US00D804014S

(12) United States Design Patent

Armstrong et al.

(10) Patent No.: US D804,014 S
(45) Date of Patent: ** Nov. 28, 2017

(54) **SUCTION ADAPTER**

(71) Applicant: **Smith & Nephew, Inc.**, Memphis, TN (US)

(72) Inventors: **Ed Armstrong**, Palm Harbor, FL (US); **Stephen Gianelis**, Abington, MA (US); **Joseph Gordon**, Mansfield, MA (US); **Mark Guarraia**, Providence, RI (US); **Dan Nelsen**, Central Falls, RI (US); **Michael Salame**, Norwich, CT (US)

(73) Assignee: **Smith & Nephew, Inc.**, Memphis, TN (US)

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

(21) Appl. No.: **29/547,295**

(22) Filed: **Dec. 2, 2015**

Related U.S. Application Data

(63) Continuation of application No. 29/501,203, filed on Sep. 2, 2014, now Pat. No. Des. 746,435, which is a continuation of application No. 29/405,978, filed on Nov. 8, 2011, now Pat. No. Des. 714,433, which is a continuation of application No. PCT/US2010/061938, filed on Dec. 22, 2010.

(51) **LOC (10) Cl.** **24-01**

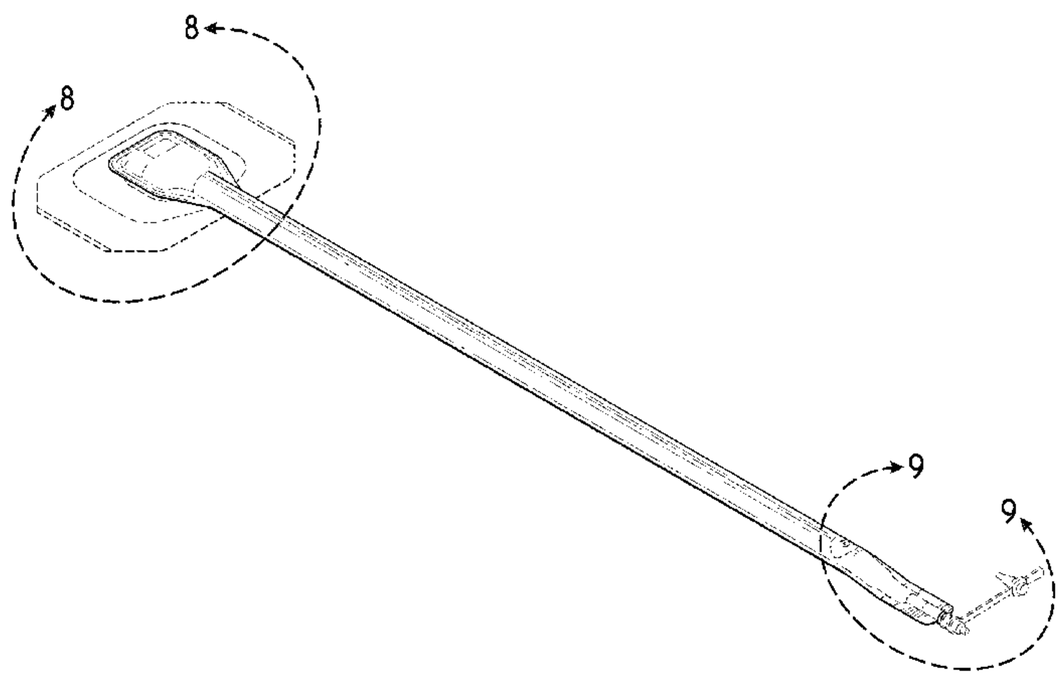
(52) **U.S. Cl.**
USPC **D24/108**

(58) **Field of Classification Search**
USPC D24/107–108, 127, 188
CPC A61M 1/00; A61M 1/0058; A61M 1/0088; A61M 1/0031; A61M 1/023; A61F 13/00068; A61F 13/02; A61F 13/00085; A61F 2013/00536
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,585,104 A 5/1926 Montgomery
2,736,317 A 2/1956 Alexander
3,042,041 A 7/1962 Jascalevich
3,568,675 A 3/1971 Harvey
3,572,340 A 3/1971 Lloyd et al.
3,874,387 A 4/1975 Barbieri
3,880,164 A 4/1975 Stepno
4,080,970 A 3/1978 Miller
4,164,027 A 8/1979 Bonnie et al.
4,231,357 A 11/1980 Hessner
4,261,363 A 4/1981 Russo
4,360,015 A 11/1982 Mayer
4,382,441 A 5/1983 Svedman
4,392,853 A 7/1983 Muto
4,468,219 A 8/1984 George et al.
4,540,412 A 9/1985 Van Overloop
4,553,967 A 11/1985 Ferguson et al.
4,561,435 A 12/1985 McKnight et al.
4,569,674 A 2/1986 Phillips
4,579,120 A 4/1986 MacGregor
4,614,183 A 9/1986 McCracken et al.
4,906,240 A 3/1990 Reed et al.
4,921,492 A 5/1990 Schultz
4,941,882 A 7/1990 Ward et al.
4,969,880 A 11/1990 Zamierowski
4,980,226 A 12/1990 Hellgren et al.
5,009,224 A 4/1991 Cole
5,056,510 A 10/1991 Gilman
5,060,642 A 10/1991 Gilman
5,088,483 A 2/1992 Heinecke
5,106,362 A 4/1992 Gilman
5,112,323 A 5/1992 Winkler et al.
5,134,007 A 7/1992 Reising et al.
5,139,023 A 8/1992 Stanley et al.
5,147,698 A 9/1992 Cole
5,149,331 A 9/1992 Ferdman et al.
5,152,757 A 10/1992 Eriksson
5,160,315 A 11/1992 Heinecke et al.
5,160,334 A 11/1992 Billings et al.
5,176,663 A 1/1993 Svedman et al.
5,230,496 A 7/1993 Shillington et al.
5,244,457 A 9/1993 Karami et al.
5,263,922 A 11/1993 Sova et al.
5,300,054 A 4/1994 Feist et al.
5,304,161 A 4/1994 Noel et al.
5,308,313 A 5/1994 Karami et al.
5,366,451 A 11/1994 Levesque
5,391,161 A 2/1995 Hellgren et al.
5,437,651 A 8/1995 Todd et al.
5,439,458 A 8/1995 Noel et al.
5,447,492 A 9/1995 Cartmell et al.
5,486,167 A 1/1996 Dragoo et al.
5,520,629 A 5/1996 Heinecke et al.
5,525,407 A 6/1996 Yang
5,527,293 A 6/1996 Zamierowski



