

US00D900308S

(12) **United States Design Patent** (10) **Patent No.:** **US D900,308 S**
Burkholz et al. (45) **Date of Patent:** **** Oct. 27, 2020**

(54) **CATHETER ADAPTER**

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4,003,403 A 1/1977 Nehring
4,043,346 A 8/1977 Mobley
4,099,528 A 7/1978 Sorenson
4,149,539 A 4/1979 Cianci
4,172,448 A 10/1979 Brush
4,177,809 A 12/1979 Moorehead
4,193,399 A 3/1980 Robinson

(Continued)

FOREIGN PATENT DOCUMENTS

CA 2133053 A1 3/1995
CN 101879341 A 11/2010

(Continued)

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

(21) Appl. No.: **29/647,566**

(22) Filed: **May 14, 2018**

Related U.S. Application Data

(62) Division of application No. 29/580,130, filed on Oct.
5, 2016, now Pat. No. Des. 819,802.

(51) **LOC (12) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/112**; D24/129

(58) **Field of Classification Search**
USPC D24/112, 114, 127, 128, 129, 130, 133,
D24/141, 146, 147; D8/93, 97, 300, 310,
D8/311

CPC .. A61M 5/158; A61M 5/1582; A61M 5/3243;
A61M 2005/1583; A61M 2005/1586;
A61M 2005/3227; A61M 25/0606; A61M
25/0612; A61M 25/0631; A61M 25/0637
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,046,984 A 7/1962 Eby
3,547,119 A 12/1970 Hall
3,589,361 A 6/1971 Loper
3,827,434 A 8/1974 Thompson et al.
3,853,127 A 12/1974 Spademan
3,859,998 A 1/1975 Thomas

OTHER PUBLICATIONS

Silva, Elson, Email Regarding "Respecting Hydrology Science and
IP Rights—US Pat. Application 20110130728," pp. 1-6 (Jun. 2,
2011).

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(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a perspective front, top and side view of a catheter
adapter.

FIG. 2 is a perspective front, top and side view thereof.

FIG. 3 is a front view thereof.

FIG. 4 is a rear view thereof.

FIG. 5 is a right side view thereof.

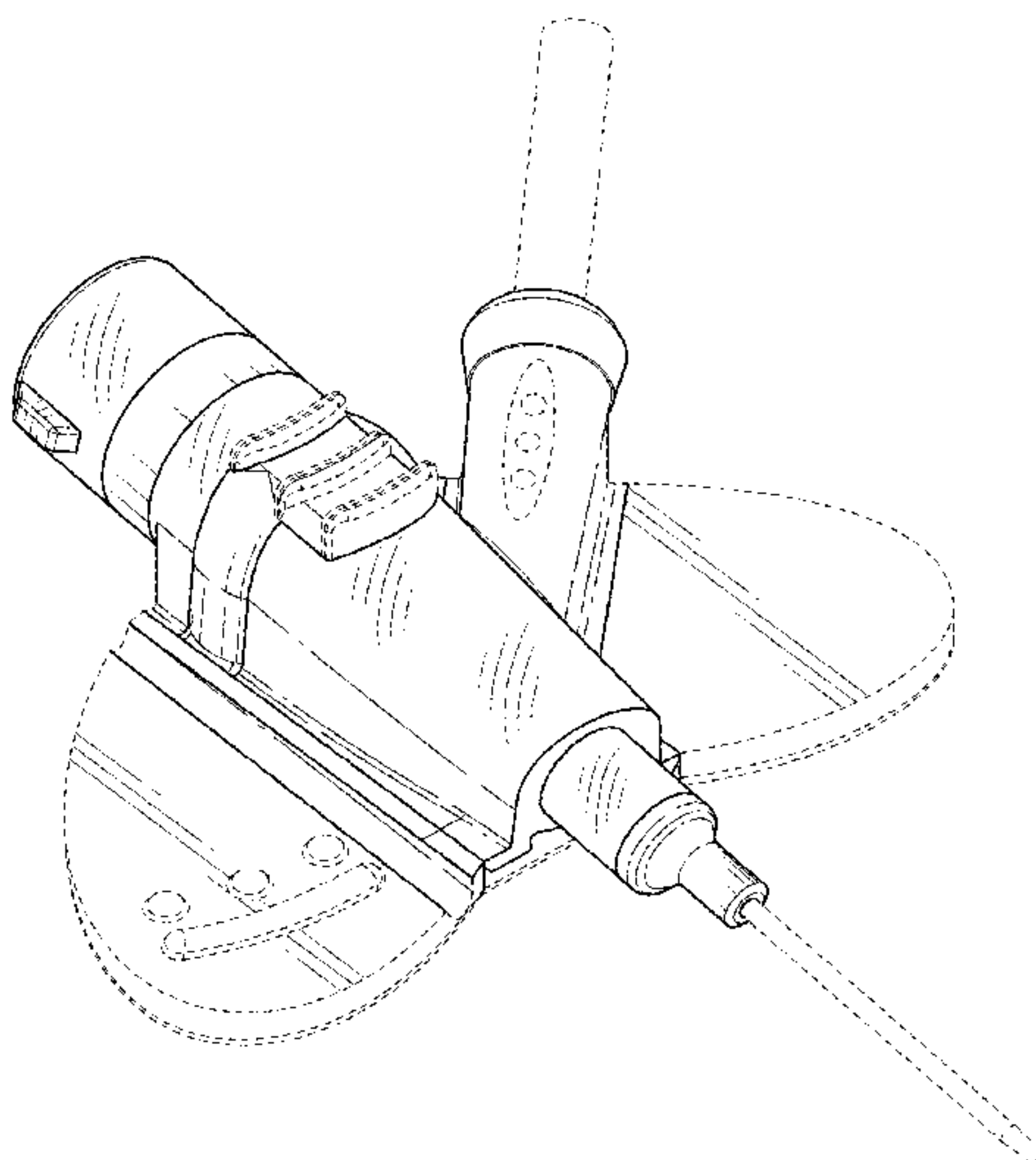
FIG. 6 is a left side view thereof.

