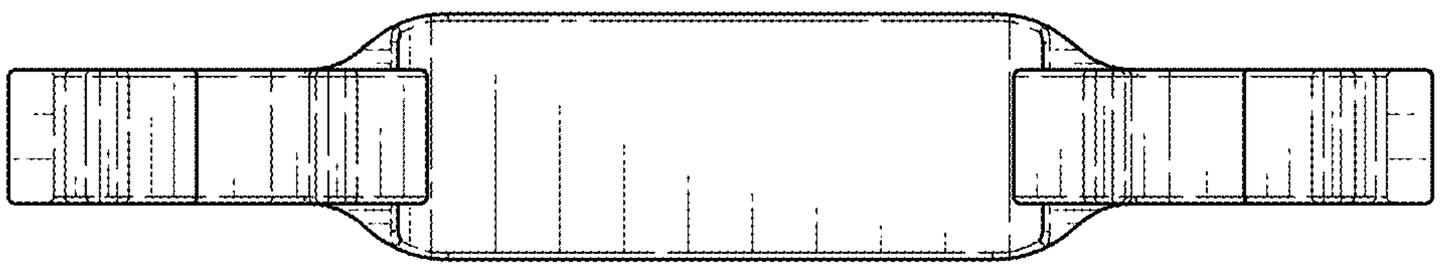


FIG. 12

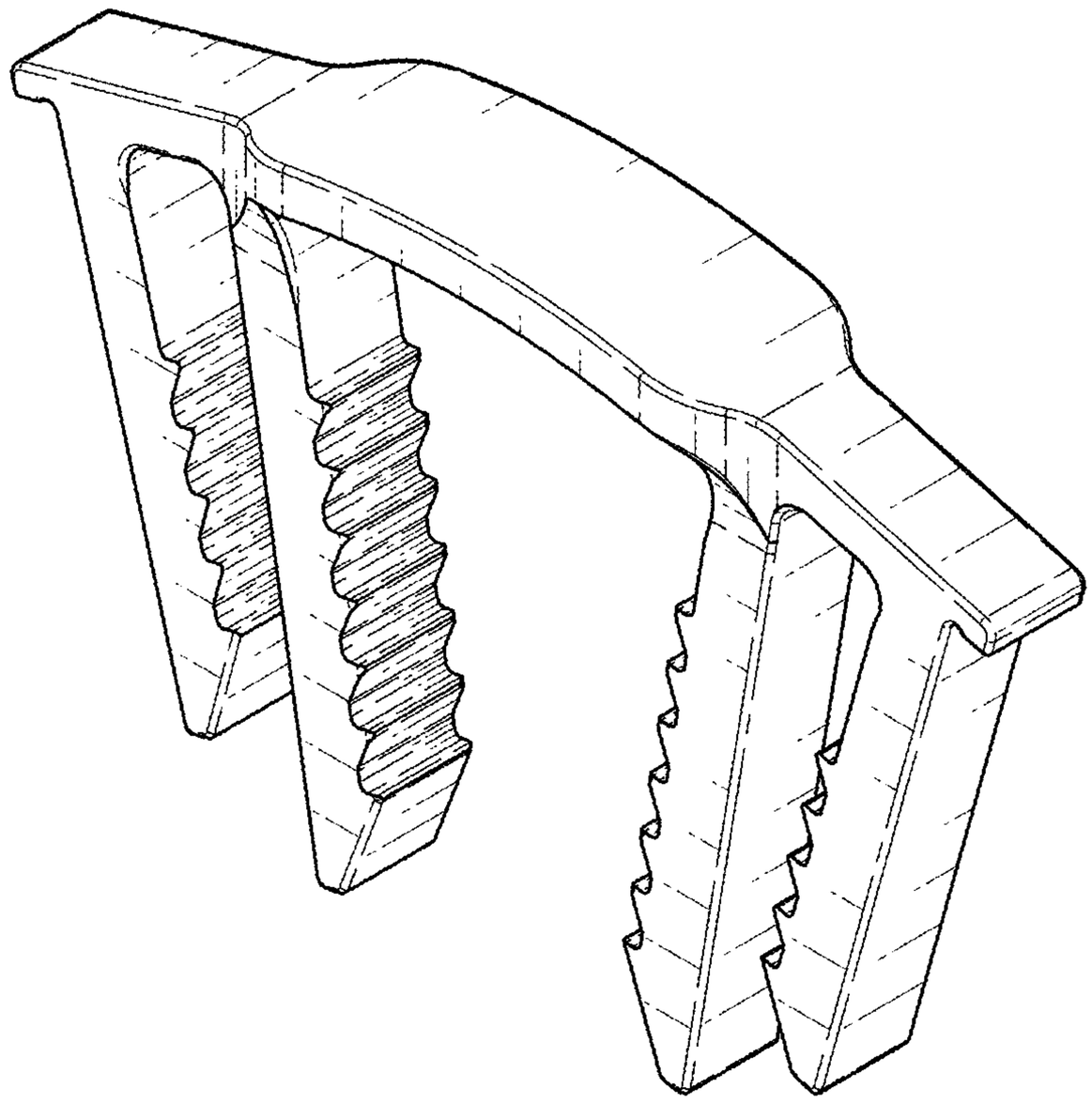


