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(54) **MEDICATION MIXING APPARATUS**

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(58) **Field of Classification Search**
USPC D24/127–131, 112–114, 133, 186; 606/181, 185; 604/264, 523–528, 272, 604/187, 158, 164.01–164.11, 181, 184, 604/227; 600/101, 139, 143; 128/200.24, 207.14, 207.15
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,021,681 A 3/1912 Jennings
3,788,524 A 1/1974 Davis et al.
3,822,700 A 7/1974 Pennington
3,872,992 A 3/1975 Larson
3,938,520 A 2/1976 Scislowicz et al.
4,121,585 A 10/1978 Becker, Jr.
4,161,178 A 7/1979 Genese
4,203,067 A 5/1980 Fitzky et al.
4,203,443 A 5/1980 Genese
(Continued)

FOREIGN PATENT DOCUMENTS

DE 4408498 A1 5/1995
DE 102007046951 B3 2/2009
(Continued)

OTHER PUBLICATIONS

Summit International Medical Technologies, Inc., Vial Direct to Bag Spike, 2020.
(Continued)

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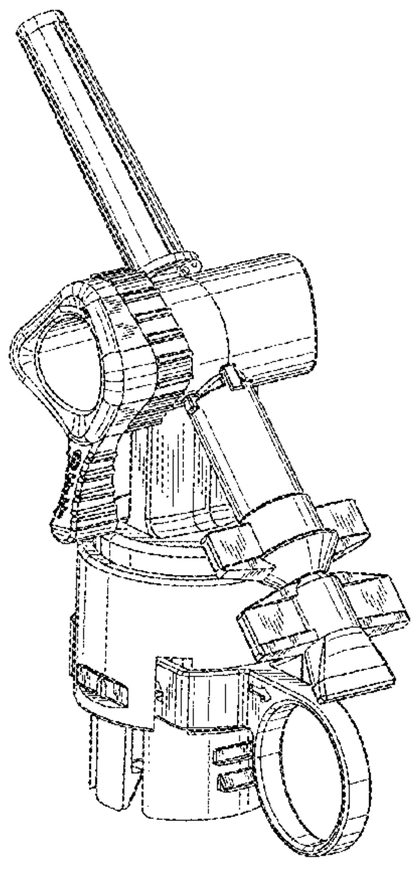
(57) **CLAIM**

The ornamental design for a medication mixing apparatus, as shown and described.

DESCRIPTION

FIG. **1** is a front perspective view of a medication mixing apparatus in accordance with our new design;
FIG. **2** is a left side elevational view of FIG. **1**;
FIG. **3** is a right side elevational view of FIG. **1**;
FIG. **4** is a front elevational view of FIG. **1**;
FIG. **5** is a rear elevational view of FIG. **1**;
FIG. **6** is a top plan view of FIG. **1**; and,
FIG. **7** is a bottom plan view of FIG. **1**.
The broken lines show portions of the design that form no part of the claimed design.

