US00D757943S

(12) United States Design Patent

Arnold et al.

(10) Patent No.: US D757,943 S
(45) Date of Patent: ** *May 31, 2016

(54) **SPINOUS PROCESS PLATE**

(71) Applicant: **NuVasive, Inc.**, San Diego, CA (US)

(72) Inventors: **Benjamin Arnold**, San Diego, CA (US); **Erika Lin**, San Diego, CA (US); **Jeremy Malik**, San Diego, CA (US); **Richard Mueller**, San Diego, CA (US); **Hyun Bae**, Santa Monica, CA (US); **Richard Lazar**

(73) Assignee: **NuVasive, Inc.**, San Diego, CA (US)

(*) Notice: This patent is subject to a terminal disclaimer.

(**) Term: **14 Years**

(21) Appl. No.: **29/489,679**

(22) Filed: **May 1, 2014**

Related U.S. Application Data

(63) Continuation of application No. 13/406,421, filed on Feb. 27, 2012, now abandoned, which is a continuation of application No. 13/183,410, filed on Jul. 14, 2011, now abandoned.

(51) **LOC (10) Cl.** **24-00**

(52) **U.S. Cl.**
USPC **D24/171**

(58) **Field of Classification Search**
USPC ..... D24/171, 155, 170, 221, 216, 223, 224, D24/227, 230, 231; 606/247, 289, 279, 248, 606/249, 250, 86 A, 71; 623/23.47, 23.53
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

267,269	A	11/1882	Smith et al.
2,677,369	A	5/1954	Knowles
3,025,853	A	3/1962	Mason
3,242,922	A	3/1966	Thomas
3,426,364	A	2/1969	Lumb
3,648,691	A	3/1972	Lumb et al.
3,805,219	A	4/1974	Bright
4,143,883	A	3/1979	Paynter
4,448,191	A	5/1984	Rodnyansky et al.
4,554,914	A	11/1985	Kapp et al.
4,570,618	A	2/1986	Wu

(Continued)

Primary Examiner — Holly Baynham
Assistant Examiner — Rhea Shields
(74) *Attorney, Agent, or Firm* — Jonathan Spangler; Jennifer Russell

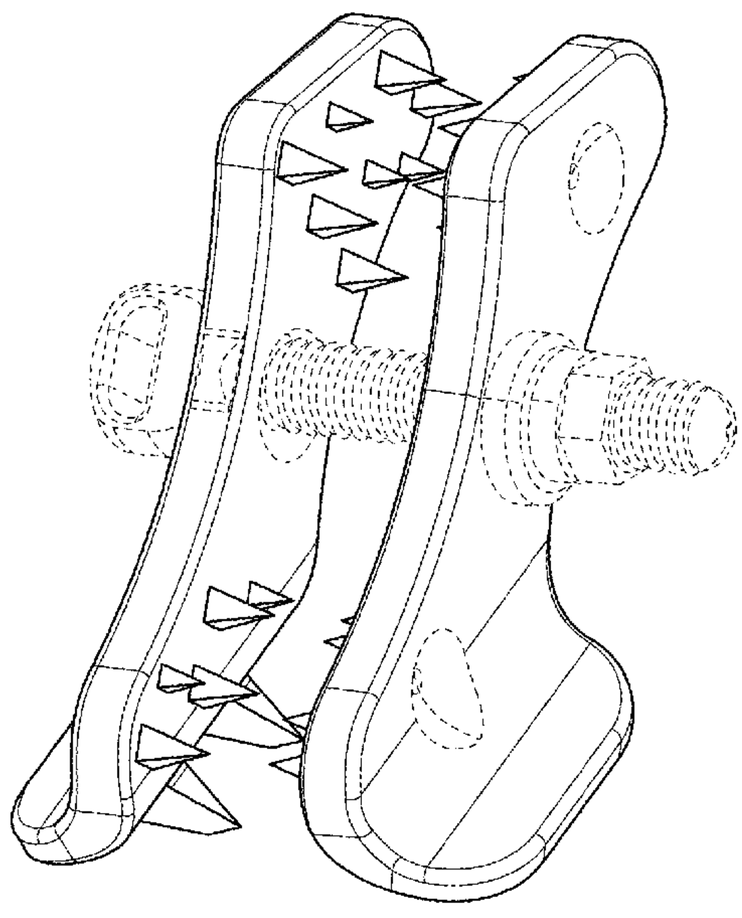
(57) **CLAIM**

The ornamental design for a spinous process plate, substantially as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of a spinous process plate showing our new design;
FIG. **2** is a top view of the spinous process plate of FIG. **1**;
FIG. **3** is a lateral view of a first spinous process plate forming a part of the spinous process plate of FIG. **1**;
FIG. **4** is a medial view of the spinous process plate of FIG. **3**;
FIG. **5** is a lateral view of a second spinous process plate forming a part of the spinous process plate of FIG. **1**;
FIG. **6** is a perspective medial view of the spinous process plate of FIG. **5**;
FIG. **7** is a side view of the plate shown in FIGS. **3** and **4**; and,
FIG. **8** is a medial view of the spinous process plate of FIG. **5**.
In the drawings, the broken lines are for the purpose of illustrating environment only and form no part of the claimed design.