FIG. 13

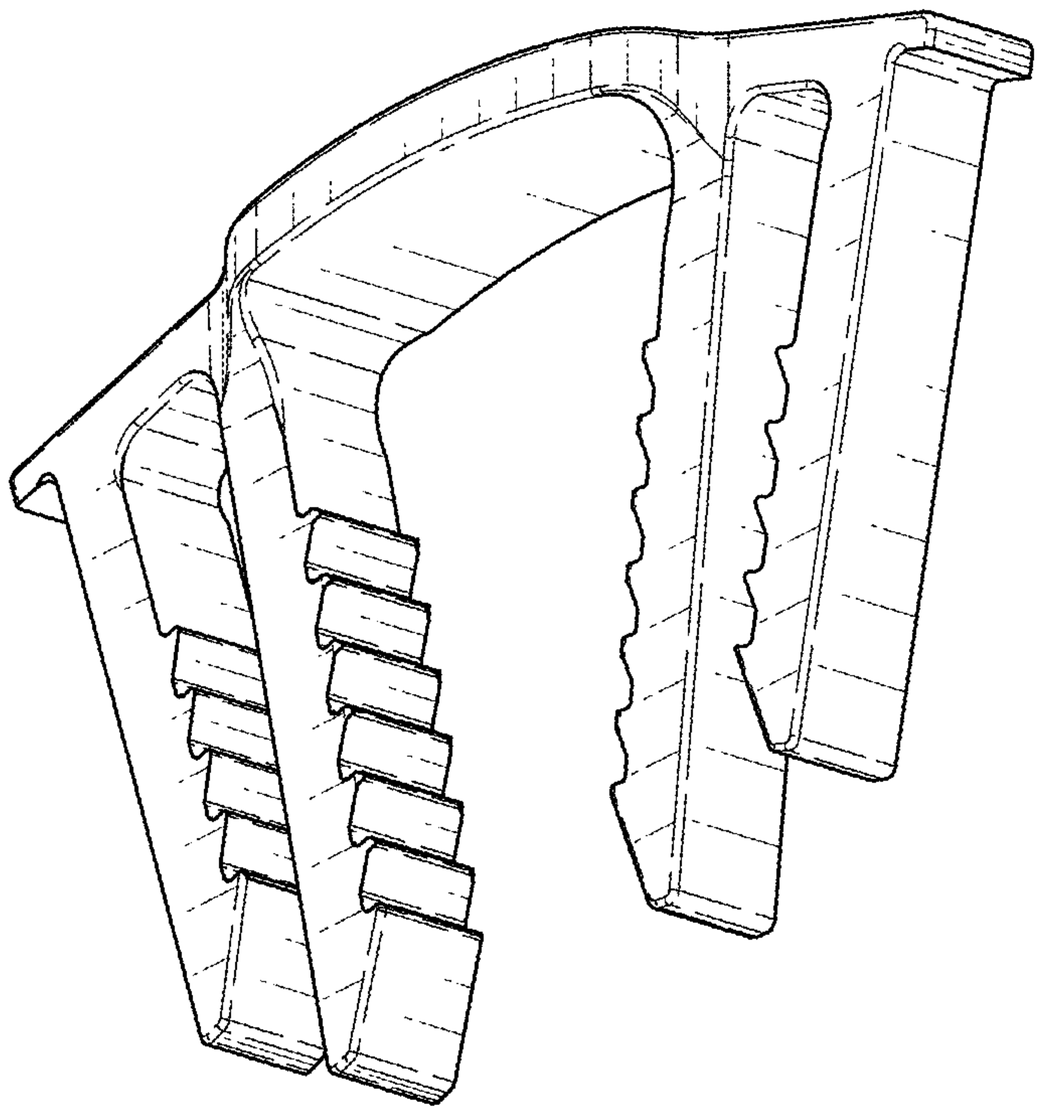


FIG. 14