1 Claim, 6 Drawing Sheets



(56) **References Cited**

U.S. PATENT DOCUMENTS

4,262,671	A	*	4/1981	Kersten	A61M 5/162 604/251
4,303,067	A		12/1981	Connolly et al.	
4,312,349	A		1/1982	Cohen	
4,328,802	A		5/1982	Curley et al.	
4,335,717	A		6/1982	Bujan et al.	
4,364,387	A	*	12/1982	Larkin	A61M 5/162 222/83
4,376,634	A		3/1983	Prior et al.	
D268,871	S		5/1983	Benham et al.	
4,392,850	A		7/1983	Elias et al.	
4,410,321	A		10/1983	Pearson et al.	
4,411,662	A		10/1983	Pearson	
4,465,471	A		8/1984	Harris et al.	
4,505,709	A		3/1985	Froning et al.	
4,507,113	A		3/1985	Dunlap	
4,573,993	A		3/1986	Hoag et al.	
4,581,014	A		4/1986	Millerd et al.	
4,735,608	A		4/1988	Sardam	
4,752,292	A		6/1988	Lopez et al.	
4,804,366	A		2/1989	Zdeb et al.	
4,832,690	A		5/1989	Kuu	
4,834,744	A	*	5/1989	Ritson	A61M 5/162 604/411
4,857,062	A		8/1989	Russell	
4,898,209	A		2/1990	Zbed	
4,931,040	A		6/1990	Haber et al.	
4,932,944	A		6/1990	Jagger et al.	
D314,622	S		2/1991	Andersson et al.	
5,006,114	A		4/1991	Rogers et al.	
5,041,105	A		8/1991	D'Alo et al.	
5,125,915	A		6/1992	Berry et al.	
D328,788	S		8/1992	Sagae et al.	
D331,281	S	*	11/1992	Levine	D24/110
5,181,508	A	*	1/1993	Poole, Jr.	A61M 16/0463 128/203.12
5,232,029	A		8/1993	Knox et al.	
5,242,432	A		9/1993	DeFrank	
D341,420	S		11/1993	Conn	
5,300,034	A		4/1994	Behnke et al.	
5,301,685	A		4/1994	Guirguis	
5,304,163	A		4/1994	Bonnici et al.	
5,308,483	A		5/1994	Sklar et al.	
D349,648	S		8/1994	Tirrell et al.	
5,334,179	A		8/1994	Poli et al.	
5,364,386	A		11/1994	Fukuoka et al.	
5,397,303	A		3/1995	Sancoff et al.	
5,429,614	A		7/1995	Fowles et al.	
5,433,330	A		7/1995	Yatsko et al.	
5,445,630	A		8/1995	Richmond	
5,445,631	A		8/1995	Uchida	
D362,718	S		9/1995	Deily et al.	
5,451,374	A		9/1995	Molina	
5,454,805	A		10/1995	Brony	
5,464,111	A		11/1995	Vacek et al.	
5,470,327	A		11/1995	Helgren et al.	
5,471,994	A		12/1995	Guirguis	
5,472,022	A		12/1995	Michel et al.	
D369,406	S		4/1996	Niedospial et al.	
5,527,306	A		6/1996	Haining	
5,547,471	A		8/1996	Thompson et al.	
5,549,577	A		8/1996	Siegel et al.	
5,554,128	A		9/1996	Hedges	
5,603,706	A		2/1997	Wyatt et al.	
5,645,538	A		7/1997	Richmond	
5,647,845	A		7/1997	Haber et al.	
5,651,776	A		7/1997	Appling et al.	
5,676,346	A		10/1997	Leinsing	
5,685,845	A		11/1997	Grimard	
5,699,821	A		12/1997	Paradis	
5,702,019	A		12/1997	Grimard	
5,766,211	A		6/1998	Wood et al.	
5,776,116	A		7/1998	Lopez et al.	
5,782,872	A		7/1998	Muller	
5,806,831	A		9/1998	Paradis	
5,817,082	A		10/1998	Niedospial, Jr. et al.	
5,839,715	A		11/1998	Leinsing	
5,853,406	A		12/1998	Masuda et al.	
5,871,110	A		2/1999	Grimard et al.	
5,887,633	A		3/1999	Yale et al.	
5,890,610	A		4/1999	Jansen et al.	
5,891,129	A		4/1999	Daubert et al.	
5,897,526	A		4/1999	Vaillancourt	
5,899,468	A		5/1999	Apps et al.	
5,902,280	A		5/1999	Powles et al.	
5,902,298	A		5/1999	Niedospial, Jr. et al.	
D410,740	S		6/1999	Molina	
5,911,710	A		6/1999	Barry et al.	
5,921,419	A		7/1999	Niedospial, Jr. et al.	
5,924,584	A		7/1999	Hellstrom et al.	
5,925,029	A		7/1999	Jansen et al.	
5,935,112	A		8/1999	Stevens et al.	
5,941,848	A		8/1999	Nishimoto et al.	
D414,562	S		9/1999	Tajima	
5,954,104	A		9/1999	Daubert et al.	
5,971,181	A		10/1999	Niedospial, Jr. et al.	
D416,086	S		11/1999	Parris et al.	
D417,733	S		12/1999	Howell et al.	
6,019,750	A		2/2000	Fowles et al.	
6,022,339	A		2/2000	Fowles et al.	
6,036,171	A		3/2000	Weinheimer et al.	
6,039,093	A		3/2000	Mrotzek et al.	
6,039,302	A		3/2000	Cote, Sr. et al.	
D422,357	S		4/2000	Niedospial, Jr. et al.	
6,053,899	A	*	4/2000	Slanda	A61B 17/0483 604/500
D427,309	S		6/2000	Molina	
6,070,623	A		6/2000	Aneas	
6,071,270	A		6/2000	Fowles et al.	
6,086,762	A		7/2000	Guala	
6,089,541	A		7/2000	Weinheimer et al.	
6,090,091	A		7/2000	Fowles et al.	
6,099,511	A		8/2000	Devos et al.	
6,113,068	A		9/2000	Ryan	
6,117,114	A		9/2000	Paradis	
D431,864	S		10/2000	Jansen	
6,142,446	A		11/2000	Leinsing	
6,146,362	A		11/2000	Turnbull et al.	
6,168,037	B1		1/2001	Grimard	
6,171,287	B1		1/2001	Lynn et al.	
6,171,293	B1		1/2001	Rowley et al.	
6,173,852	B1		1/2001	Browne	
6,179,822	B1		1/2001	Niedospial, Jr.	
6,179,823	B1		1/2001	Niedospial, Jr.	
6,206,861	B1		3/2001	Mayer	
6,221,041	B1	*	4/2001	Russo	A61J 1/2089 604/82
6,221,065	B1		4/2001	Davis	
D445,895	S		7/2001	Svendsen	
6,253,804	B1		7/2001	Safabash	
6,258,078	B1		7/2001	Thilly	
6,290,688	B1		9/2001	Lopez et al.	
6,296,621	B1		10/2001	Masuda et al.	
6,299,131	B1		10/2001	Ryan	
D453,221	S	*	1/2002	Haytman	D24/129
6,364,866	B1		4/2002	Furr et al.	
6,378,576	B2		4/2002	Thibault et al.	
6,378,714	B1		4/2002	Jansen et al.	
D457,954	S		5/2002	Wallace et al.	
6,382,442	B1		5/2002	Thibault et al.	
6,440,107	B1		8/2002	Trombley, III et al.	
6,453,949	B1		9/2002	Chau	
6,453,956	B2		9/2002	Safabash	
D468,015	S	*	12/2002	Horppu	D24/129
6,499,617	B1		12/2002	Niedospial, Jr. et al.	
6,520,932	B2		2/2003	Taylor	
6,524,295	B2		2/2003	Daubert et al.	
6,537,263	B1		3/2003	Aneas	
6,571,837	B2		6/2003	Jansen et al.	
6,572,591	B2		6/2003	Mayer	
6,575,955	B2		6/2003	Azzolini	
6,582,415	B1		6/2003	Fowles et al.	
6,591,876	B2		7/2003	Safabash	
6,601,721	B2		8/2003	Jansen et al.	