1 Claim, 4 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

4,604,995	A		8/1986	Stephens et al.	
4,643,178	A		2/1987	Nastari et al.	
4,655,462	A		4/1987	Balsells	
4,773,402	A		9/1988	Asher et al.	
4,913,134	A	*	4/1990	Luque	606/289
5,011,484	A		4/1991	Breard	
5,084,049	A		1/1992	Asher et al.	
5,092,866	A		3/1992	Breard et al.	
5,167,662	A		12/1992	Hayes et al.	
5,180,393	A		1/1993	Commarmond	
5,261,914	A		11/1993	Warren	
5,304,178	A		4/1994	Stahurski	
5,352,225	A		10/1994	Yuan et al.	
5,470,333	A		11/1995	Ray	
5,496,318	A		3/1996	Howland et al.	
5,531,747	A		7/1996	Ray	
5,609,634	A		3/1997	Voydeville	
5,645,599	A		7/1997	Samani	
5,722,976	A		3/1998	Brown	
5,836,948	A		11/1998	Zucherman et al.	
6,048,342	A		4/2000	Zucherman et al.	
6,152,926	A	*	11/2000	Zucherman et al.	606/279
6,312,431	B1		11/2001	Asfora	
6,364,883	B1		4/2002	Santilli	
6,582,433	B2		6/2003	Yun	
6,626,944	B1		9/2003	Taylor	
6,641,585	B2		11/2003	Sato et al.	
6,652,527	B2		11/2003	Zucherman et al.	
6,652,534	B2		11/2003	Zucherman et al.	
6,695,842	B2		2/2004	Zucherman et al.	
6,699,246	B2		3/2004	Zucherman et al.	
6,699,247	B2		3/2004	Zucherman et al.	
6,712,819	B2		3/2004	Zucherman et al.	
6,761,720	B1		7/2004	Senegas	
6,796,983	B1		9/2004	Zucherman et al.	
7,048,736	B2		5/2006	Robinson et al.	
7,201,775	B2		4/2007	Gorensek et al.	
7,252,673	B2		8/2007	Lim	
7,306,628	B2		12/2007	Zucherman et al.	
7,361,179	B2		4/2008	Rousseau et al.	
7,520,888	B2		4/2009	Trieu	
7,588,592	B2		9/2009	Winslow et al.	
D603,964	S	*	11/2009	Kriska et al.	D24/155
7,727,233	B2		6/2010	Blackwell et al.	
7,758,274	B2		7/2010	Paul	
7,776,069	B2		8/2010	Taylor	
7,828,847	B2		11/2010	Abdou	
7,837,688	B2		11/2010	Boyer, II et al.	
7,842,074	B2		11/2010	Abdou	
7,871,426	B2	*	1/2011	Chin et al.	606/248
D642,688	S	*	8/2011	Binder	D24/155
8,048,120	B1		11/2011	Fallin et al.	
D653,756	S	*	2/2012	Courtney et al.	D24/155
8,128,659	B2		3/2012	Ginsberg et al.	
8,206,420	B2	*	6/2012	Patel et al.	606/249
8,241,330	B2		8/2012	Lamborne et al.	
8,262,697	B2		9/2012	Kirschman	
8,343,190	B1		1/2013	Mueller et al.	
8,377,097	B2	*	2/2013	Gordon et al.	606/248
8,382,801	B2		2/2013	Lamborne et al.	
8,430,911	B2		4/2013	Chin et al.	
8,496,689	B2		7/2013	Massoudi	
D706,423	S	*	6/2014	Kaufmann et al.	D24/155
8,784,450	B2	*	7/2014	Moskowitz et al.	606/247
D711,537	S	*	8/2014	Pimenta et al.	D24/155
8,795,335	B1	*	8/2014	Abdou et al.	606/247
2001/0021850	A1		9/2001	Zucherman et al.	
2003/0040746	A1		2/2003	Mitchell et al.	
2003/0065330	A1		4/2003	Zucherman et al.	
2003/0094812	A1		5/2003	Balsells	
2003/0216736	A1		11/2003	Robinson et al.	
2003/0236472	A1		12/2003	Van Hoeck et al.	
2004/0260291	A1		12/2004	Jensen	
2005/0033434	A1		2/2005	Berry	
2005/0165398	A1		7/2005	Reiley	
2005/0203512	A1		9/2005	Hawkins et al.	
2005/0203624	A1		9/2005	Serhan et al.	
2006/0036256	A1		2/2006	Carl et al.	