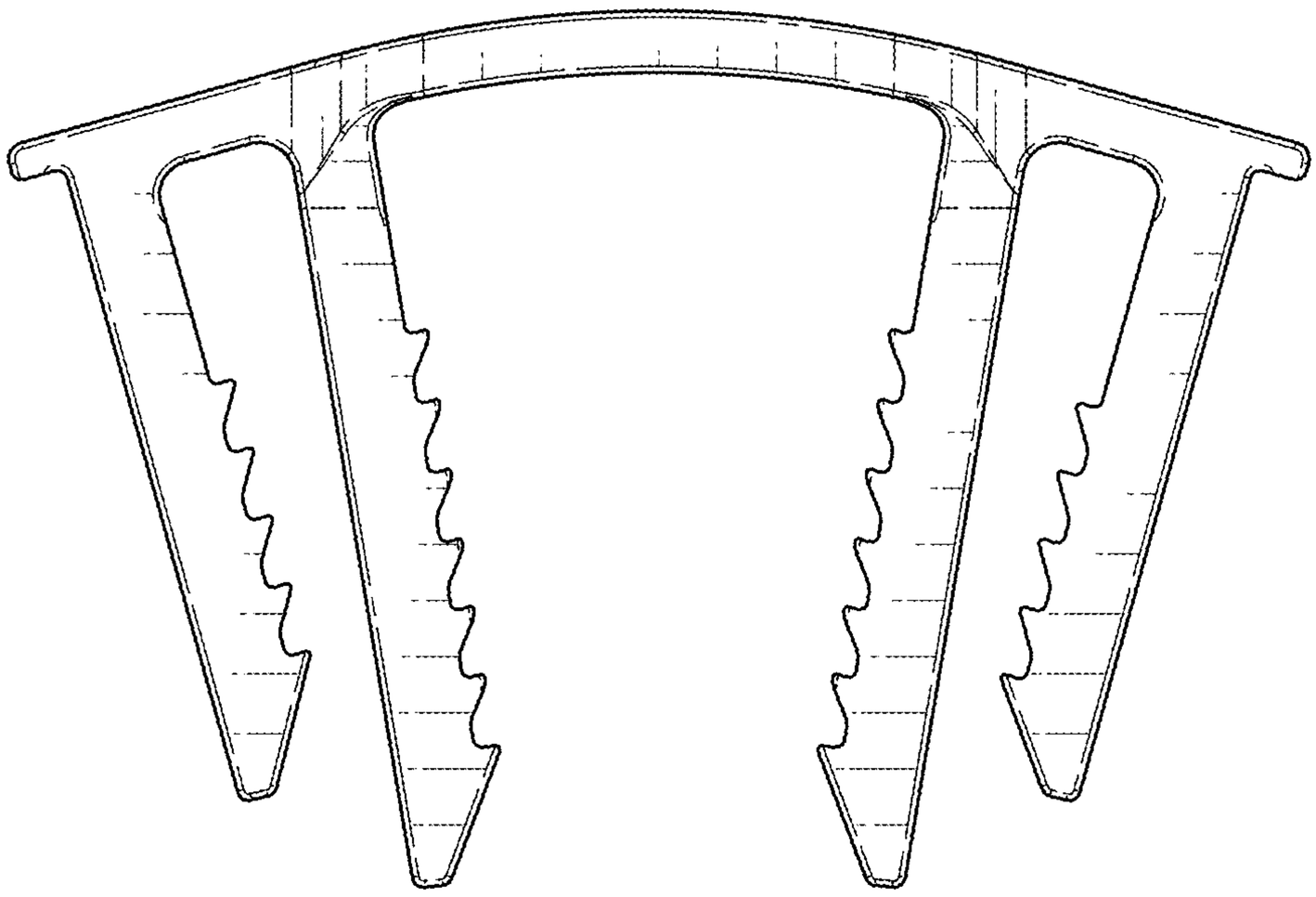


FIG. 15

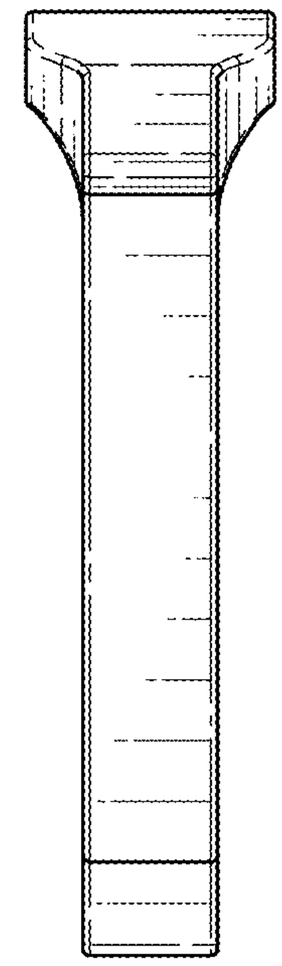