5,527,923	A	6/1996	Klingler et al.
5,531,855	A	7/1996	Heinecke et al.
5,549,584	A	8/1996	Gross
5,593,750	A	1/1997	Rothrum et al.
5,599,289	A	2/1997	Castellana
5,613,942	A	3/1997	Lucast et al.
5,618,278	A	4/1997	Rothrum
5,624,423	A	4/1997	Anjur et al.
5,636,643	A	6/1997	Argenta et al.
5,637,093	A	6/1997	Hyman et al.
5,645,081	A	7/1997	Argenta et al.
5,678,564	A	10/1997	Lawrence et al.
5,695,846	A	12/1997	Lange et al.
5,701,917	A	12/1997	Khouri
5,738,642	A	4/1998	Heinecke et al.
5,738,656	A	4/1998	Wagner
5,797,844	A	8/1998	Yoshioka et al.
5,797,894	A	8/1998	Cadieux et al.
5,885,237	A	3/1999	Kadash
5,894,608	A	4/1999	Birbara
5,914,282	A	6/1999	Dunshee et al.
5,964,723	A	10/1999	Augustine
6,071,267	A	6/2000	Zamierowski
6,117,111	A	9/2000	Fleischmann
6,121,508	A	9/2000	Bischof et al.
6,142,982	A	11/2000	Hunt et al.
6,149,614	A	11/2000	Dunshee
6,169,224	B1	1/2001	Heinecke et al.
6,264,976	B1	7/2001	Heinecke et al.
6,291,050	B1	9/2001	Cree et al.
6,345,623	B1	2/2002	Heaton et al.
6,406,447	B1	6/2002	Thrash et al.
6,420,622	B1	7/2002	Johnston et al.
6,436,432	B2	8/2002	Heinecke et al.
6,458,109	B1	10/2002	Henley et al.
6,461,467	B2	10/2002	Blatchford et al.
6,471,685	B1	10/2002	Johnson
6,479,073	B1	11/2002	Lucast et al.
6,553,998	B2	4/2003	Heaton et al.
6,566,575	B1	5/2003	Stickels et al.
6,607,799	B1	8/2003	Heinecke et al.
6,648,862	B2	11/2003	Watson
6,685,681	B2	2/2004	Lockwood et al.
6,685,682	B1	2/2004	Heinecke et al.
6,752,794	B2	6/2004	Lockwood et al.
6,755,807	B2	6/2004	Risk et al.
6,814,079	B2	11/2004	Heaton et al.
6,824,533	B2	11/2004	Risk, Jr. et al.
6,838,589	B2	1/2005	Liedtke et al.
6,855,135	B2	2/2005	Lockwood et al.
6,867,342	B2	3/2005	Johnston et al.
6,878,857	B1	4/2005	Chihani et al.
6,903,243	B1	6/2005	Burton
6,936,037	B2	8/2005	Bubb et al.
6,951,553	B2	10/2005	Bubb et al.
6,979,324	B2	12/2005	Bybordi et al.
6,994,702	B1	2/2006	Johnson
6,994,904	B2	2/2006	Joseph et al.
7,004,915	B2	2/2006	Boynton et al.
7,005,143	B2	2/2006	Abuelyaman et al.
7,070,580	B2	7/2006	Nielsen
7,070,584	B2	7/2006	Johnson et al.
7,108,683	B2	9/2006	Zamierowski
7,117,869	B2	10/2006	Heaton et al.
7,128,735	B2	10/2006	Weston
7,183,454	B1	2/2007	Rosenberg
7,195,624	B2	3/2007	Lockwood et al.
7,198,046	B1	4/2007	Argenta
7,216,651	B2	5/2007	Argenta et al.
7,273,054	B2	9/2007	Heaton et al.
7,276,247	B2	10/2007	Fansler et al.
7,279,612	B1	10/2007	Heaton et al.
7,285,576	B2	10/2007	Hyde et al.
7,316,672	B1	1/2008	Hunt et al.
7,338,482	B2	3/2008	Lockwood et al.
7,438,705	B2	10/2008	Karpowicz et al.
7,442,849	B2	10/2008	Heinecke
7,485,112	B2	2/2009	Karpowicz et al.
7,503,910	B2	3/2009	Adahan
7,520,872	B2	4/2009	Biggie et al.
7,534,927	B2	5/2009	Lockwood
7,585,554	B2	9/2009	Johnson et al.
7,586,019	B2	9/2009	Oelund et al.
7,611,500	B1	11/2009	Lina
7,615,036	B2	11/2009	Joshi et al.
7,625,362	B2	12/2009	Boehringer et al.
7,645,269	B2	1/2010	Zamierowski
7,651,484	B2	1/2010	Heaton et al.
7,670,323	B2	3/2010	Hunt et al.
7,678,102	B1	3/2010	Heaton
7,686,785	B2	3/2010	Boehringer et al.
7,723,560	B2	5/2010	Lockwood et al.
7,745,681	B1	6/2010	Ferguson
7,754,937	B2	7/2010	Boehringer et al.
7,758,554	B2	7/2010	Lina et al.
7,759,537	B2	7/2010	Bishop et al.
7,759,539	B2	7/2010	Shaw et al.
7,776,028	B2	8/2010	Miller et al.
7,779,625	B2	8/2010	Joshi et al.
7,781,639	B2	8/2010	Johnston et al.
7,794,438	B2	9/2010	Henley et al.
7,815,616	B2	10/2010	Boehringer et al.
7,846,141	B2	12/2010	Weston
7,857,806	B2	12/2010	Karpowicz et al.
7,862,718	B2	1/2011	Doyen et al.
7,880,050	B2	2/2011	Robinson et al.
7,896,856	B2	3/2011	Petrosenko et al.
7,896,864	B2	3/2011	Lockwood et al.
7,922,703	B2	4/2011	Riesinger
7,942,866	B2	5/2011	Radl et al.
7,951,124	B2	5/2011	Boehringer et al.
7,976,533	B2	7/2011	Larsson
7,981,098	B2	7/2011	Boehringer et al.
8,002,313	B2	8/2011	Singh et al.
8,008,538	B2	8/2011	Ugander
8,021,347	B2	9/2011	Vitaris et al.
8,057,449	B2	11/2011	Sanders et al.
8,083,712	B2	12/2011	Biggie et al.
8,100,887	B2	1/2012	Weston et al.
8,128,607	B2	3/2012	Hu et al.
8,133,211	B2	3/2012	Cavanaugh, II et al.
8,147,468	B2	4/2012	Barta et al.
8,148,596	B2	4/2012	Miau et al.
8,152,785	B2	4/2012	Vitaris
8,158,844	B2	4/2012	McNeil
8,162,907	B2	4/2012	Heagle
8,168,848	B2	5/2012	Lockwood et al.
8,188,331	B2	5/2012	Barta et al.
8,202,261	B2	6/2012	Kazala, Jr. et al.
8,231,580	B2	7/2012	Hansen et al.
8,235,939	B2	8/2012	Johnson et al.
8,241,261	B2	8/2012	Randolph et al.
8,298,200	B2	10/2012	Vess et al.
8,350,115	B2	1/2013	Heaton et al.
8,361,043	B2	1/2013	Hu et al.
8,382,731	B2	2/2013	Johannison
8,439,893	B2	5/2013	Wakabayashi
8,486,051	B2	7/2013	Larsson
8,641,691	B2	2/2014	Fink et al.
8,680,359	B2	3/2014	Robinson et al.
8,690,845	B2 *	4/2014	Long A61M 1/0088 604/317
8,708,998	B2	4/2014	Weston et al.
8,734,410	B2	5/2014	Hall et al.
8,771,244	B2	7/2014	Eckstein et al.
8,777,911	B2	7/2014	Heagle et al.
8,784,392	B2	7/2014	Vess et al.
8,801,684	B2	8/2014	Walti et al.
8,801,685	B2 *	8/2014	Armstrong A61F 13/02 604/319
8,814,842	B2	8/2014	Coulthard et al.
D714,433	S	9/2014	Armstrong et al.
8,843,327	B2	9/2014	Vernon-Harcourt et al.
8,870,837	B2 *	10/2014	Locke A61M 1/0088 604/317
8,926,593	B2	1/2015	Croizat et al.
8,961,481	B2	2/2015	Hu et al.
9,033,942	B2	5/2015	Vess