2006/0036258	A1		2/2006	Zucherman et al.	
2006/0064095	A1		3/2006	Senn et al.	
2006/0106381	A1		5/2006	Ferree et al.	
2006/0106397	A1		5/2006	Lins	
2006/0136060	A1		6/2006	Taylor	
2006/0235532	A1		10/2006	Meunier et al.	
2006/0241601	A1		10/2006	Trautwein et al.	
2006/0247633	A1		11/2006	Winslow et al.	
2006/0247640	A1		11/2006	Blackwell et al.	
2006/0293662	A1		12/2006	Boyer, II et al.	
2007/0093823	A1		4/2007	Booth et al.	
2007/0093825	A1		4/2007	Ferree et al.	
2007/0093828	A1		4/2007	Abdou	
2007/0100340	A1		5/2007	Lange et al.	
2007/0173832	A1		7/2007	Tebbe et al.	
2007/0225724	A1		9/2007	Edmond	
2007/0233074	A1		10/2007	Anderson et al.	
2007/0233077	A1		10/2007	Khalili	
2007/0233088	A1		10/2007	Edmond	
2007/0233096	A1		10/2007	Garcia-Bengochea	
2007/0233129	A1		10/2007	Bertagnoli et al.	
2007/0270812	A1		11/2007	Peckham	
2007/0270824	A1		11/2007	Lim et al.	
2007/0270827	A1		11/2007	Lim et al.	
2007/0270874	A1		11/2007	Anderson	
2007/0276370	A1		11/2007	Altarac et al.	
2007/0299445	A1		12/2007	Shadduck et al.	
2008/0027438	A1		1/2008	Abdou	
2008/0033552	A1		2/2008	Lee et al.	
2008/0039837	A1		2/2008	Gambale	
2008/0051896	A1		2/2008	Suddaby	
2008/0114401	A1		5/2008	Liu et al.	
2008/0114455	A1		5/2008	Lange et al.	
2008/0140125	A1		6/2008	Mitchell et al.	
2008/0161818	A1		7/2008	Kloss et al.	
2008/0167655	A1		7/2008	Wang et al.	
2008/0177271	A1		7/2008	Yeh	
2008/0177298	A1		7/2008	Zucherman et al.	
2008/0177391	A1		7/2008	Mitchell et al.	
2008/0234735	A1		9/2008	Joshi	
2008/0269904	A1		10/2008	Voorhies	
2008/0281359	A1		11/2008	Abdou	
2008/0294199	A1		11/2008	Kohm et al.	
2008/0300686	A1		12/2008	Khoo	
2008/0312741	A1		12/2008	Lee et al.	
2009/0054931	A1		2/2009	Metz-Stavenhagen	
2009/0062915	A1		3/2009	Kohm et al.	
2009/0062918	A1		3/2009	Wang et al.	
2009/0082808	A1		3/2009	Butler et al.	
2009/0105773	A1		4/2009	Lange et al.	
2009/0198277	A1		8/2009	Gordon et al.	
2009/0204151	A1		8/2009	Bracken	
2009/0264927	A1		10/2009	Ginsberg et al.	
2009/0326581	A1		12/2009	Galley et al.	
2010/0069965	A1		3/2010	Abdou	
2010/0087869	A1		4/2010	Abdou	
2010/0211101	A1		8/2010	Blackwell et al.	
2010/0211102	A1		8/2010	Belliard et al.	
2010/0318128	A1		12/2010	Abdou	
2011/0004248	A1		1/2011	Abdou	
2011/0022090	A1	*	1/2011	Gordon et al.	606/249
2011/0054531	A1		3/2011	Lamborne et al.	
2011/0066186	A1	*	3/2011	Boyer et al.	606/249
2011/0144692	A1		6/2011	Saladin et al.	
2011/0307011	A1	*	12/2011	Moskowitz et al.	606/249
2011/0319936	A1	*	12/2011	Gordon et al.	606/248
2012/0016418	A1		1/2012	Chin et al.	
2012/0016419	A1		1/2012	Aflatoon	
2012/0065682	A1		3/2012	Duong et al.	
2012/0089184	A1	*	4/2012	Yeh	606/248
2012/0101528	A1		4/2012	Souza et al.	
2012/0109198	A1		5/2012	Dryer et al.	
2012/0109203	A1	*	5/2012	Dryer et al.	606/249
2012/0109205	A1		5/2012	Mitchell et al.	
2012/0136390	A1		5/2012	Butler et al.	
2012/0150228	A1	*	6/2012	Zappacosta et al.	606/248