FIG. 16

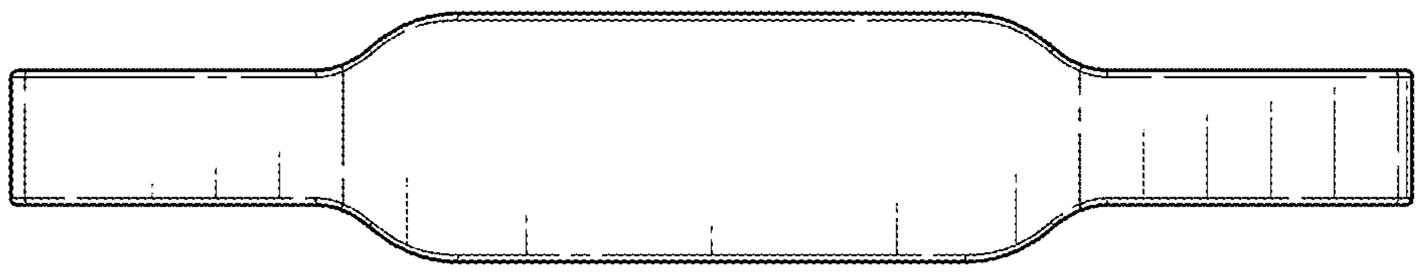


FIG. 17

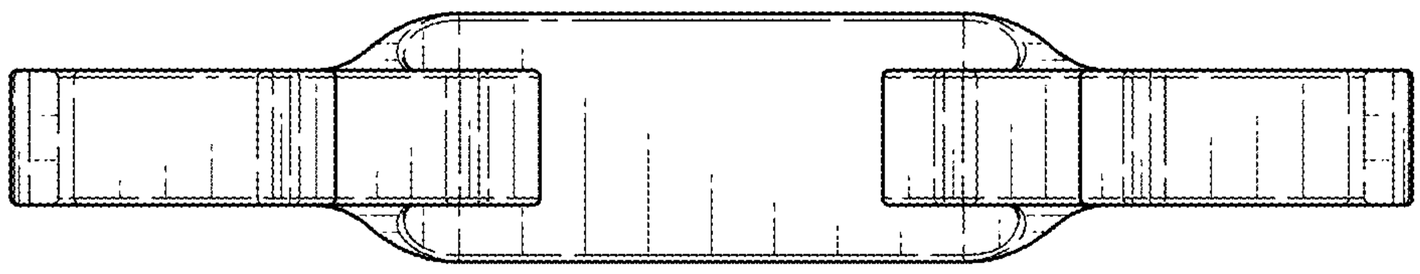