FIG. 7 is a top view thereof; and,

FIG. 8 is a bottom view thereof.

The broken lines represent portions of the catheter adapter
that form no part of the claimed design.

1 Claim, 6 Drawing Sheets



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(56)

References Cited

U.S. PATENT DOCUMENTS

4,200,096 A	4/1980	Charvin	5,447,501 A	9/1995	Karlsson
4,269,186 A	5/1981	Loveless	5,456,675 A	10/1995	Wolbring
4,311,137 A	1/1982	Gerard	5,458,658 A	10/1995	Sircom
4,317,445 A	3/1982	Robinson	5,487,728 A	1/1996	Vaillancourt
4,326,519 A	4/1982	D'Alo	5,498,241 A	3/1996	Fabozzi
4,353,369 A	10/1982	Muettert	5,509,912 A	4/1996	Vaillancourt
4,362,156 A	12/1982	Feller, Jr.	5,520,666 A	5/1996	Choudhury
4,365,630 A	12/1982	McFarlane	5,542,932 A	8/1996	Daugherty
4,387,879 A	6/1983	Tauschinski	5,549,566 A	8/1996	Elias
4,419,094 A	12/1983	Patel	5,549,576 A	8/1996	Patterson
4,445,893 A	5/1984	Bodicky	5,549,577 A	8/1996	Siegel
4,449,693 A	5/1984	Gereg	5,562,631 A	10/1996	Bogert
4,496,348 A	1/1985	Genese	5,562,633 A	10/1996	Wozencroft
4,525,157 A	6/1985	Vaillancourt	5,573,510 A	11/1996	Isaacson
4,531,935 A	7/1985	Berryessa	5,575,769 A	11/1996	Vaillancourt
4,682,980 A	7/1987	Suzuki	5,575,777 A	11/1996	Cover
4,701,162 A	10/1987	Rosenberg	5,584,809 A	12/1996	Gaba
4,703,761 A	11/1987	Rathbone	5,599,310 A	2/1997	Bogert
4,758,225 A	7/1988	Cox et al.	5,601,536 A	2/1997	Crawford
4,765,588 A	8/1988	Atkinson	5,613,663 A	3/1997	Schmidt
4,772,264 A	9/1988	Cragg	5,651,772 A	7/1997	Arnett
4,813,939 A	3/1989	Marcus	5,657,963 A	8/1997	Hinchliffe
4,834,708 A	5/1989	Pillari	5,676,656 A	10/1997	Brimhall
4,842,591 A	6/1989	Luther	5,690,612 A	11/1997	Lopez et al.
4,874,377 A	10/1989	Newgard et al.	5,690,619 A	11/1997	Erskine
4,894,052 A	1/1990	Crawford	5,697,907 A	12/1997	Gaba
4,917,668 A	4/1990	Haindl	5,697,914 A	12/1997	Brimhall
4,917,671 A	4/1990	Chang	5,697,915 A	12/1997	Lynn
4,925,444 A	5/1990	Orkin et al.	5,699,821 A	12/1997	Paradis
4,935,010 A	6/1990	Cox	5,700,244 A	12/1997	Kriesel
4,950,257 A	8/1990	Hibbs et al.	5,700,250 A	12/1997	Erskine
4,966,586 A	10/1990	Vaillancourt	5,704,919 A	1/1998	Kraus
D315,822 S	3/1991	Ryan	5,718,688 A	2/1998	Wozencroft
5,032,116 A	7/1991	Peterson	5,730,123 A	3/1998	Lorenzen
5,041,097 A	8/1991	Johnson	5,738,144 A	4/1998	Rogers
5,053,014 A	10/1991	Van Heugten	5,749,856 A	5/1998	Zadini
5,057,087 A	10/1991	Harmon	5,749,861 A	5/1998	Guala
5,059,186 A	10/1991	Yamamoto	5,772,636 A	6/1998	Brimhall et al.
5,062,836 A	11/1991	Wendell	5,800,399 A	9/1998	Bogert et al.
5,064,416 A	11/1991	Newgard	5,806,831 A	9/1998	Paradis
5,084,023 A	1/1992	Lemieux	5,810,780 A	9/1998	Brimhall
5,085,645 A	2/1992	Purdy et al.	5,817,069 A	10/1998	Arnett
5,108,374 A	4/1992	Lemieux	5,843,046 A	12/1998	Motisi et al.
5,127,905 A	7/1992	Lemieux	5,853,393 A	12/1998	Bogert
5,135,504 A	8/1992	McLees	5,882,345 A	3/1999	Yoon
5,154,703 A	10/1992	Bonaldo	5,911,710 A	6/1999	Barry et al.
5,156,596 A	10/1992	Balbierz	5,935,109 A	8/1999	Donnan
5,176,653 A	1/1993	Metals	5,935,110 A	8/1999	Brimhall
5,176,662 A	1/1993	Bartholomew	5,947,932 A	9/1999	Desecki
5,201,717 A	4/1993	Wyatt	5,954,698 A	9/1999	Pike
5,211,634 A	5/1993	Vaillancourt	5,961,497 A	10/1999	Larkin
5,215,525 A	6/1993	Sturman	5,967,490 A	10/1999	Pike
5,215,528 A	6/1993	Purdy	6,039,302 A	3/2000	Cote, Sr. et al.
5,215,529 A	6/1993	Fields	6,056,726 A	5/2000	Isaacson
5,226,883 A	7/1993	Katsaros	6,077,244 A	6/2000	Botich
5,234,410 A	8/1993	Graham	6,117,108 A	9/2000	Woehr et al.
5,242,411 A	9/1993	Yamamoto	6,142,981 A	11/2000	Heck
5,254,097 A	10/1993	Schock	6,156,010 A	12/2000	Kuracina et al.
5,267,971 A	12/1993	Brimhall	6,171,287 B1	1/2001	Lynn et al.
5,269,764 A	12/1993	Vetter et al.	6,206,851 B1	3/2001	Prosl
5,273,546 A	12/1993	McLaughlin	6,221,047 B1	4/2001	Greene
5,290,222 A	3/1994	Feng	6,224,569 B1	5/2001	Brimhall
5,290,246 A	3/1994	Yamamoto	6,273,869 B1	8/2001	Vaillancourt
5,295,969 A	3/1994	Fischell	6,287,278 B1	9/2001	Woehr
5,306,243 A	4/1994	Bonaldo	D451,599 S	12/2001	Crawford et al.
5,312,359 A	5/1994	Wallace	D451,600 S	12/2001	Crawford et al.
5,328,482 A	7/1994	Sircom	6,379,332 B1	4/2002	Van Landuyt
5,330,435 A	7/1994	Vaillancourt	D458,678 S	6/2002	Cindrich
5,342,315 A	8/1994	Rowe	D458,994 S	6/2002	Cindrich
5,350,363 A	9/1994	Goode	6,440,119 B1	8/2002	Nakada et al.
5,352,205 A	10/1994	Dales	6,461,362 B1	10/2002	Halseth
5,354,281 A	10/1994	Chen	6,485,473 B1	11/2002	Lynn
5,356,381 A	10/1994	Ensminger	6,497,994 B1	12/2002	Kafrawy
5,368,029 A	11/1994	Holcombe	6,506,181 B2	1/2003	Meng
5,405,323 A	4/1995	Rogers	D469,870 S	2/2003	Niermann et al.
			6,565,542 B2	5/2003	Kumar
			6,575,960 B2	6/2003	Becker
			6,595,954 B1	7/2003	Luther
			6,595,981 B2	7/2003	Huet