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,626,309	B1	9/2003	Jansen et al.	
D482,121	S *	11/2003	Harding	D24/129
D482,447	S	11/2003	Harding et al.	
6,651,956	B2	11/2003	Miller	
6,652,509	B1	11/2003	Helgren et al.	
D483,487	S *	12/2003	Harding	D24/129
6,682,509	B2	1/2004	Lopez	
6,692,478	B1	2/2004	Paradis	
6,692,829	B2	2/2004	Stubler et al.	
6,695,829	B2	2/2004	Hellstrom et al.	
6,706,022	B1	3/2004	Leinsing et al.	
6,706,031	B2	3/2004	Manera	
6,746,438	B1	6/2004	Arnissolle	
6,802,490	B2	10/2004	Leinsing et al.	
D506,256	S	6/2005	Miyoshi et al.	
6,945,417	B2	9/2005	Jansen et al.	
6,948,522	B2	9/2005	Newbrough et al.	
6,957,745	B2	10/2005	Thibault et al.	
6,994,315	B2	2/2006	Ryan et al.	
6,997,916	B2	2/2006	Simas, Jr. et al.	
7,070,589	B2	7/2006	Lolachi et al.	
7,086,431	B2	8/2006	D'Antonio et al.	
7,100,890	B2	9/2006	Cote, Sr. et al.	
7,140,401	B2	11/2006	Wilcox et al.	
7,192,423	B2	3/2007	Wong	
7,195,623	B2	3/2007	Burroughs et al.	
7,241,285	B1	7/2007	Dikeman	
7,306,199	B2	12/2007	Leinsing et al.	
D560,815	S	1/2008	Tajima	
7,326,188	B1	2/2008	Russell et al.	
D573,250	S *	7/2008	MacRae	D24/108
D580,558	S	11/2008	Shigesada et al.	
7,470,257	B2	12/2008	Norton et al.	
7,472,932	B2	1/2009	Weber et al.	
7,497,848	B2	3/2009	Leinsing et al.	
7,530,546	B2	5/2009	Ryan et al.	
7,540,863	B2	6/2009	Haindl	
7,544,191	B2	6/2009	Peluso et al.	
D604,837	S	11/2009	Crawford et al.	
7,615,041	B2	11/2009	Sullivan et al.	
7,628,779	B2	12/2009	Aneas	
D608,900	S	1/2010	Giraud et al.	
D609,804	S	2/2010	Uchida et al.	
7,654,995	B2	2/2010	Warren et al.	
7,670,326	B2	3/2010	Shemesh	
D616,090	S	5/2010	Kawamura	
7,713,247	B2	5/2010	Lopez	
7,717,886	B2	5/2010	Lopez	
7,762,524	B2	7/2010	Cawthon et al.	
7,766,304	B2	8/2010	Phillips	
D627,216	S	11/2010	Fulginiti	
D630,732	S	1/2011	Lev et al.	
7,862,537	B2	1/2011	Zinger et al.	
7,867,215	B2	1/2011	Akerlund et al.	
D634,007	S *	3/2011	Zinger	D24/129
7,900,659	B2	3/2011	Whitley et al.	
D637,713	S	5/2011	Nord et al.	
D641,080	S *	7/2011	Zinger	D24/129
7,985,216	B2	7/2011	Daily et al.	
D644,104	S	8/2011	Maeda et al.	
7,993,328	B2	8/2011	Whitley	
8,016,809	B2	9/2011	Zinger et al.	
8,021,325	B2	9/2011	Zinger et al.	
8,025,653	B2	9/2011	Capitaine et al.	
8,029,472	B2	10/2011	Leinsing et al.	
8,038,123	B2	10/2011	Ruschke et al.	
8,066,688	B2	11/2011	Zinger et al.	
8,070,739	B2	12/2011	Zinger et al.	
8,096,525	B2	1/2012	Ryan	
8,105,314	B2	1/2012	Fangrow, Jr.	
D655,017	S	2/2012	Mosler et al.	
8,122,923	B2	2/2012	Kraus et al.	
D655,071	S	3/2012	Davila	
8,157,784	B2	4/2012	Rogers	
8,167,863	B2	5/2012	Yow	
8,172,824	B2	5/2012	Pfeifer et al.	
8,177,768	B2	5/2012	Leinsing	