9,050,398	B2 *	6/2015	Armstrong	A61M 1/0088
D746,435	S	12/2015	Armstrong et al.	
9,327,065	B2 *	5/2016	Albert	A61F 13/02
9,539,373	B2	1/2017	Jones	
9,642,750	B2 *	5/2017	Albert	A61F 13/02
2001/0034223	A1	10/2001	Rieser et al.	
2002/0002209	A1	1/2002	Mork	
2002/0115952	A1	12/2002	Oyaski	
2003/0225347	A1	12/2003	Argenta	
2004/0039415	A1	2/2004	Zamierowski	
2004/0064132	A1	4/2004	Boehringer et al.	
2004/0243073	A1	12/2004	Lockwood et al.	
2005/0020955	A1	1/2005	Sanders et al.	
2005/0065484	A1	3/2005	Watson, Jr.	
2005/0085795	A1	4/2005	Lockwood	
2005/0137539	A1	6/2005	Biggie et al.	
2005/0273066	A1	12/2005	Wittmann	
2006/0009744	A1	1/2006	Erdman et al.	
2006/0025727	A1	2/2006	Boehringer	
2006/0036221	A1	2/2006	Watson	
2006/0079852	A1	4/2006	Bubb et al.	
2006/0100586	A1	5/2006	Karpowicz	
2007/0032763	A1	2/2007	Vogel	
2007/0038172	A1	2/2007	Zamierowski	
2007/0156104	A1	7/2007	Lockwood et al.	
2007/0219497	A1	9/2007	Johnson et al.	
2007/0233022	A1	10/2007	Henley et al.	
2008/0071214	A1	3/2008	Locke	
2008/0103489	A1	5/2008	Dahners	
2008/0108977	A1	5/2008	Heaton et al.	
2008/0161778	A1	7/2008	Steward	
2008/0167593	A1	7/2008	Fleischmann	
2008/0195017	A1	8/2008	Robinson et al.	
2008/0200906	A1	8/2008	Sanders et al.	
2008/0208147	A1	8/2008	Argenta et al.	
2008/0243096	A1	10/2008	Svedman	
2008/0275409	A1	11/2008	Kane	
2008/0281281	A1	11/2008	Meyer et al.	
2008/0287892	A1	11/2008	Khan et al.	
2008/0294147	A1	11/2008	Radl et al.	
2008/0300578	A1	12/2008	Freedman	
2008/0306456	A1	12/2008	Riesinger	
2009/0005744	A1	1/2009	Karpowicz et al.	
2009/0093778	A1	4/2009	Svedman	
2009/0099519	A1	4/2009	Kaplan	
2009/0124988	A1	5/2009	Coulthard	
2009/0131892	A1	5/2009	Karpowicz et al.	
2009/0137973	A1	5/2009	Karpowicz et al.	
2009/0143753	A1	6/2009	Blott et al.	
2009/0157016	A1	6/2009	Adahan	
2009/0171288	A1	7/2009	Wheeler	
2009/0192467	A1	7/2009	Hansen et al.	
2009/0227968	A1	9/2009	Vess	
2009/0227969	A1	9/2009	Jaeb	
2009/0234306	A1	9/2009	Vitaris	
2009/0234307	A1	9/2009	Vitaris	
2009/0293887	A1	12/2009	Wilkes et al.	
2009/0299249	A1	12/2009	Wilkes et al.	
2009/0299251	A1	12/2009	Buan	
2009/0299255	A1	12/2009	Kazala, Jr. et al.	
2009/0299257	A1	12/2009	Long et al.	
2009/0299303	A1	12/2009	Seegert	
2009/0299308	A1	12/2009	Kazala et al.	
2009/0299340	A1	12/2009	Kazala et al.	
2010/0016767	A1	1/2010	Jones et al.	
2010/0036334	A1	2/2010	Heagle et al.	
2010/0069850	A1	3/2010	Fabo	
2010/0069858	A1	3/2010	Olson	
2010/0069863	A1	3/2010	Olson	
2010/0069885	A1	3/2010	Stevenson et al.	
2010/0069886	A1	3/2010	Wilkes	
2010/0087767	A1	4/2010	McNeil	
2010/0094234	A1	4/2010	Ramella et al.	
2010/0106106	A1	4/2010	Heaton et al.	
2010/0106188	A1	4/2010	Heaton et al.	
2010/0125258	A1	5/2010	Coulthard et al.	
2010/0125259	A1	5/2010	Olson	
2010/0152639	A1	6/2010	Miau et al.	
2010/0160878	A1	6/2010	Hunt et al.	
2010/0160901	A1	6/2010	Hu et al.	
2010/0191198	A1	7/2010	Heagle	
2010/0210986	A1	8/2010	Sanders	
2010/0262091	A1	10/2010	Larsson	
2010/0268128	A1	10/2010	Randolph	
2010/0305524	A1	12/2010	Vess et al.	
2010/0324510	A1	12/2010	Andresen et al.	
2010/0324516	A1	12/2010	Braga et al.	
2011/0028919	A1	2/2011	Johnnison et al.	
2011/0028920	A1	2/2011	Johannison	
2011/0125066	A1	5/2011	Robinson et al.	
2011/0125110	A1	5/2011	Cotton et al.	
2011/0230849	A1	9/2011	Coulthard et al.	
2012/0116334	A1	5/2012	Albert et al.	
2012/0143156	A1	6/2012	Bannister et al.	
2013/0172835	A1	7/2013	Braga et al.	
2013/0310809	A1	11/2013	Armstrong et al.	
2013/0317463	A1	11/2013	Yao et al.	
2014/0107599	A1	4/2014	Fink et al.	
2014/0236108	A1	8/2014	Heaton	
2014/0323997	A1	10/2014	Heagle et al.	
2014/0330224	A1	11/2014	Albert et al.	
2014/0330225	A1	11/2014	Hall et al.	
2014/0330227	A1	11/2014	Coulthard et al.	
2015/0018785	A1	1/2015	Vess et al.	
2015/0190288	A1	7/2015	Dunn et al.	
2015/0343194	A1 *	12/2015	Armstrong	A61M 1/0088 604/543
2016/0151548	A1	6/2016	Albert et al.	
2016/0375184	A1	12/2016	Albert et al.	

FOREIGN PATENT DOCUMENTS

DE	3 907 007	9/1990
DE	20 2010 009 148	10/2010
EP	0 325 771	8/1989
EP	1 018 967	7/2000
EP	0 690 706	11/2000
EP	1 088 569	4/2001
EP	1 129 734	9/2001
EP	0 853 950 B1	10/2002
EP	0 880 953	10/2003
EP	1 219 311	7/2004
EP	1 440 667	7/2004
EP	1 637 088	3/2006
EP	1 284 777	4/2006
EP	0 982 015	8/2006
EP	1 772 160	4/2007
EP	1 476 217	3/2008
EP	1 906 903	4/2008
EP	2 079 507	4/2008
EP	2 218 431	4/2008
EP	1 920 791	5/2008
EP	1 957 018	8/2008
EP	1 977 776	10/2008
EP	1 993 491	11/2008
EP	2 052 750	4/2009
EP	2 109 473	10/2009
EP	2 138 139	12/2009
EP	1 652 549	1/2010
EP	1 905 465	1/2010
EP	2 127 690	3/2010
EP	2 167 157	3/2010
EP	2 172 164	4/2010
EP	2 203 137	7/2010
EP	2 244 217	10/2010
EP	2 244 746	11/2010
GB	2 307 180	5/1997
GB	2 431 351	4/2007
WO	WO 94/03214	2/1994
WO	WO 94/21207	9/1994
WO	WO 94/23678	10/1994
WO	WO 99/01173	1/1999
WO	WO 00/07653	2/2000
WO	WO 00/61206	10/2000
WO	WO 01/85228	11/2001
WO	WO 01/85248	11/2001
WO	WO 02/43634	6/2002
WO	WO 02/070040	9/2002