(56) **References Cited**

U.S. PATENT DOCUMENTS

2012/0191135	A1*	7/2012	Abdou	606/248
2012/0215261	A1	8/2012	Massoudi	
2012/0221050	A1*	8/2012	Ingalhalikar et al.	606/248
2012/0226314	A1	9/2012	Chin et al.	
2012/0245641	A1	9/2012	Mekhail et al.	
2012/0259364	A1	10/2012	Lange	
2012/0290008	A1	11/2012	Kirschman	
2012/0310282	A1	12/2012	Abdou	
2013/0012996	A1	1/2013	Zamani et al.	
2013/0030467	A1	1/2013	Karas et al.	
2013/0060284	A1	3/2013	Abdou	
2013/0072979	A1*	3/2013	Butler et al.	606/248
2013/0103086	A1	4/2013	Marik et al.	
2013/0158604	A1	6/2013	Okamoto	
2013/0184751	A1	7/2013	Siegfried	
2013/0184752	A1*	7/2013	Binder	606/248
2013/0184753	A1*	7/2013	Keiper et al.	606/248
2013/0184754	A1	7/2013	Taber et al.	
2013/0190820	A1	7/2013	Siegfried et al.	
2013/0197581	A1	8/2013	Justis et al.	
2013/0204301	A1	8/2013	Mitchell et al.	
2013/0345753	A1*	12/2013	Kretzer et al.	606/248
2014/0207199	A1*	7/2014	Gordon et al.	606/86 A