8,182,452	B2	5/2012	Mansour et al.	
8,196,614	B2	6/2012	Kriheli	
8,197,459	B2	6/2012	Jansen et al.	
8,211,069	B2	7/2012	Fangrow, Jr.	
8,225,959	B2	7/2012	Lambrecht	
8,241,268	B2	8/2012	Whitley	
8,262,628	B2	9/2012	Fangrow, Jr.	
8,267,127	B2	9/2012	Kriheli	
D669,980	S	10/2012	Lev et al.	
8,287,513	B2	10/2012	Ellstrom et al.	
D671,654	S *	11/2012	Akamatsu	D16/131
D674,088	S	1/2013	Lev et al.	
8,418,690	B2 *	4/2013	Power	A61M 11/005 128/203.15
8,454,573	B2	6/2013	Wyatt et al.	
8,469,939	B2	6/2013	Fangrow, Jr.	
8,480,646	B2	7/2013	Nord et al.	
8,506,548	B2	8/2013	Okiyama	
8,523,837	B2	9/2013	Wiggins et al.	
D691,264	S	10/2013	Dallemagne et al.	
8,545,476	B2	10/2013	Ariagno et al.	
8,551,067	B2	10/2013	Zinger et al.	
8,556,879	B2	10/2013	Okiyama	
8,628,508	B2	1/2014	Weitzel et al.	
D703,812	S *	4/2014	Cederschiold	D24/129
8,684,992	B2	4/2014	Sullivan et al.	
D720,451	S	12/2014	Denenburg et al.	
D720,850	S	1/2015	Hsia et al.	
D833,599	S *	11/2018	Nilsson	D24/110.4
D849,936	S *	5/2019	Allard	D24/129
10,413,662	B2 *	9/2019	Yeh	A61M 5/162
D881,389	S	4/2020	Wang et al.	
D881,390	S	4/2020	Wang et al.	
2001/0000347	A1	4/2001	Hellstrom et al.	
2001/0025671	A1	10/2001	Safabash	
2002/0066715	A1	6/2002	Niedospial	
2002/0128628	A1	9/2002	Fathallah	
2002/0193777	A1	12/2002	Aneas	
2003/0028156	A1	2/2003	Juliar	
2003/0068354	A1	4/2003	Reif et al.	
2003/0073971	A1	4/2003	Saker	
2003/0187420	A1	10/2003	Akerlund et al.	
2003/0191445	A1	10/2003	Wallen et al.	
2003/0199847	A1	10/2003	Akerlund et al.	
2004/0024354	A1	2/2004	Reynolds	
2004/0199139	A1	10/2004	Fowles et al.	
2004/0204699	A1	10/2004	Hanly et al.	
2005/0015070	A1	1/2005	Delnevo et al.	
2005/0055008	A1	3/2005	Paradis et al.	
2005/0082828	A1	4/2005	Wicks et al.	
2005/0124964	A1	6/2005	Niedospial et al.	
2005/0137566	A1	6/2005	Fowles et al.	
2005/0159724	A1	7/2005	Enerson	
2005/0182383	A1	8/2005	Wallen	
2005/0209554	A1	9/2005	Landau	
2005/0261637	A1	11/2005	Miller	
2006/0058741	A1 *	3/2006	Gallagher	A61M 5/1411 604/257
2006/0089594	A1	4/2006	Landau	
2006/0095015	A1	5/2006	Hobbs et al.	
2006/0106360	A1	5/2006	Wong	
2007/0024995	A1	2/2007	Hayashi	
2007/0079894	A1	4/2007	Kraus et al.	
2007/0112324	A1	5/2007	Hamedi-Sangsari	
2007/0244461	A1	10/2007	Fangrow	
2007/0244462	A1	10/2007	Fangrow	
2007/0244463	A1	10/2007	Warren et al.	
2007/0249995	A1	10/2007	Van Manen	
2007/0299404	A1	12/2007	Katoh et al.	
2008/0009822	A1	1/2008	Enerson	
2008/0249498	A1	10/2008	Fangrow	
2008/0287905	A1	11/2008	Hiejima et al.	
2008/0294100	A1	11/2008	de Costa et al.	
2008/0306439	A1	12/2008	Nelson et al.	
2008/0312634	A1	12/2008	Helmerson et al.	
2009/0143758	A1	6/2009	Okiyama	
2009/0177178	A1	7/2009	Pedersen	