WO	WO 03/045492	6/2003
WO	WO 03/057070	7/2003
WO	WO 03/073970	9/2003
WO	WO 03/086232	10/2003
WO	WO 03/092620	11/2003
WO	WO 03/101508	12/2003
WO	WO 2004/018020	3/2004
WO	WO 2004/037334	5/2004
WO	WO 2004/041064	5/2004
WO	WO 2004/060148	7/2004
WO	WO 2005/105180	1/2005
WO	WO 2005/009488	2/2005
WO	WO 2005/016179	2/2005
WO	WO 2005/025447	3/2005
WO	WO 2005/046760	5/2005
WO	WO 2005/046761	5/2005
WO	WO 2005/046762	5/2005
WO	WO 2005/051461	6/2005
WO	WO 2005/061025	7/2005
WO	WO 2005/072789	8/2005
WO	WO 2005/079718	9/2005
WO	WO 2005/102415	11/2005
WO	WO 2005/105174	11/2005
WO	WO 2005/105175	11/2005
WO	WO 2005/105176	11/2005
WO	WO 2005/105179	11/2005
WO	WO 2005/115497	12/2005
WO	WO 2005/115523	12/2005
WO	WO 2005/123170	12/2005
WO	WO 2006/046060	5/2006
WO	WO 2006/052338	5/2006
WO	WO 2006/052745	5/2006
WO	WO 2006/056408	6/2006
WO	WO 2006/114637	11/2006
WO	WO 2006/114638	11/2006
WO	WO 2006/114648	11/2006
WO	WO 2007/006306	1/2007
WO	WO 2007/013049	2/2007
WO	WO 2007/013064	2/2007
WO	WO 2007/015964	2/2007
WO	WO 2007/019038	2/2007
WO	WO 2007/030598	3/2007
WO	WO 2007/030599	3/2007
WO	WO 2007/030601 A2	3/2007
WO	WO 2007/031757	3/2007
WO	WO 2007/031762	3/2007
WO	WO 2007/031765	3/2007
WO	WO 2007/041642	4/2007
WO	WO 2007/062024	5/2007
WO	WO 2007/067685	6/2007
WO	WO 2007/084792	7/2007
WO	WO 2007/085396	8/2007
WO	WO 2007/087808	8/2007
WO	WO 2007/087809	8/2007
WO	WO 2007/087811	8/2007
WO	WO 2007/092397	8/2007
WO	WO 2007/095180	8/2007
WO	WO 2007/106590	9/2007
WO	WO 2007/106591	9/2007
WO	WO 2007/133618	11/2007
WO	WO 2007/143060	12/2007
WO	WO 2008/008032	1/2008
WO	WO 2008/010094	1/2008
WO	WO 2008/011774	1/2008
WO	WO 2008/012278	1/2008
WO	WO 2008/013896	1/2008
WO	WO 2008/014358	1/2008
WO	WO 2008/016304	2/2008
WO	WO 2008/027449	3/2008
WO	WO 2008/036162	3/2008
WO	WO 2008/040020	4/2008
WO	WO 2008/041926	4/2008
WO	WO 2008/043067	4/2008
WO	WO 2008/048527	4/2008
WO	WO 2008/064502	6/2008
WO	WO 2008/086397	7/2008
WO	WO 2008/100437	8/2008
WO	WO 2008/100440	8/2008
WO	WO 2008/100446	8/2008
WO	WO 2008/112304	9/2008
WO	WO 2008/131895	11/2008
WO	WO 2008/132215	11/2008
WO	WO 2008/135997	11/2008
WO	WO 2008/141470	11/2008
WO	WO 2008/154158	12/2008
WO	WO 2009/002260	12/2008
WO	WO 2009/004370	1/2009
WO	WO 2009/016603	2/2009
WO	WO 2009/016605	2/2009
WO	WO 2009/019229	2/2009
WO	WO 2009/021047	2/2009
WO	WO 2009/021353	2/2009
WO	WO 2009/034322	3/2009
WO	WO 2009/062327	5/2009
WO	WO 2009/066104	5/2009
WO	WO 2009/066106	5/2009
WO	WO 2009/067711	5/2009
WO	WO 2009/068665	6/2009
WO	WO 2009/071926	6/2009
WO	WO 2009/071929	6/2009
WO	WO 2009/071932	6/2009
WO	WO 2009/071933	6/2009
WO	WO 2009/071935	6/2009
WO	WO 2009/071948	6/2009
WO	WO 2009/078790	6/2009
WO	WO 2009/086580	7/2009
WO	WO 2009/088925	7/2009
WO	WO 2009/114624	9/2009
WO	WO 2009/114760	9/2009
WO	WO 2009/114790	9/2009
WO	WO 2009/124473	10/2009
WO	WO 2009/124548	10/2009
WO	WO 2009/126102	10/2009
WO	WO 2009/126103	10/2009
WO	WO 2009/137194	11/2009
WO	WO 2009/145703	12/2009
WO	WO 2009/146441	12/2009
WO	WO 2009/158123	12/2009
WO	WO 2009/158125	12/2009
WO	WO 2009/158126	12/2009
WO	WO 2009/158127	12/2009
WO	WO 2009/158129	12/2009
WO	WO 2009/158130	12/2009
WO	WO 2010/033271	3/2010
WO	WO 2010/035017	4/2010
WO	WO 2010/042240	4/2010
WO	WO 2010/051073	5/2010
WO	WO 2010/072395	7/2010
WO	WO 2010/085270	7/2010
WO	WO 2010/094957	8/2010
WO	WO 2010/147533	12/2010
WO	WO 2010/147592	12/2010
WO	WO 2011/087871	7/2011
WO	WO 2011/091052	8/2011
WO	WO 2012/087376	6/2012

OTHER PUBLICATIONS

European Office Action, re EP Application 10 798 935.2, dated Jun. 20, 2016.

U.S. Appl. No. 14/261,296, filed Apr. 24, 2014, Heagle.

KCI V.A.C. GranuFoam Bridge Dressing Product Brochure (2009) in 2 pages.

Fleischmann et al., "Vacuum Sealing: Indication, Technique, And Results", Eur J Orthop Surg Traumatol, (1995) 5:37-40.

Greer, et al., Techniques for Applying Subatmospheric Pressure Dressing to Wounds in Difficult Regions of Anatomy, JWOCN, vol. 26, No. 5, 1999 pp. 250-253.

International Preliminary Report on Patentability for PCT/US2010/061938 dated Jun. 26, 2012.

International Search Report and Written Opinion for PCT/US2010/061938 dated Sep. 8, 2011.

Jeter, K. "Managing Draining Wounds and Fistulae: New and Established Methods" Chronic Wound Care pp. 240-246, 1990.

* cited by examiner

Primary Examiner — Wan Laymon
(74) *Attorney, Agent, or Firm* — Knobbe, Martens, Olson & Bear LLP

(57) **CLAIM**

The ornamental design for a suction adapter, as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of one embodiment of a suction adapter.
FIG. **2** is a top plan view of the suction adapter of FIG. **1**.
FIG. **3** is a bottom view of the suction adapter of FIG. **1**.
FIG. **4** is a front view of the suction adapter of FIG. **1**.
FIG. **5** is a rear view of the suction adapter of FIG. **1**.
FIG. **6** is a right side view of the suction adapter of FIG. **1**.
FIG. **7** is a left side view of the suction adapter of FIG. **1**.
FIG. **8** is an enlarged fragmentary perspective view of portion **8** of the suction adapter of FIG. **1**.
FIG. **9** is an enlarged fragmentary perspective view of portion **9** of the suction adapter of FIG. **1**.
FIG. **10** is a perspective view of another embodiment of a suction adapter.
FIG. **11** is a top plan view of the suction adapter of FIG. **10**.
FIG. **12** is a bottom view of the suction adapter of FIG. **10**.
FIG. **13** is a front view of the suction adapter of FIG. **10**.
FIG. **14** is a rear view of the suction adapter of FIG. **10**.
FIG. **15** is a right side view of the suction adapter of FIG. **10**.
FIG. **16** is a left side view of the suction adapter of FIG. **10**.
FIG. **17** is an enlarged fragmentary perspective view of portion **17** of the suction adapter of FIG. **10**; and,
FIG. **18** is an enlarged fragmentary perspective view of portion **18** of the suction adapter of FIG. **10**.
The figures include broken, solid and dash-dot-dash lines. The areas within the solid lines form the claimed design. Dash-dot-dash lines illustrate boundaries that form no part of the claimed design, and portions of the suction adapter bounded by the dash-dot-dash lines form no part of the claimed design. Broken lines illustrate the environment and form no part of the claimed design.