(56)

References Cited**U.S. PATENT DOCUMENTS**

6,616,630	B1	9/2003	Woehr
6,652,486	B2	11/2003	Bialecki
6,663,592	B2	12/2003	Rhad
6,689,102	B2	2/2004	Greene
6,695,814	B2	2/2004	Greene
6,699,221	B2	3/2004	Vaillancourt
6,709,419	B2	3/2004	Woehr
6,719,726	B2	4/2004	Meng
6,740,063	B2	5/2004	Lynn
D491,266	S	6/2004	Cindrich et al.
D492,031	S	6/2004	Cindrich
6,749,588	B1	6/2004	Howell
D492,774	S	7/2004	Cindrich et al.
6,837,884	B2	1/2005	Woloszko
6,883,778	B1	4/2005	Newton
7,008,404	B2	3/2006	Nakajima
7,347,839	B2	3/2008	Hiejima
7,396,346	B2	7/2008	Nakajima
7,470,254	B2	12/2008	Basta
D592,302	S	5/2009	Stokes et al.
7,670,317	B2	3/2010	Cindrich
7,694,403	B2	4/2010	Moulton
7,736,339	B2	6/2010	Woehr
7,905,856	B2	3/2011	McGuckin
7,914,494	B2	3/2011	Hiejima
8,066,670	B2	11/2011	Cluff
8,066,675	B2	11/2011	Cindrich
8,070,725	B2	12/2011	Christensen
8,357,119	B2	1/2013	Stout
8,361,020	B2	1/2013	Stout
8,388,583	B2	3/2013	Stout
8,574,203	B2	11/2013	Stout
8,597,252	B2	12/2013	Burkholz
8,641,675	B2	2/2014	Stout
8,679,063	B2	3/2014	Stout
D713,522	S	9/2014	Woehr et al.
9,745,151	B2	8/2017	Martel
D819,802	S *	6/2018	Burkholz D24/112
D835,262	S *	12/2018	Burkholz D24/112
D837,368	S *	1/2019	Burkholz A61B 5/062
			D24/129
2001/0053895	A1	12/2001	Vaillancourt
2002/0072712	A1	6/2002	Nool
2002/0082546	A1	6/2002	Crank et al.
2002/0177814	A1	11/2002	Meng
2003/0083620	A1	5/2003	Luther
2004/0078003	A1	4/2004	Smith
2004/0092889	A1	5/2004	Ferguson
2004/0102735	A1	5/2004	Moulton
2004/0181192	A1	9/2004	Cuppy
2004/0193112	A1	9/2004	Glazier
2004/0204681	A1	10/2004	Thoresen
2004/0225260	A1	11/2004	Villa
2004/0243060	A1	12/2004	Rossi
2004/0243061	A1	12/2004	McGurk
2005/0273019	A1	12/2005	Conway
2005/0277879	A1	12/2005	Daga
2006/0163515	A1	7/2006	Ruschke
2006/0264833	A1	11/2006	Moulton
2007/0043334	A1	2/2007	Guala
2007/0083157	A1	4/2007	Belley
2007/0083162	A1	4/2007	O'Reagan
2007/0093778	A1	4/2007	Cindrich et al.
2007/0191777	A1	8/2007	King
2007/0225648	A1	9/2007	Winsor
2007/0233007	A1	10/2007	Adams
2008/0039796	A1	2/2008	Nakajima
2008/0108944	A1	5/2008	Woehr
2008/0132832	A1	6/2008	McKinnon
2008/0167577	A1	7/2008	Weilbacher et al.
2008/0255473	A1	10/2008	Dalebout
2008/0287906	A1	11/2008	Burkholz
2009/0054845	A1	2/2009	Puhasmagi
2009/0099431	A1	4/2009	Dalebout
2009/0287189	A1	11/2009	Suwito