(56) **References Cited**

U.S. PATENT DOCUMENTS

2009/0216212	A1	8/2009	Fangrow, Jr.	
2009/0267011	A1	10/2009	Hatton et al.	
2009/0326506	A1	12/2009	Hasegawa et al.	
2010/0022985	A1	1/2010	Sullivan et al.	
2010/0036319	A1	2/2010	Drake et al.	
2010/0137827	A1	6/2010	Warren et al.	
2010/0160889	A1	6/2010	Smith et al.	
2010/0168664	A1	7/2010	Zinger et al.	
2010/0168712	A1	7/2010	Tuckwell et al.	
2010/0179506	A1	7/2010	Shemesh et al.	
2010/0204670	A1	8/2010	Kraushaar et al.	
2010/0241088	A1	9/2010	Ranalletta et al.	
2010/0274184	A1	10/2010	Chun	
2010/0286661	A1	11/2010	Raday et al.	
2011/0004184	A1	1/2011	Proksch et al.	
2011/0054440	A1	3/2011	Lewis	
2011/0224640	A1	9/2011	Kuhn et al.	
2011/0230856	A1	9/2011	Kyle et al.	
2011/0264069	A1	10/2011	Bochenko	
2011/0275988	A1*	11/2011	Davis	A61M 5/1411 604/82
2011/0276007	A1	11/2011	Denenburg	
2011/0319827	A1	12/2011	Leinsing et al.	
2012/0022469	A1	1/2012	Alpert	
2012/0053555	A1	3/2012	Ariagno et al.	
2012/0059346	A1	3/2012	Sheppard et al.	
2012/0078214	A1	3/2012	Finke et al.	
2012/0123382	A1	5/2012	Kubo	
2012/0184938	A1	7/2012	Lev et al.	
2012/0215182	A1	8/2012	Mansour et al.	
2012/0220977	A1	8/2012	Yow	
2012/0220978	A1	8/2012	Lev et al.	
2012/0265163	A1	10/2012	Cheng et al.	
2012/0296307	A1	11/2012	Holt et al.	
2012/0310203	A1	12/2012	Khaled et al.	
2013/0046269	A1	2/2013	Lev et al.	
2013/0053814	A1	2/2013	Mueller-Beckhaus et al.	
2013/0096493	A1	4/2013	Kubo et al.	
2013/0199669	A1	8/2013	Moy et al.	
2013/0289530	A1	10/2013	Wyatt et al.	
2014/0276215	A1*	9/2014	Nelson	A61M 39/255 600/573
2014/0352845	A1	12/2014	Lev et al.	
2015/0082746	A1	3/2015	Ivosevic et al.	
2015/0088078	A1	3/2015	Lev et al.	
2015/0297880	A1*	10/2015	Ogawa	A61M 39/045 604/247
2016/0081308	A1*	3/2016	Cary	A61M 5/1582 222/80
2018/0161243	A1*	6/2018	Ariagno	A61J 1/20

FOREIGN PATENT DOCUMENTS

DE	202009011019	U1	12/2010
EP	0737467	A1	10/1996
EP	761562	A1	3/1997
EP	765652	A1	4/1997
EP	765853	A1	4/1997
EP	829248	A2	3/1998
EP	0856331	A2	8/1998
EP	897708	A2	2/1999
EP	960616	A2	12/1999
EP	1323403	A1	7/2003
EP	1396250	A1	3/2004
EP	1919432	A1	5/2008
EP	1930038	A2	6/2008
EP	2351548	A1	8/2011
EP	2351549	A1	8/2011
FR	2856660	A1	12/2004
FR	2931363	A1	11/2009
IL	171662		10/2005
JP	06-050656	U	7/1994
JP	H08-000710	A	1/1996
JP	09-104460	A	4/1997
JP	09-104461	A	4/1997
JP	10-118158		5/1998
JP	H10-504736	A	5/1998
JP	11-319031	A	11/1999
JP	2000-508934	A	7/2000
JP	2000-237278	A	9/2000
JP	2001-505083	A	4/2001
JP	2002-035140	A	2/2002
JP	2002-355318	A	12/2002
JP	2003-033441	A	2/2003
JP	2003-102807	A	4/2003
JP	2004-097253	A	4/2004
JP	2004-522541	A	7/2004
WO	9507720	A1	3/1995
WO	9513785	A1	5/1995
WO	9736636	A1	10/1997
WO	0236191	A2	5/2002
WO	03079956	A1	10/2003
WO	2005002492	A1	1/2005
WO	2006099441	A2	9/2006
WO	2007017868	A1	2/2007
WO	2007052252	A1	5/2007
WO	2008081424	A2	7/2008
WO	2009026443	A2	2/2009
WO	2009029010	A1	3/2009
WO	2009038860	A2	3/2009
WO	2009087572	A1	7/2009
WO	2009140511	A1	11/2009
WO	2009146088	A1	12/2009
WO	2011025719	A1	3/2011
WO	2011058545	A1	5/2011
WO	2011058548	A1	5/2011
WO	2011077434	A1	6/2011
WO	2011104711	A1	9/2011
WO	2011150037	A1	12/2011
WO	2012143921	A1	10/2012
WO	2015009746	A2	1/2015
WO	2015019343	A1	2/2015
WO	2018104930	A1	6/2018
WO	2018178971	A1	10/2018

OTHER PUBLICATIONS

Merchant "An engineered control device for needle free reconstitution and transfer of compounded sterile intravenous drug solutions for immediate use to assist in complying with United States Pharmacopeia Chapter <797> standard", Adv Care, 2 pages, 2018.