1 Claim, 10 Drawing Sheets

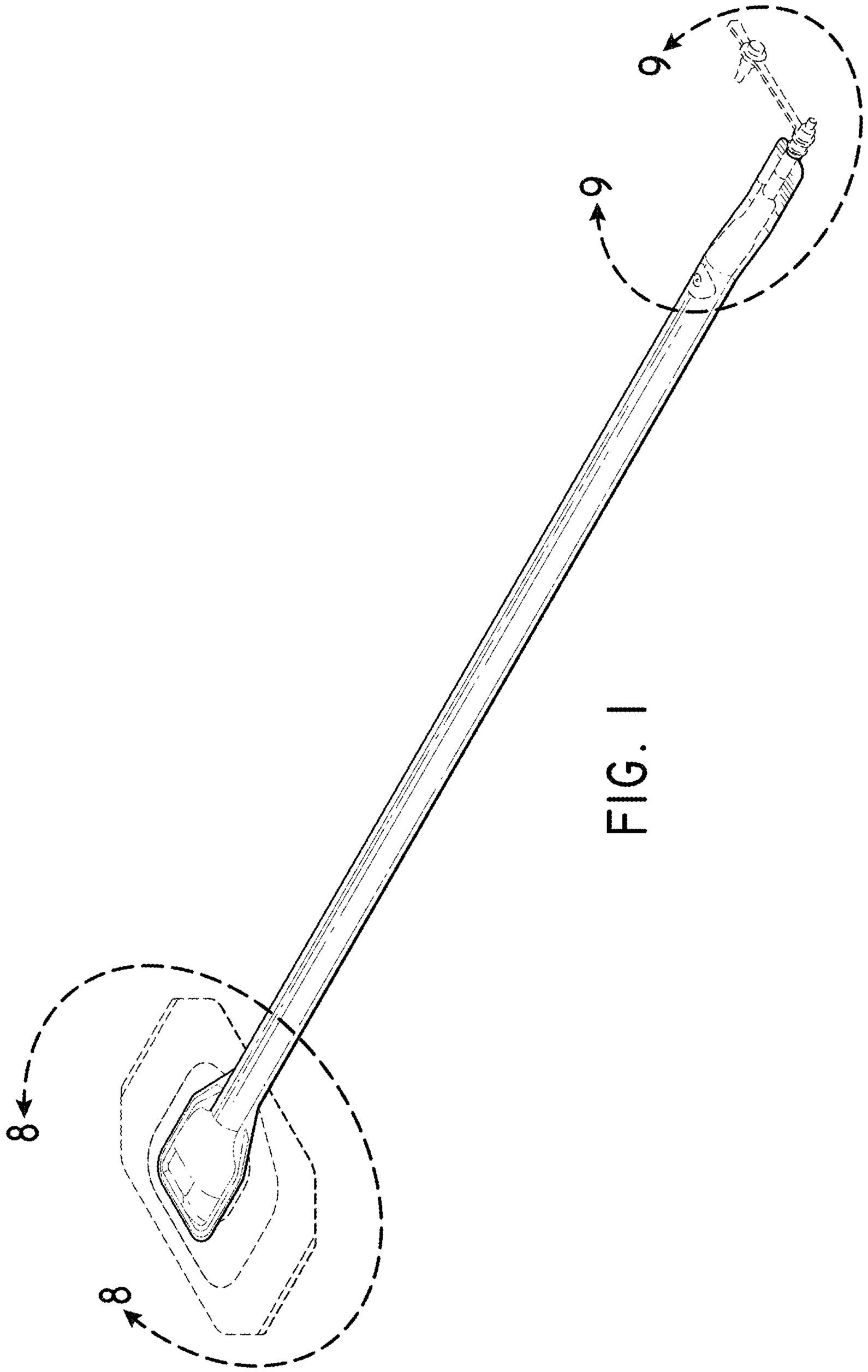


FIG. 1

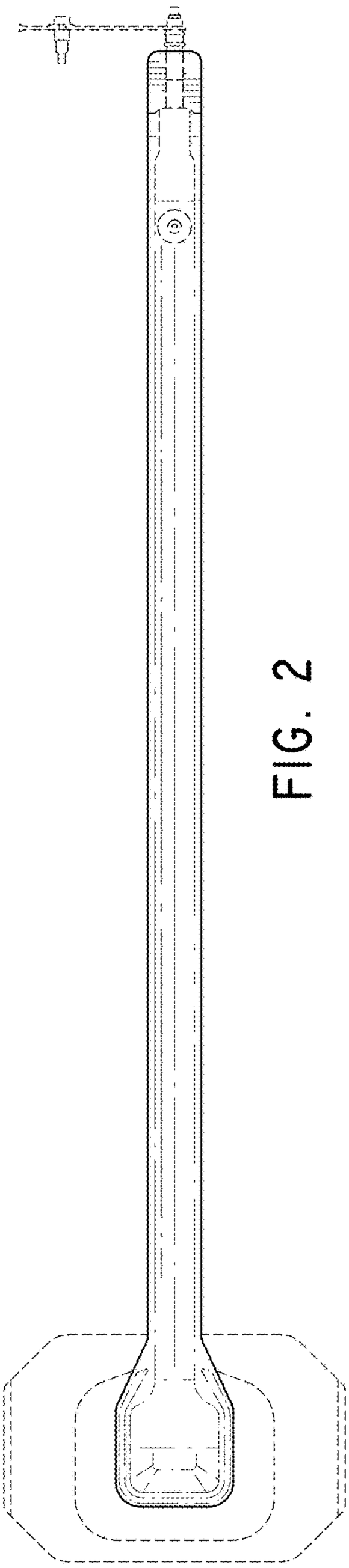


FIG. 2

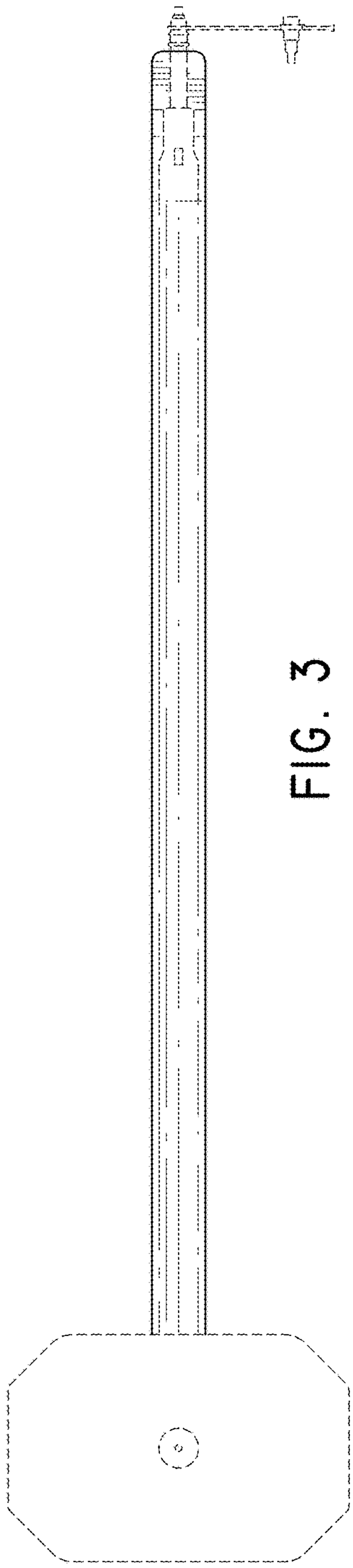


FIG. 3