FIG. 18

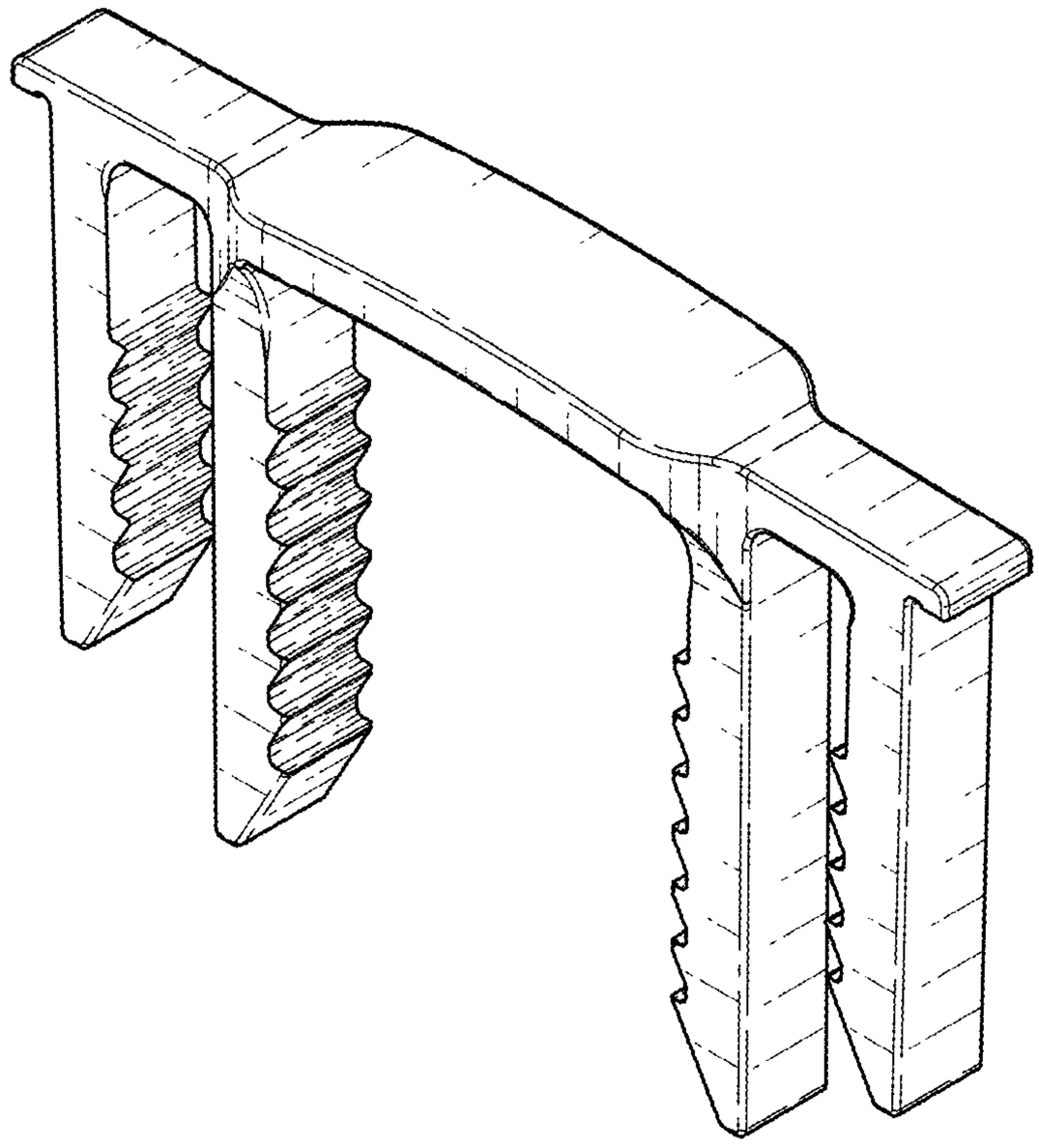


FIG. 19