* cited by examiner

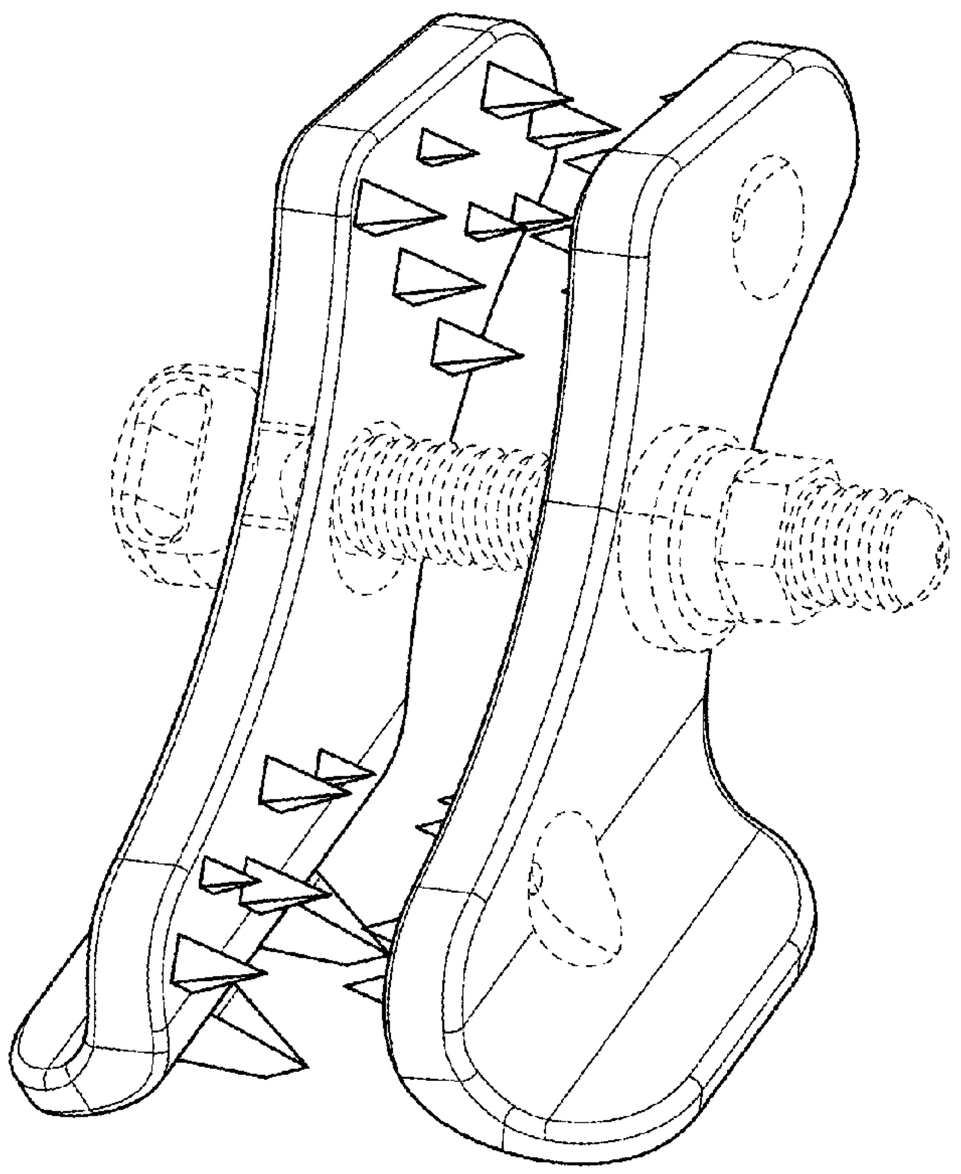


FIG. 1

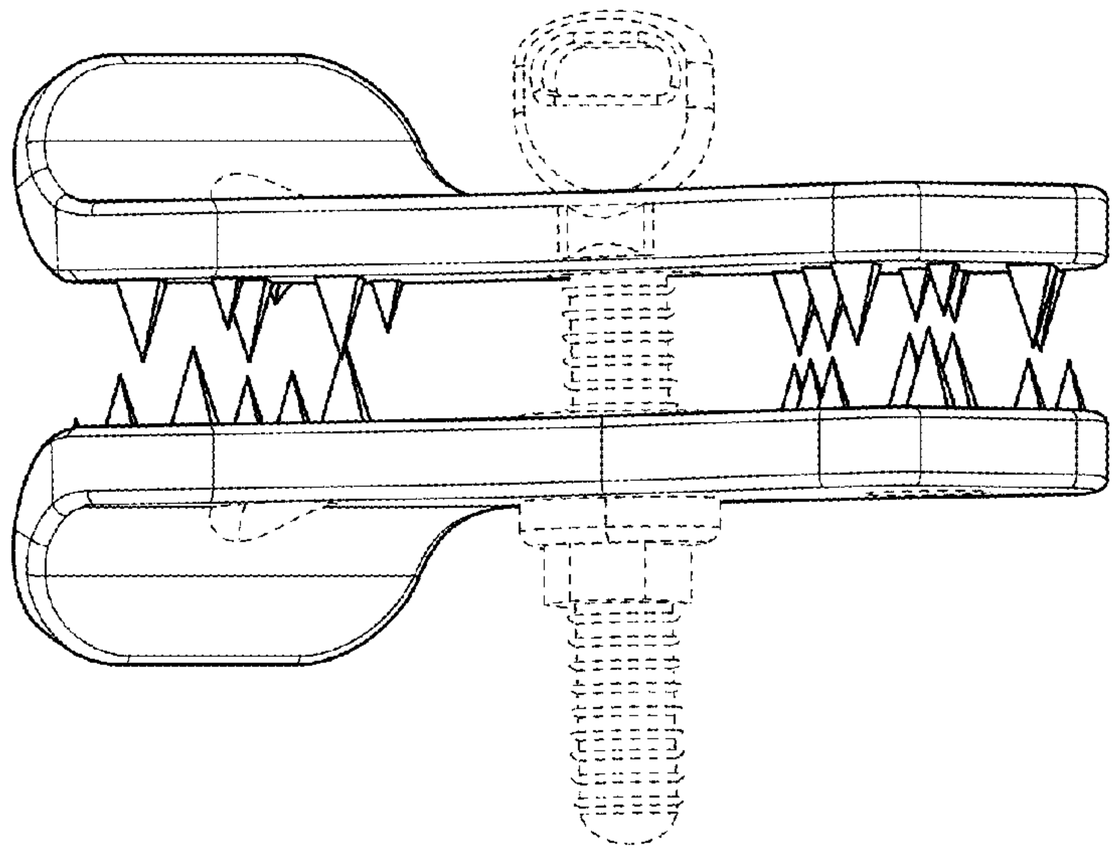