FIG. 5

FIG. 4

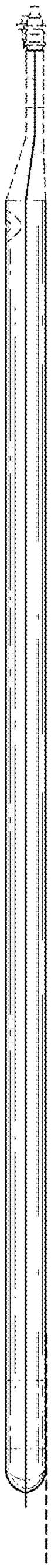


FIG. 6

FIG. 7

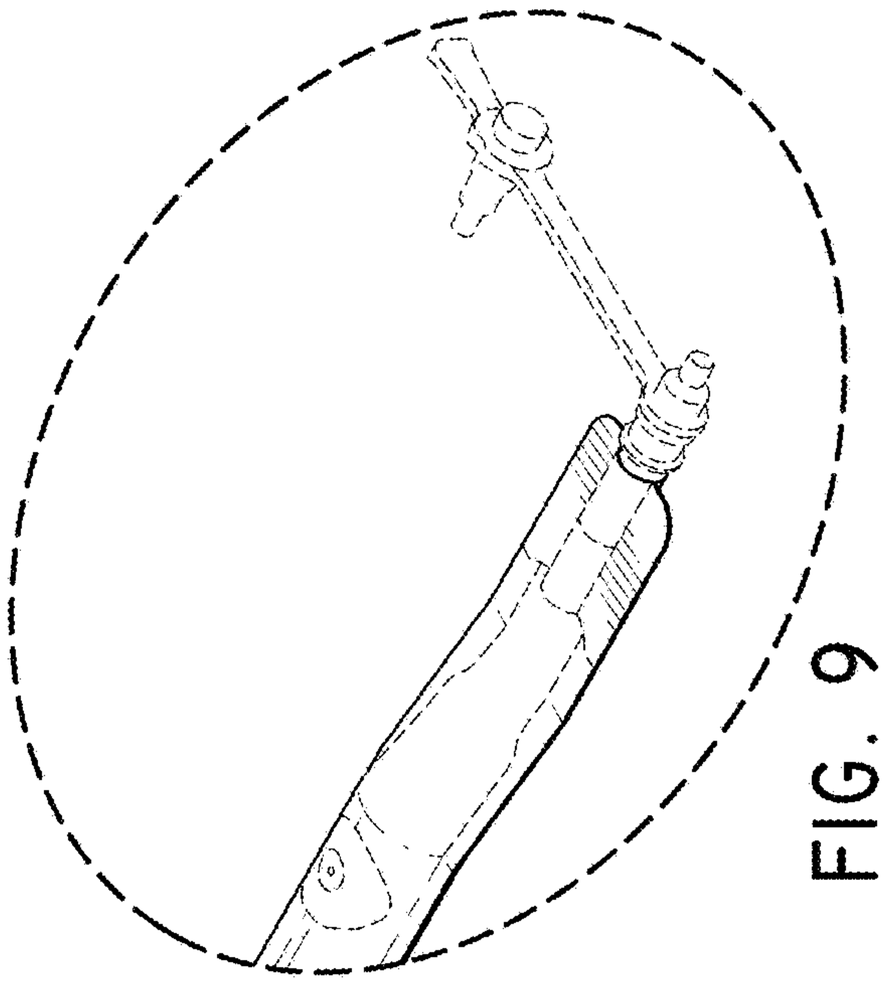


FIG. 9

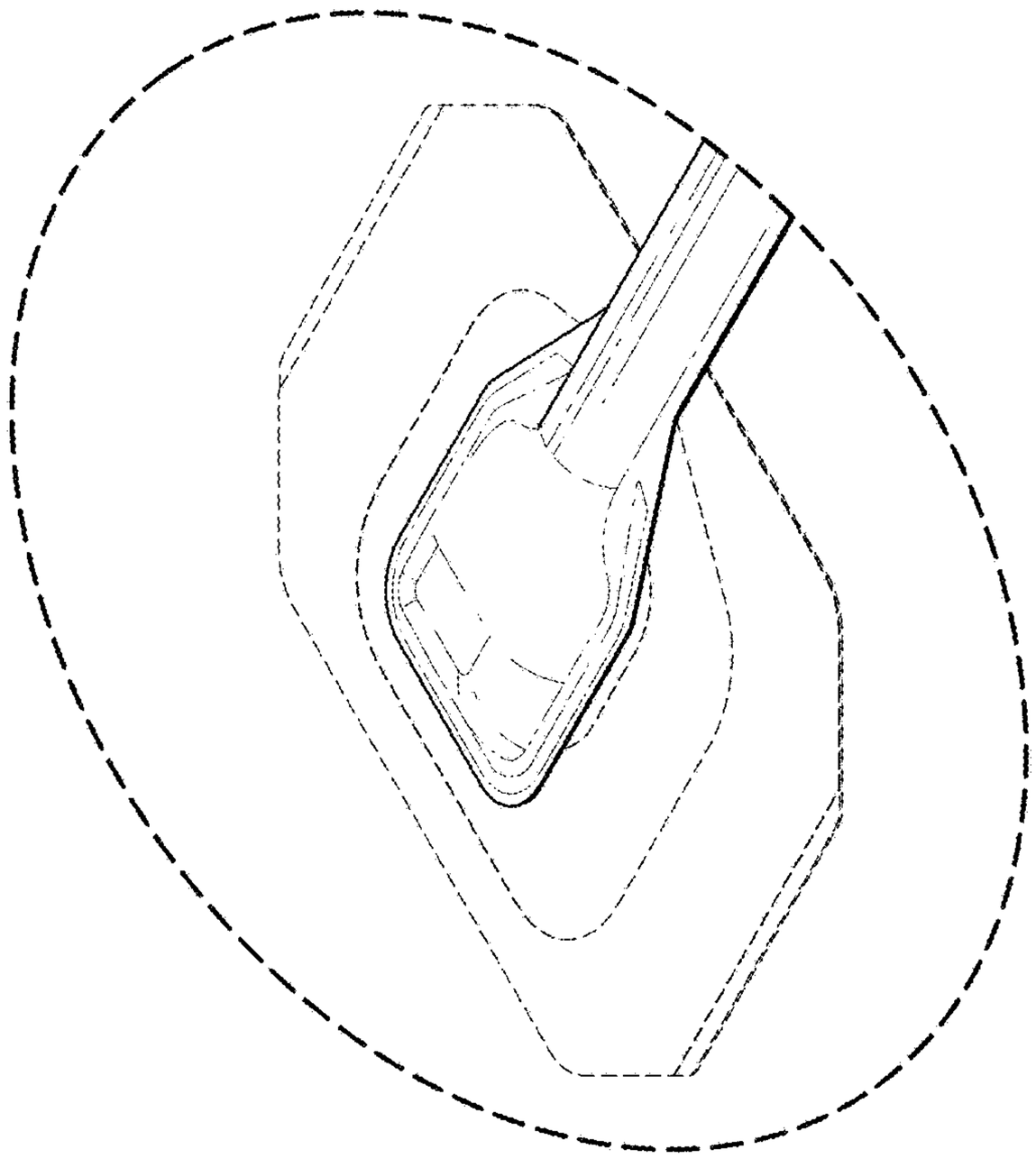


FIG. 8