2010/0204648	A1	8/2010	Stout
2010/0204675	A1	8/2010	Woehr
2010/0222746	A1	9/2010	Burkholz
2010/0280455	A1	11/2010	Ogawa et al.
2011/0046570	A1	2/2011	Stout
2011/0054403	A1	3/2011	Tanabe
2011/0130728	A1	6/2011	McKinnon
2012/0016265	A1	1/2012	Peterson
2012/0016307	A1	1/2012	Burkholz
2012/0053523	A1	3/2012	Harding
2013/0090608	A1	4/2013	Stout
2013/0218082	A1	8/2013	Hyer et al.
2013/0237925	A1	9/2013	Trainer et al.
2014/0046258	A1	2/2014	Stout
2014/0107584	A1	4/2014	Rosenberg et al.
2014/0364809	A1	12/2014	Isaacson et al.
2015/0224296	A1	8/2015	Winsor
2017/0120008	A1	5/2017	Burkholz
2017/0120014	A1	5/2017	Harding et al.
2017/0216535	A1	8/2017	Mao
2017/0347913	A1 *	12/2017	Isaacson A61B 5/062

FOREIGN PATENT DOCUMENTS

CN	102440822	A	5/2012
CN	102716541	B	10/2012
CN	202909200		5/2013
CN	203852671		10/2014
EP	0268480	B1	10/1990
EP	0812601	A2	12/1997
EP	0732120	B1	5/2003
EP	0993839	B1	9/2004
EP	1306097	B1	12/2004
EP	1679043	B1	12/2007
EP	1884257	A1	2/2008
EP	1944049	A1	7/2008
EP	2022421	B1	2/2009
EP	2044970	A1	4/2009
EP	2327434	A1	6/2011
GB	2508466	B	10/2014
JP	S56102253		8/1981
JP	S5832774		2/1983
JP	H06-086821		3/1994
JP	H09-509075		9/1997
JP	2000279527		10/2000
JP	2004528127		9/2004
JP	2011045544	A	3/2011
JP	2012521796		9/2012
JP	2012200425		10/2012
JP	3188771		1/2014
JP	2014108112		6/2014
WO	WO-8807388	A1	10/1988
WO	WO-9745151	A1	12/1997
WO	WO-9842393	A1	10/1998
WO	WO-9934849	A1	7/1999
WO	WO-0112254	A1	2/2001
WO	WO-02096495	A2	12/2002
WO	WO-2004032995	A2	4/2004
WO	2004/082727		9/2004
WO	2004/087247		10/2004
WO	WO-2004098685	A1	11/2004
WO	WO-2006037638	A1	4/2006
WO	2007/052655		5/2007
WO	WO-2008022258	A2	2/2008
WO	WO-2008045761	A2	4/2008
WO	WO-2008052790	A2	5/2008
WO	WO-2008058132	A2	5/2008
WO	WO-2008058133	A2	5/2008
WO	WO-2009114833	A1	9/2009
WO	WO-2010093791	A1	8/2010
WO	WO-2010111283	A1	9/2010
WO	WO-2010111285	A1	9/2010
WO	2011/055287		5/2011
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WO	WO-2017062579	A1	4/2017