FIG. 2

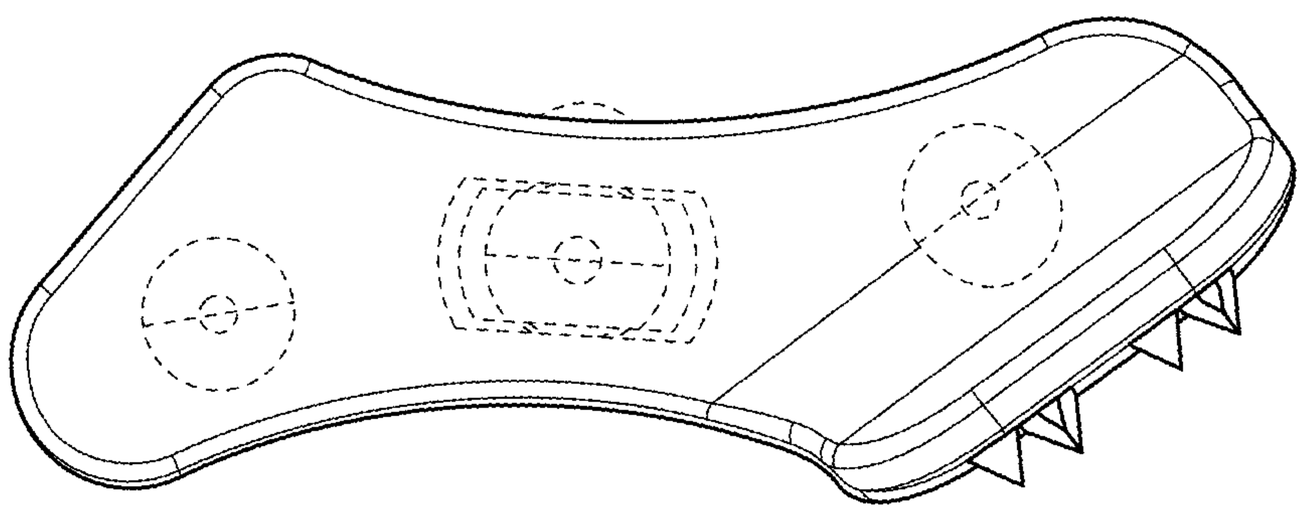


FIG. 3

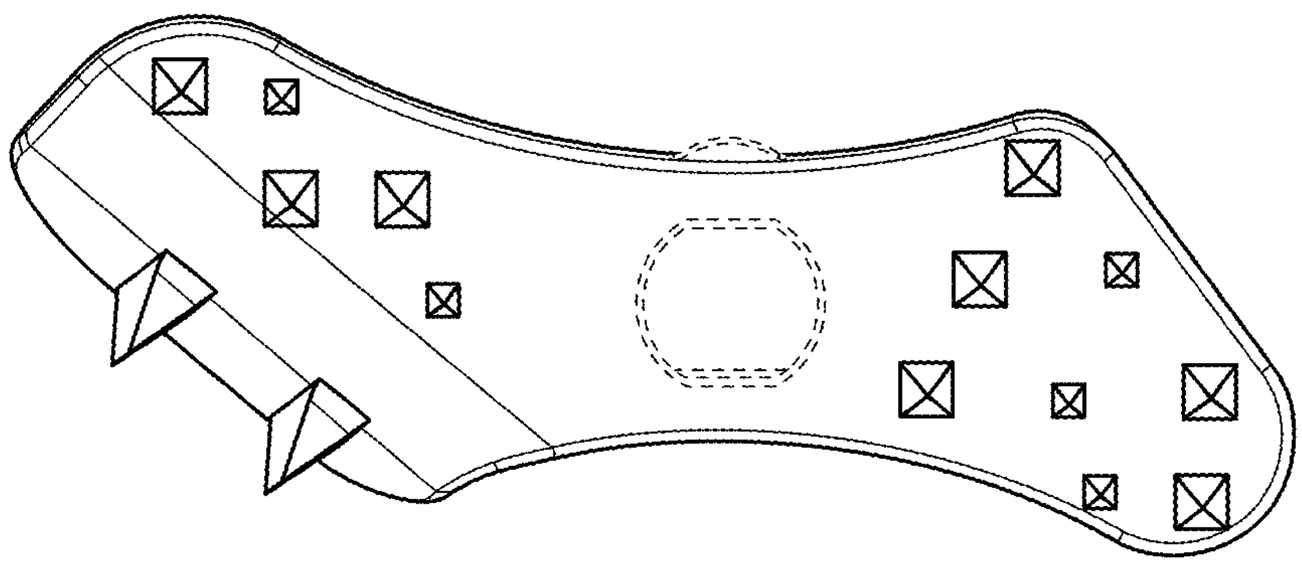