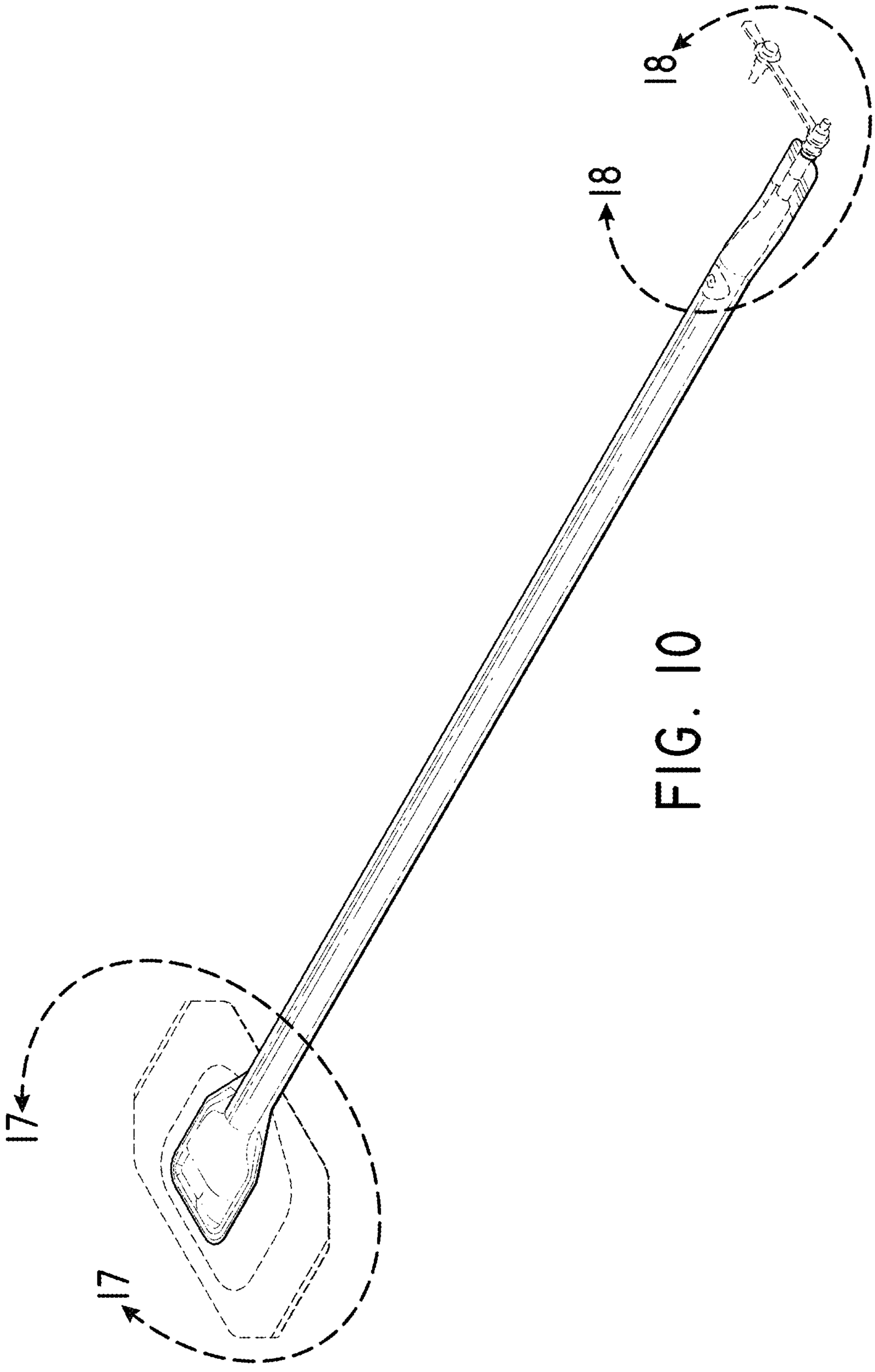


FIG. 10

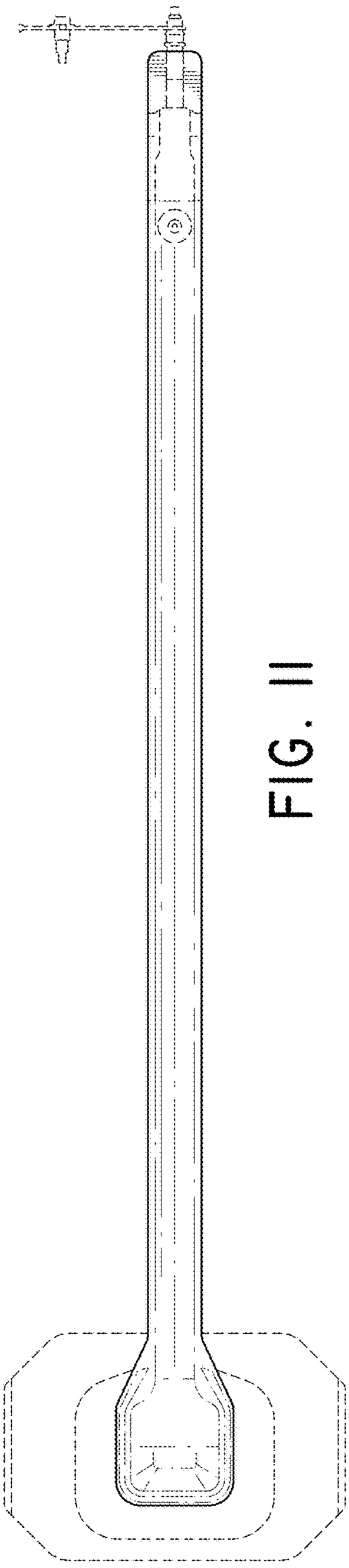


FIG. 11

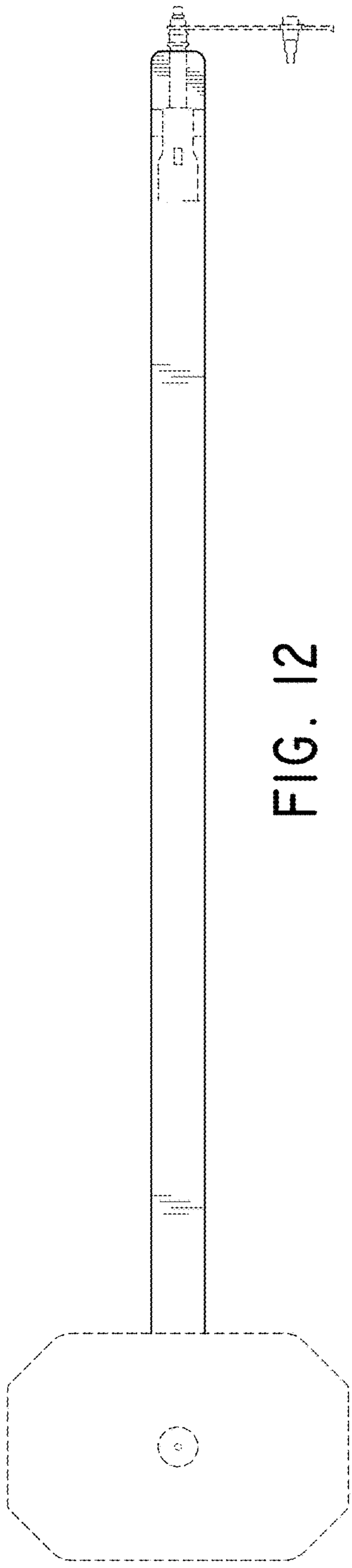


FIG. 12

FIG. 14

FIG. 15