* cited by examiner

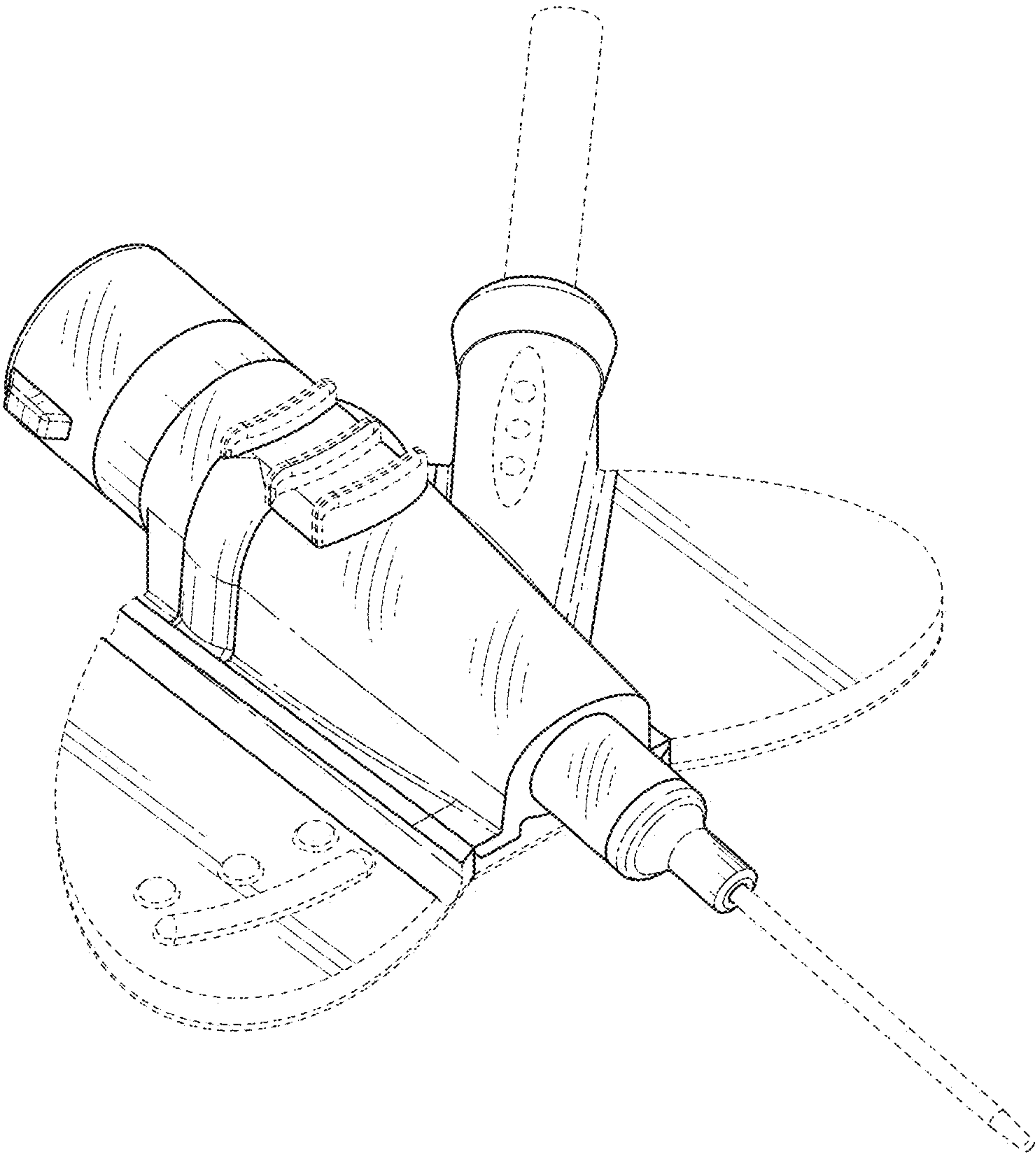


FIG. 1

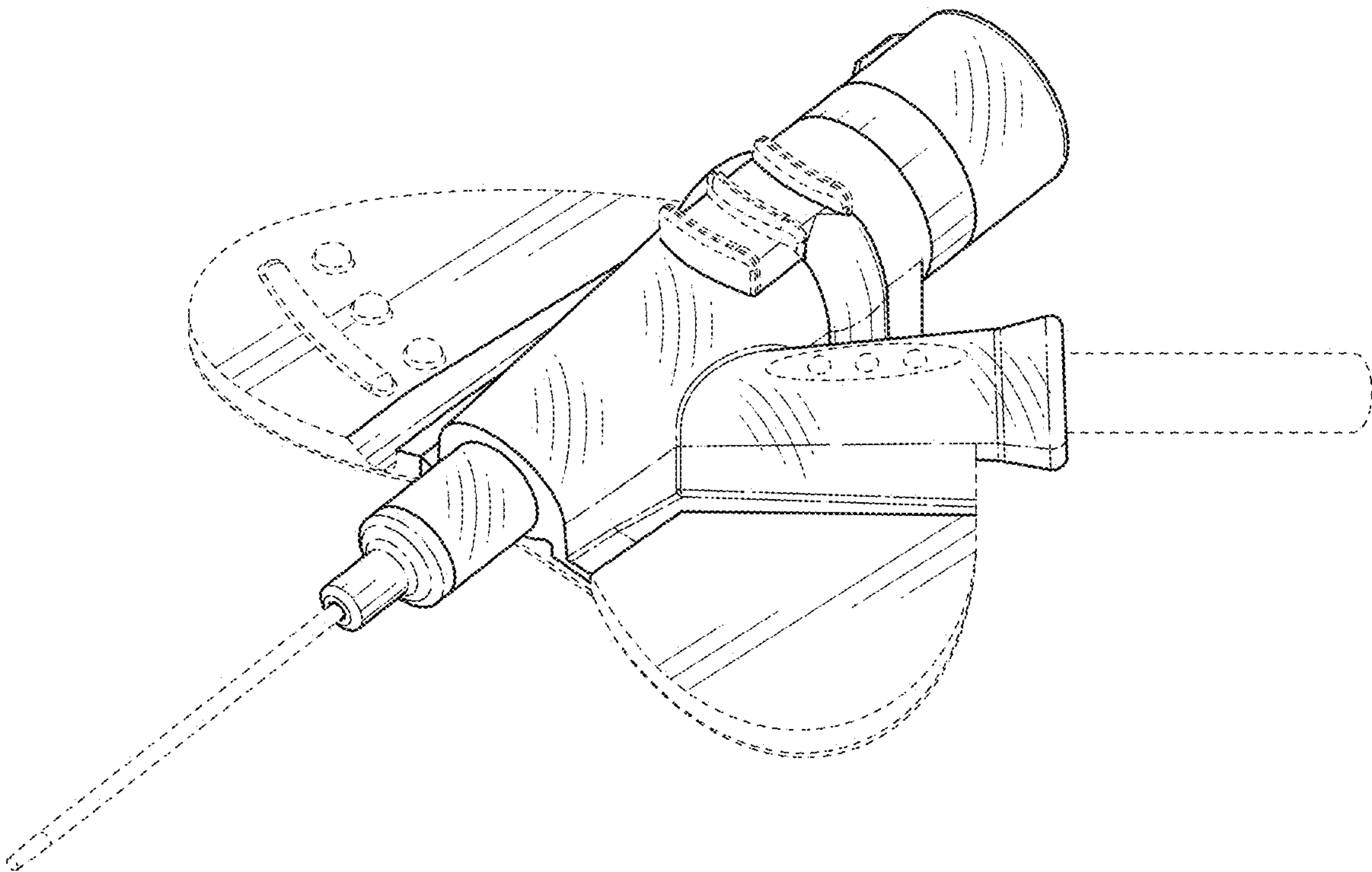


FIG. 2

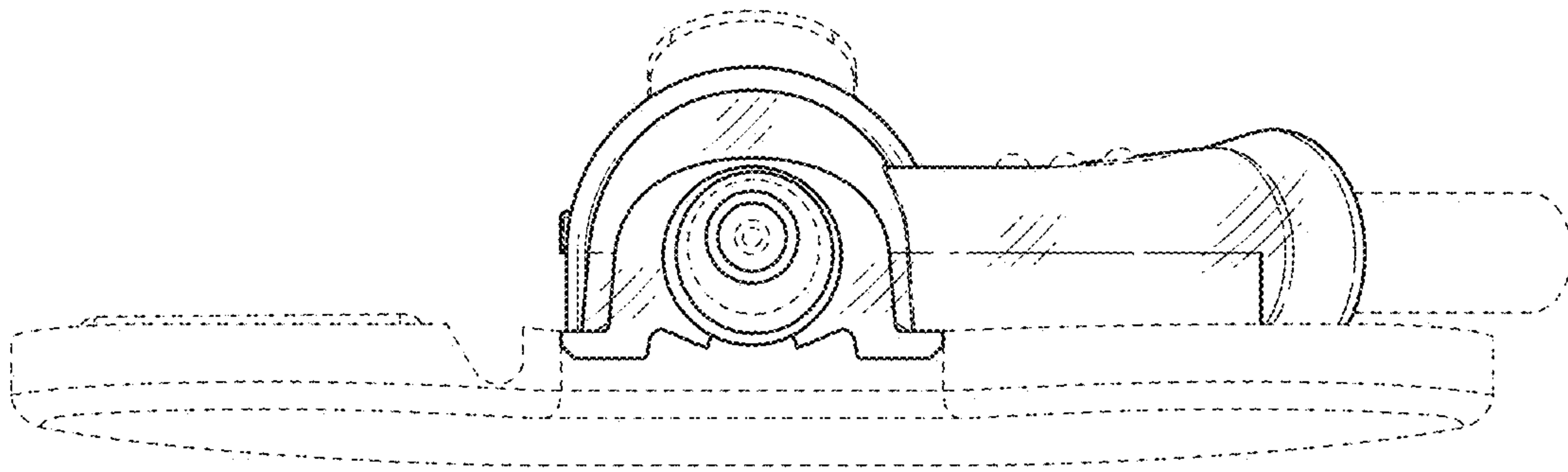