FIG. 4

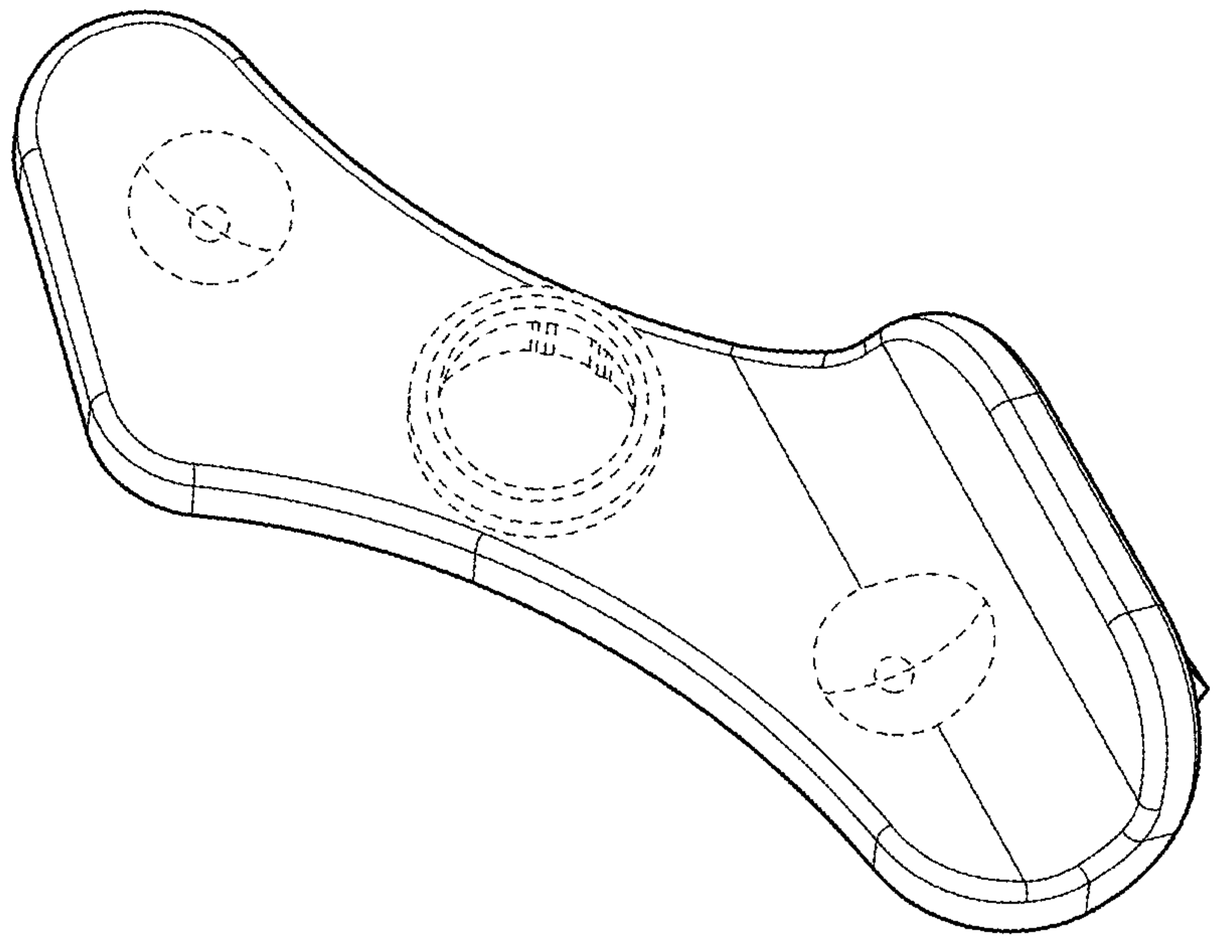


FIG. 5

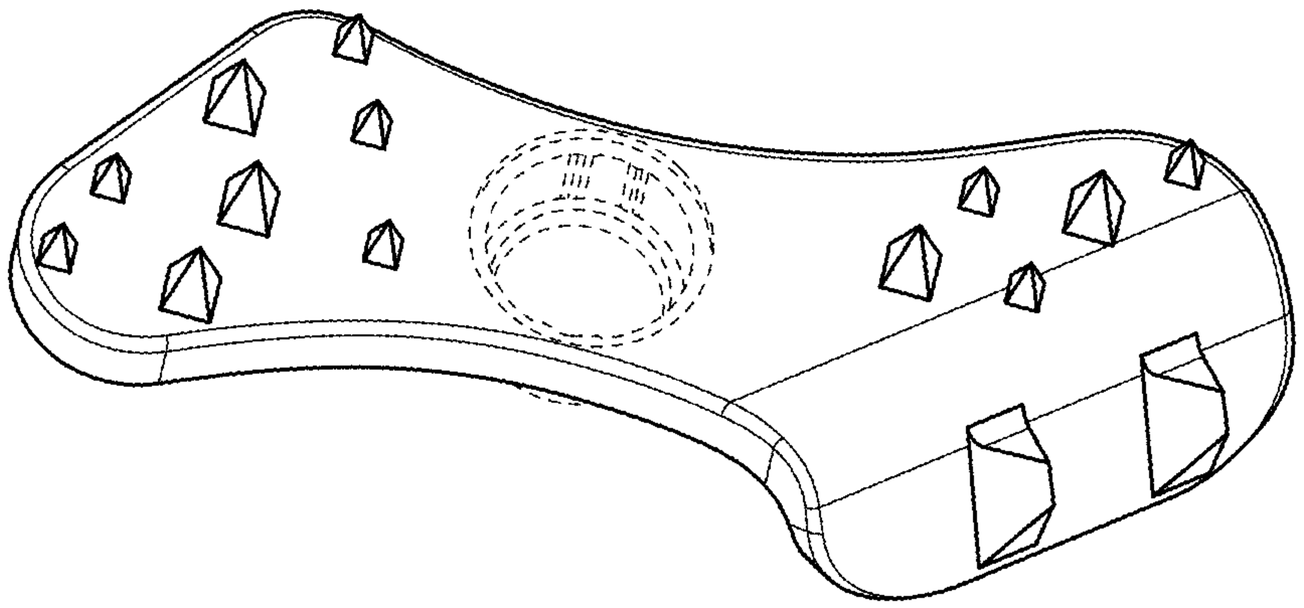