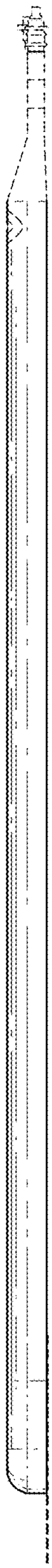


FIG. 15

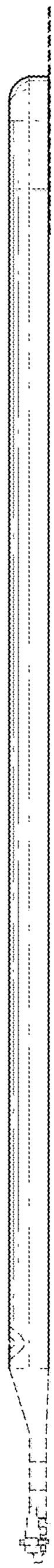


FIG. 16

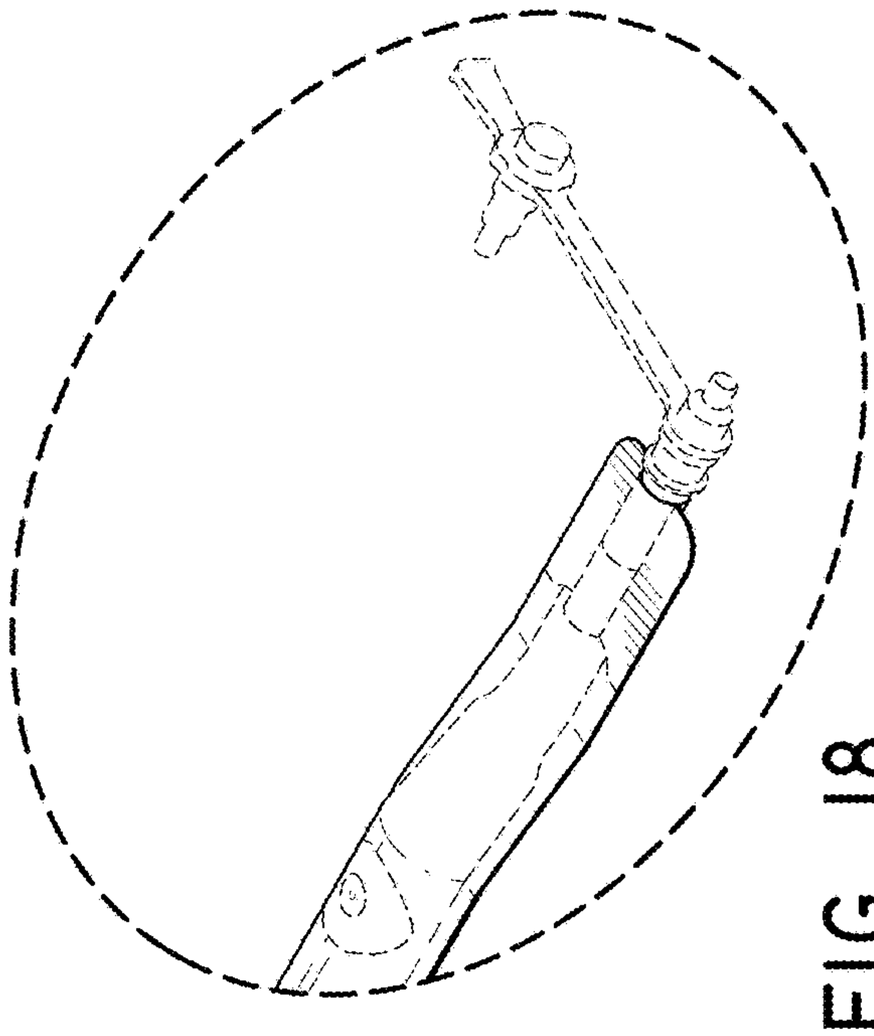


FIG. 18

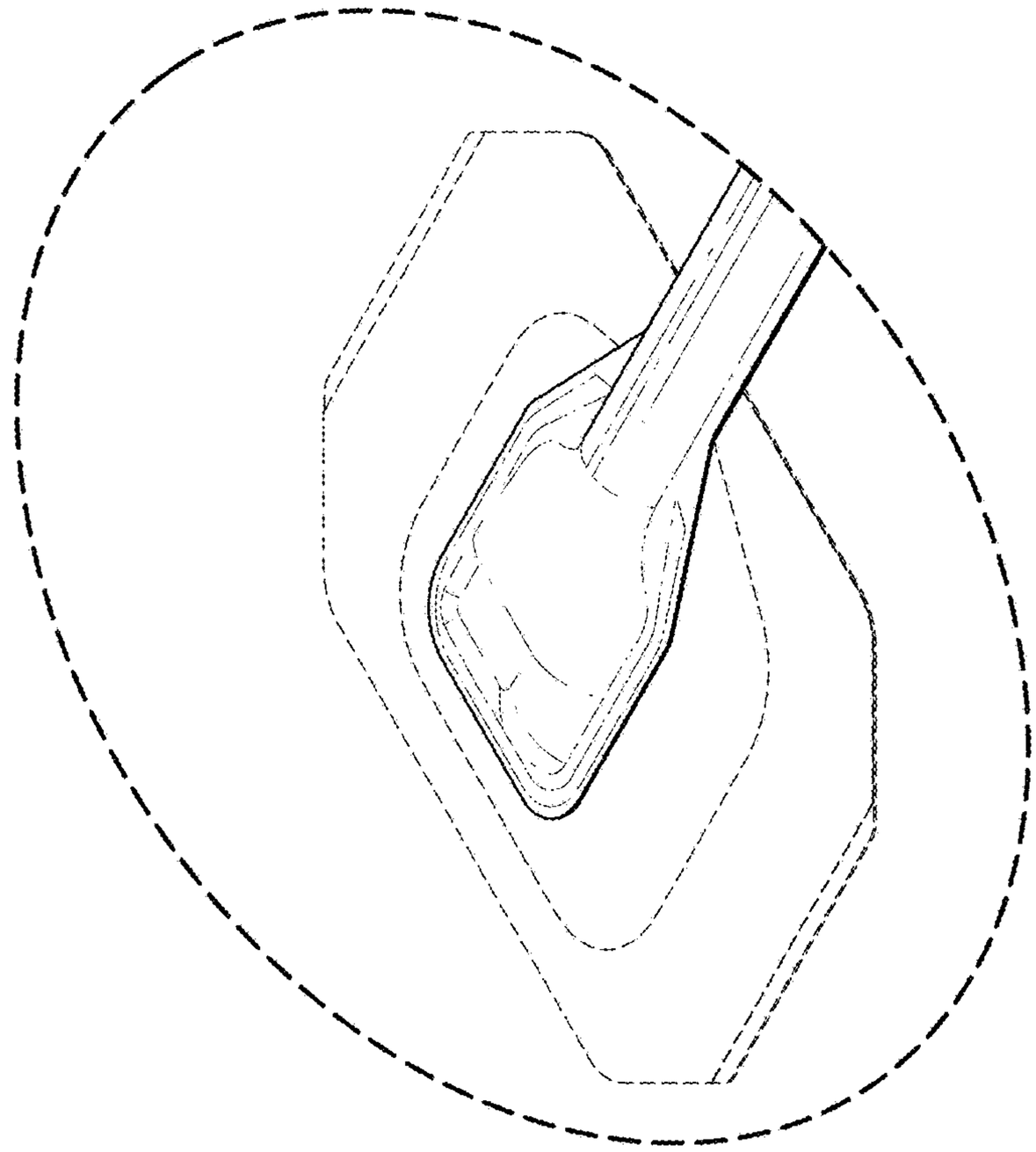


FIG. 17