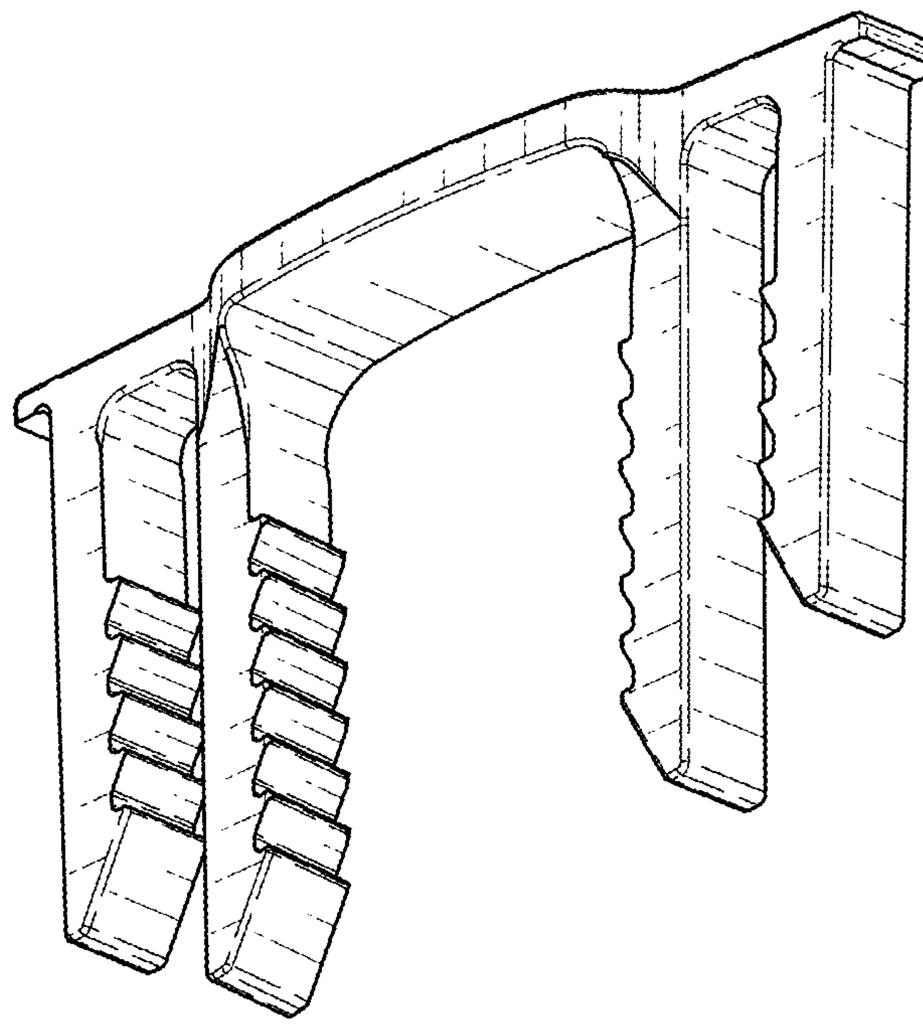


FIG. 20

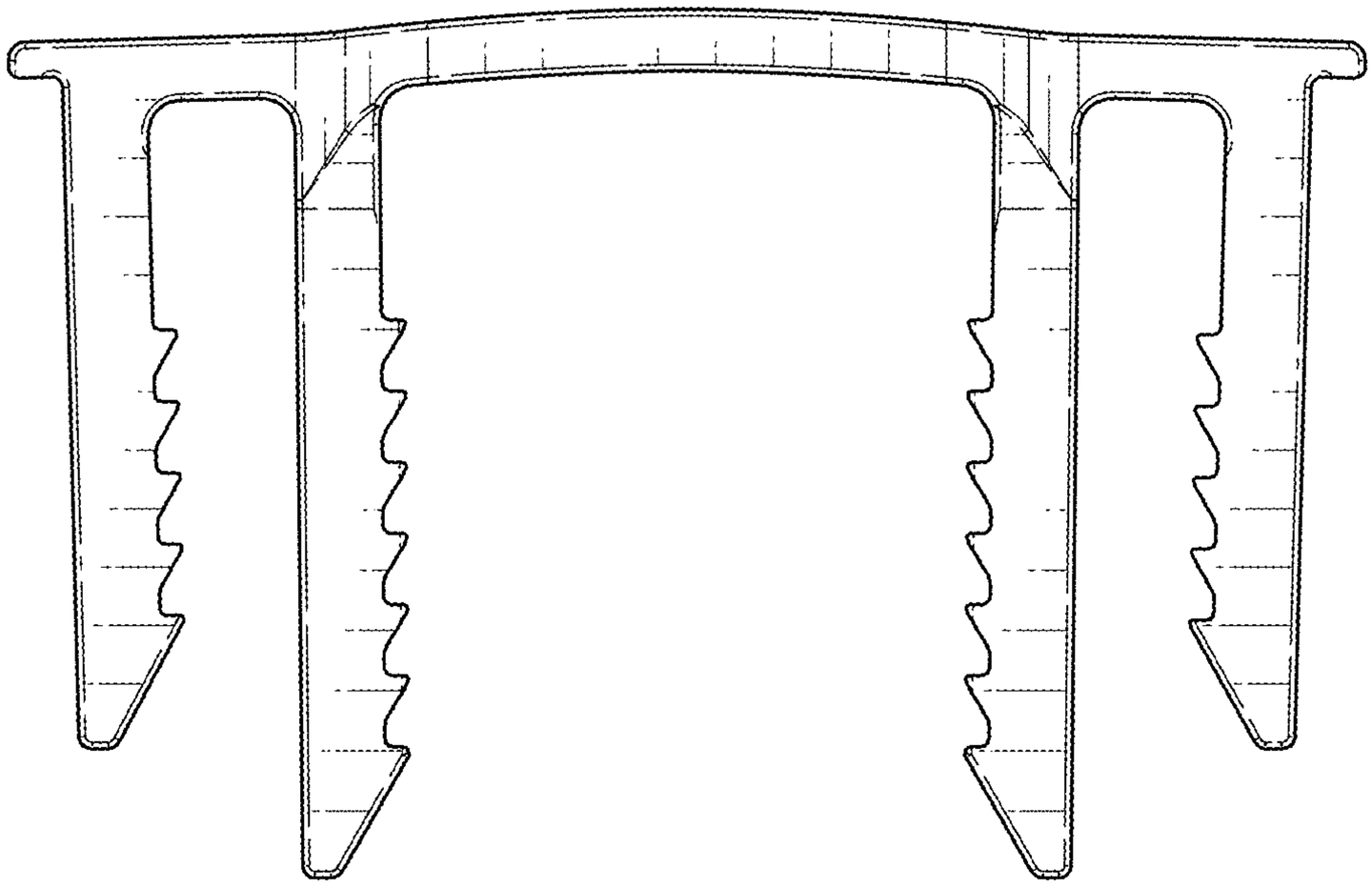