FIG. 6

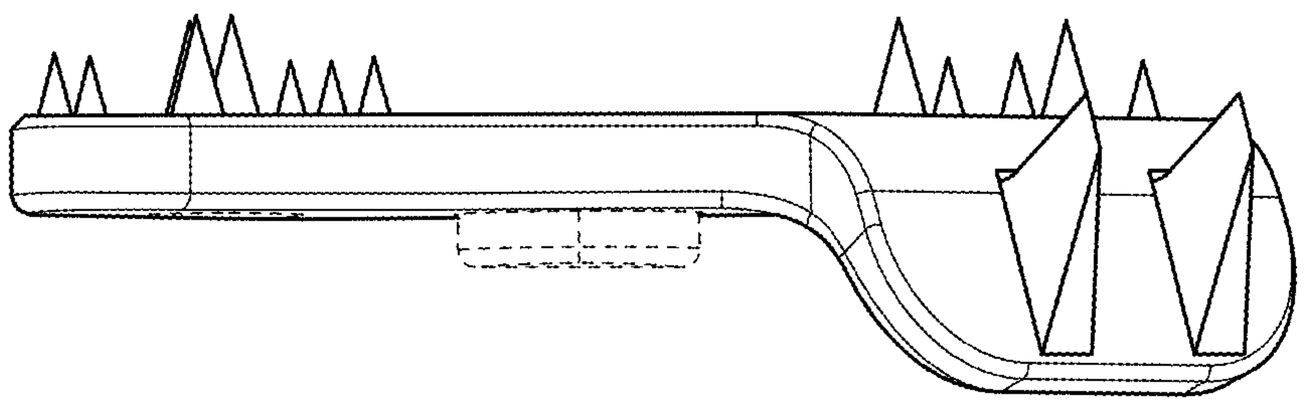


FIG. 7

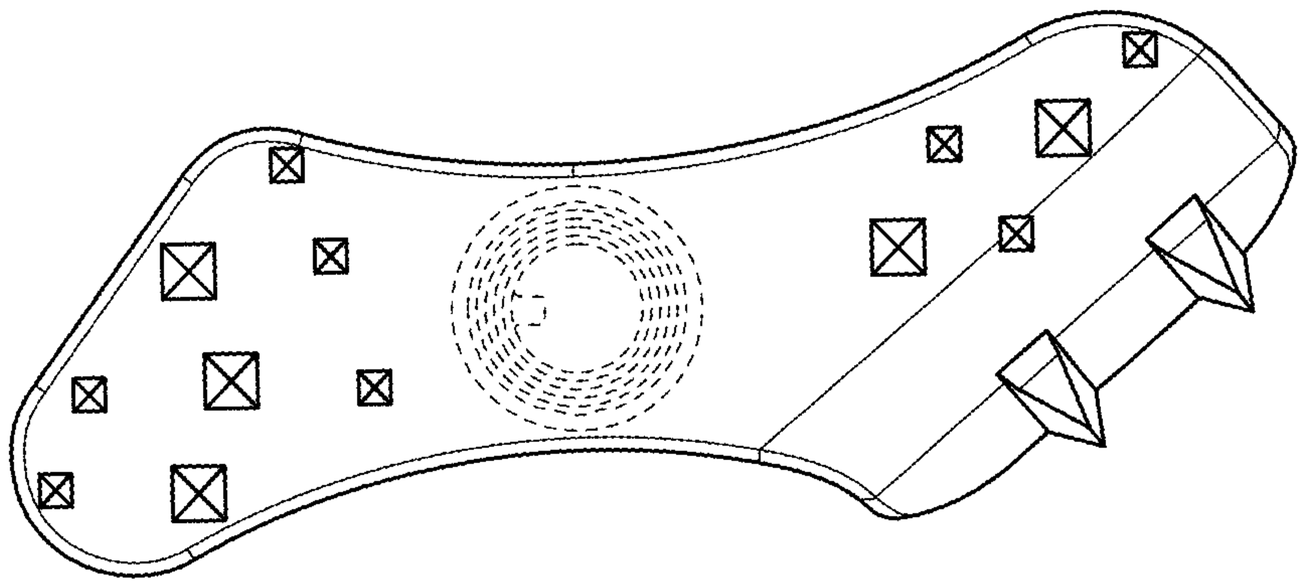


FIG. 8