FIG. 3

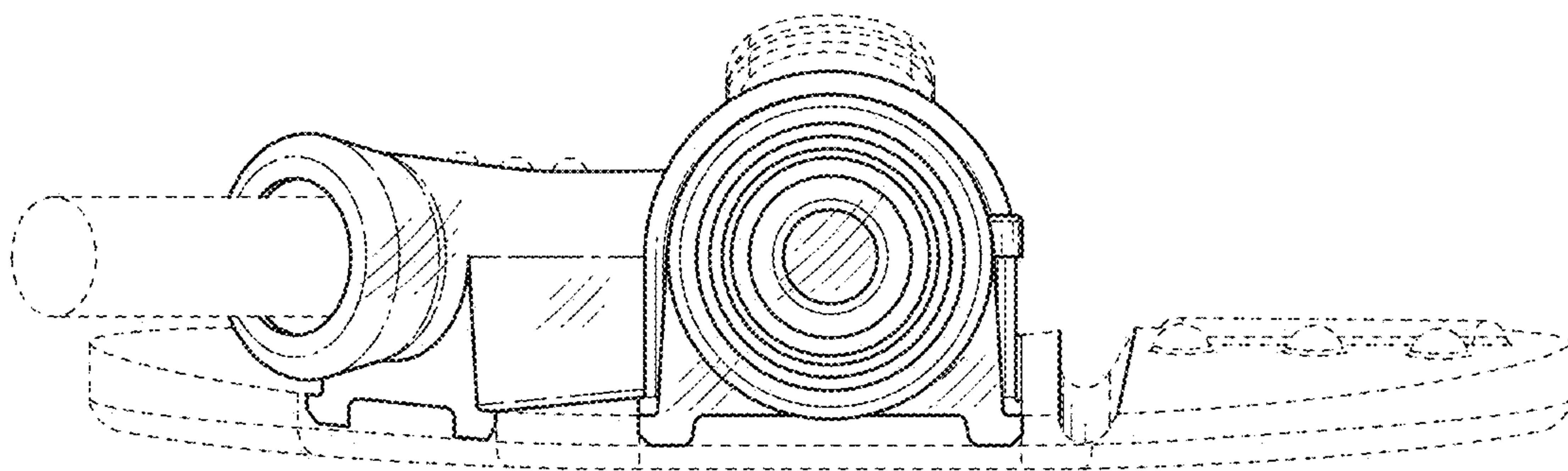


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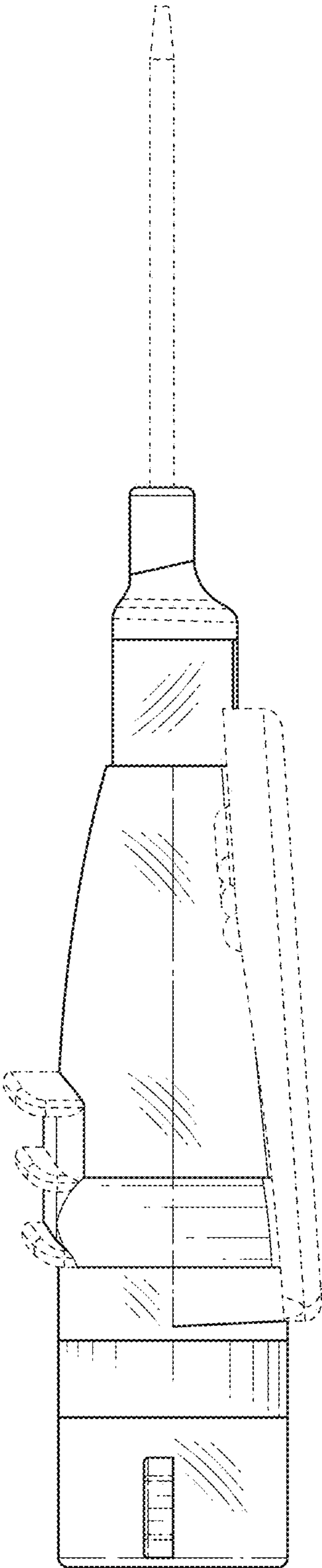