FIG. 21

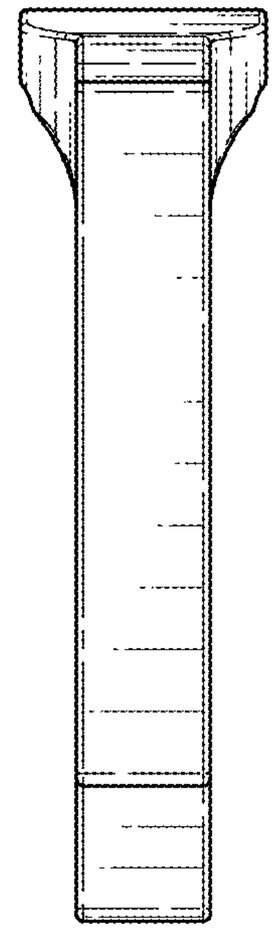


FIG. 22

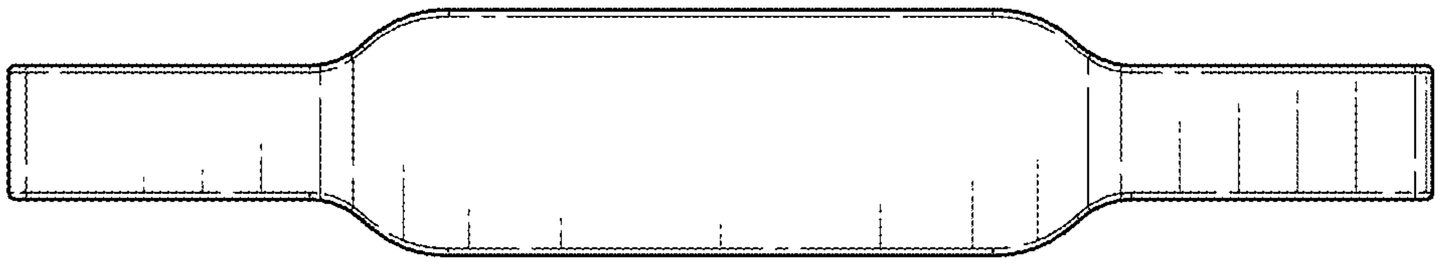


FIG. 23

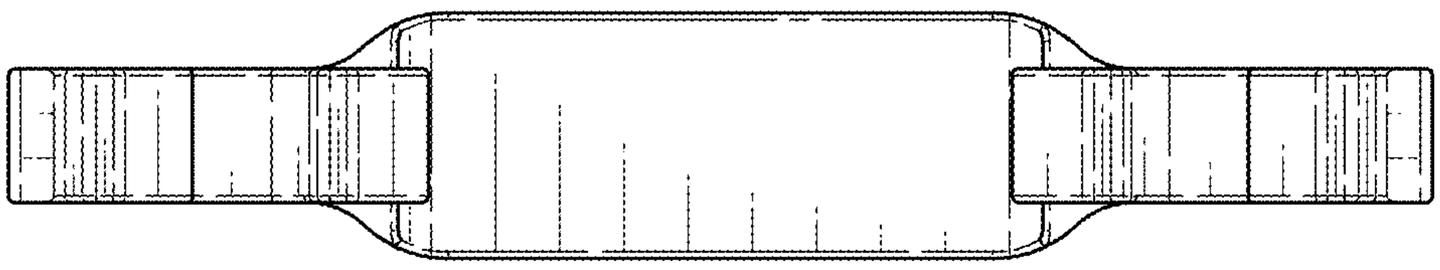


FIG. 24