FIG. 5

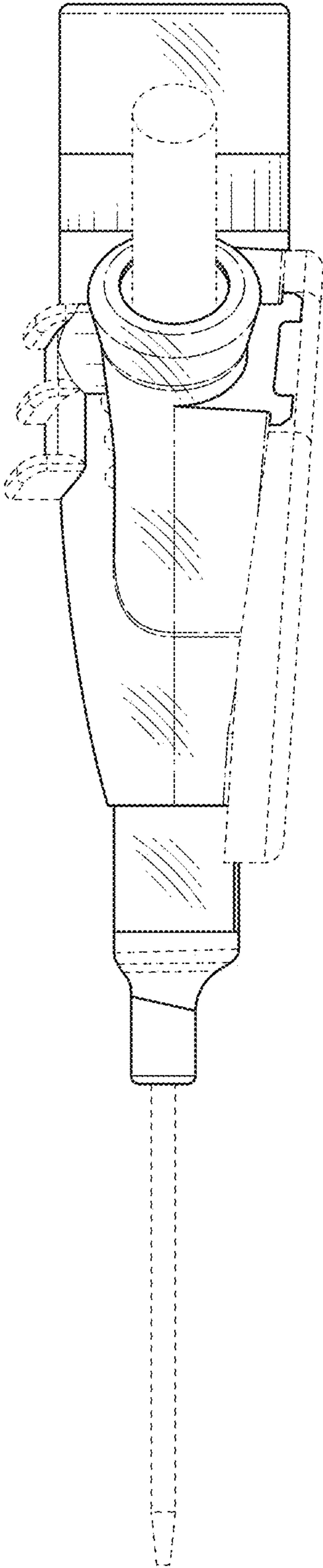


FIG. 6

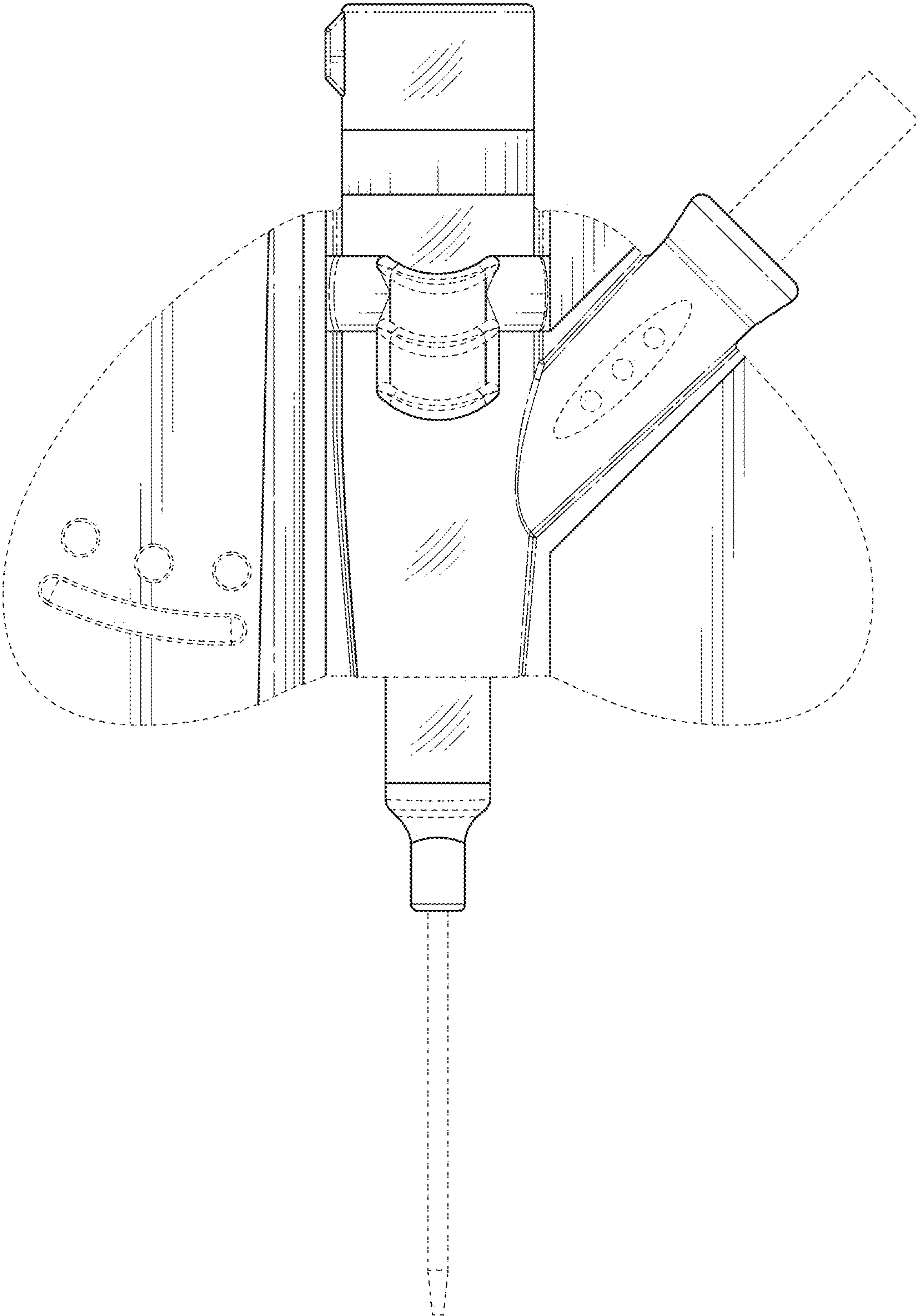


FIG. 7

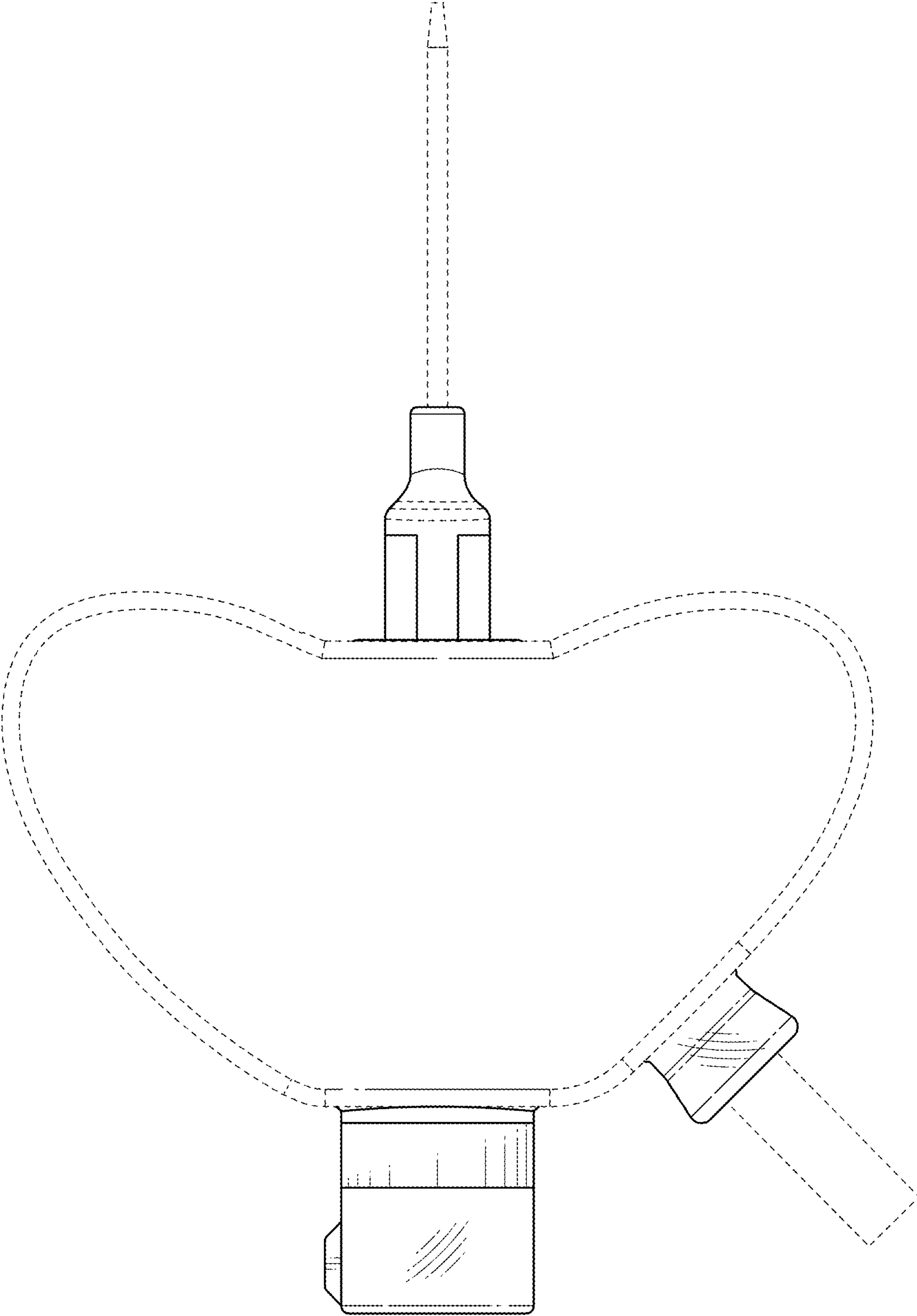


FIG. 8