West Vial2Bag DC system, Oct. 2, 2014, https://web.archive.org/web/20140020651 33/http://www.westpharma.com/en/products/Pages/Reconstitutionsystems.aspx.

Youtube.com, Vial2Bag DC, Aug. 21, 2014, https://www.youtube.com/watch?v=FEOkglxNBrs.

Article with picture of West Pharmaceutical Services Vial2Bag Needleless System, [on-line]; IPIPS Newsletter, Oct. 26, 2007], [retrieved from Internet Feb. 16, 2010]; URL: ,http://www.isips.org/reports/ISIPS_Newsletter_October_26_2007.html.> (7 pages, see pp. 5-6).

* cited by examiner

FIG. 1

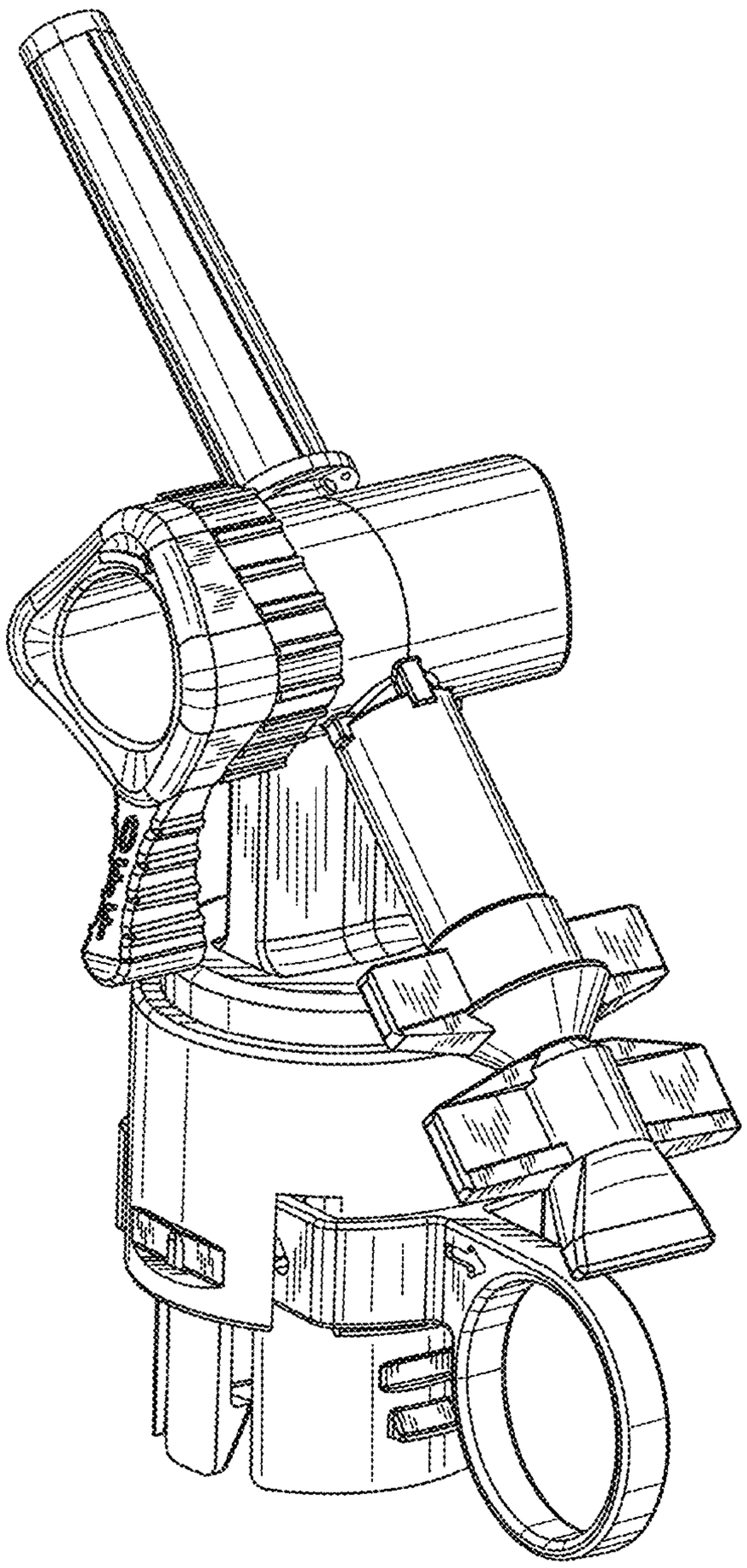


FIG. 2

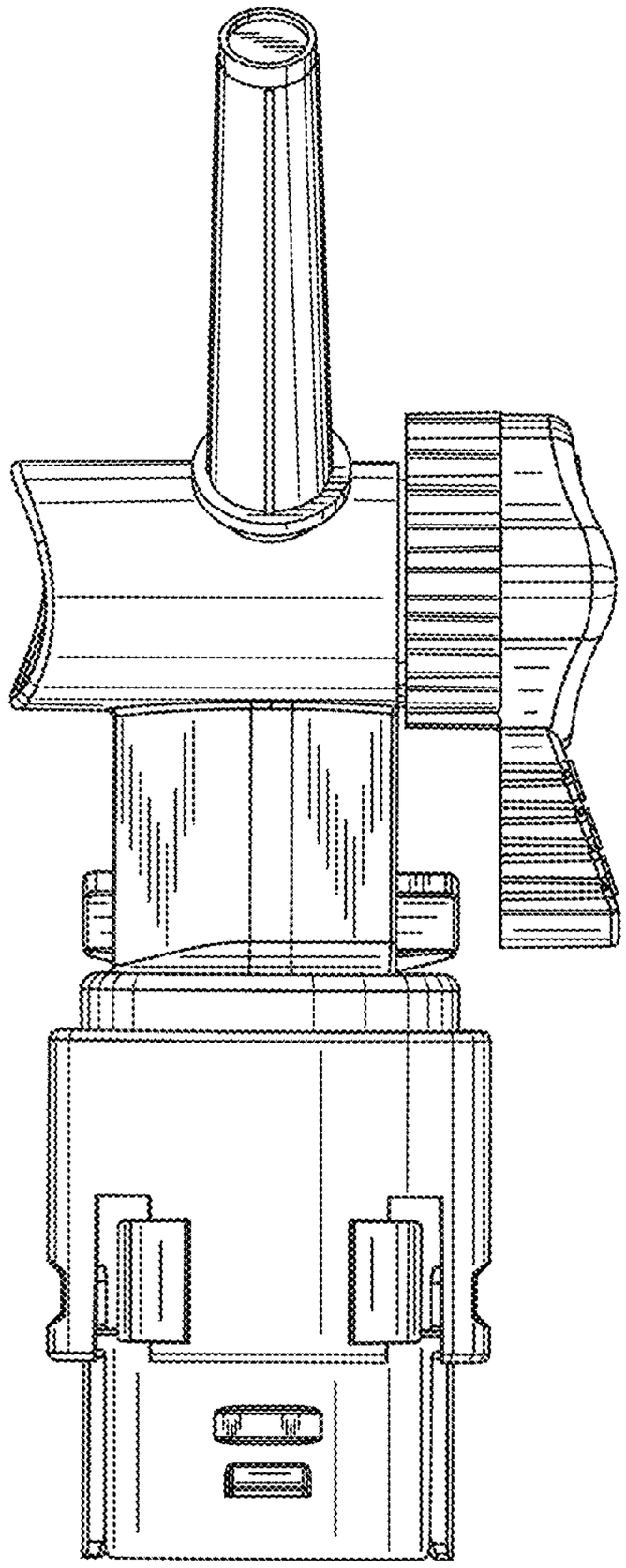


FIG. 3

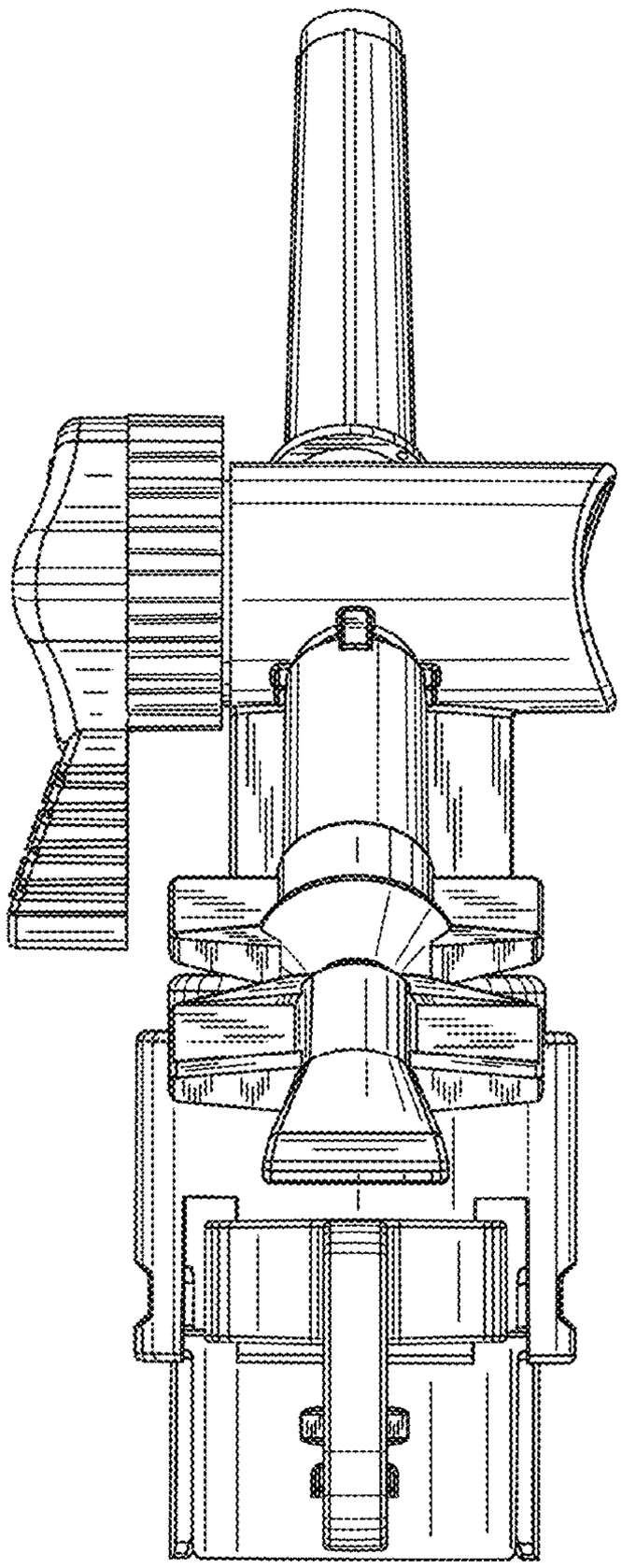


FIG. 4

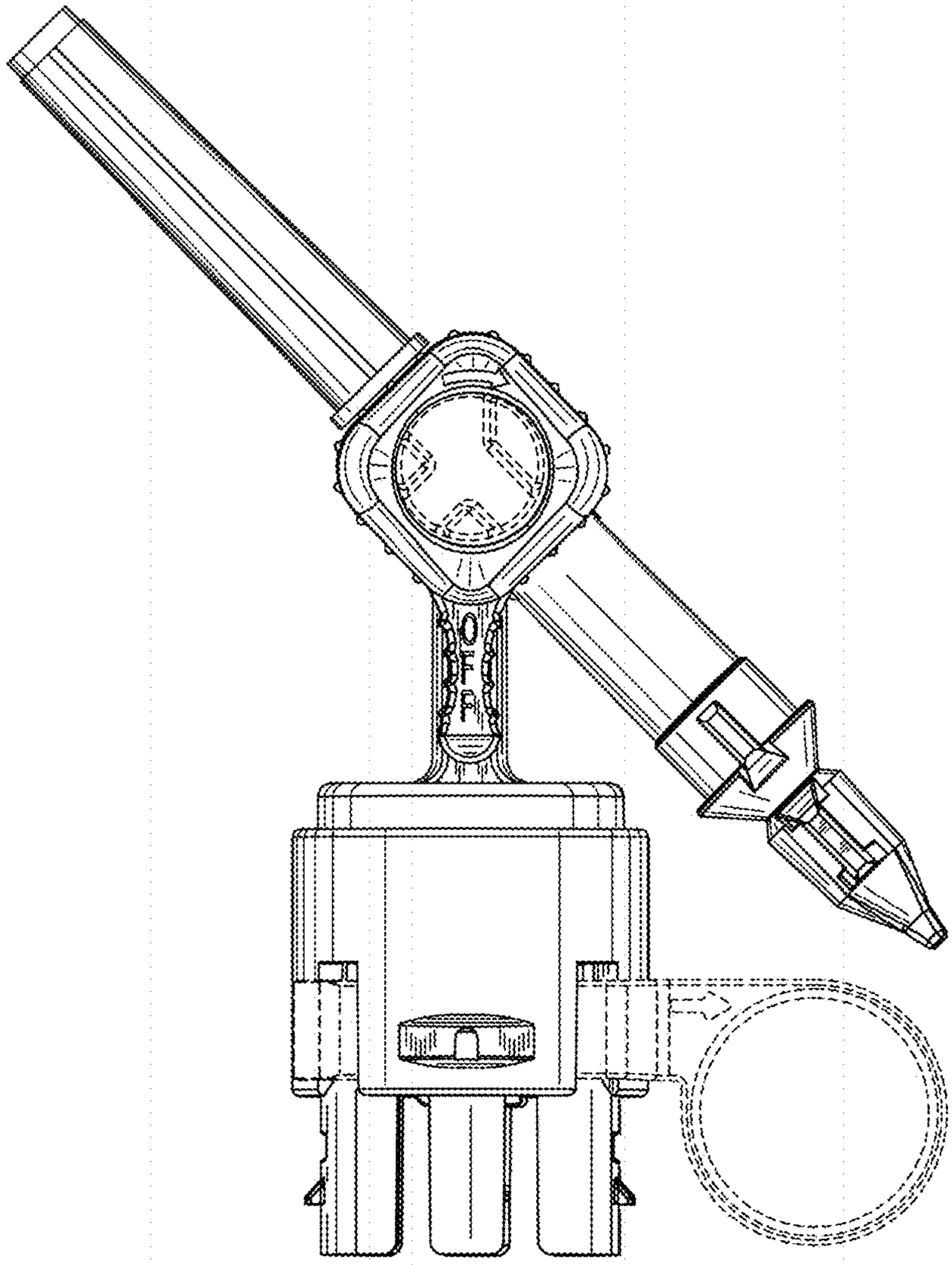


FIG. 5

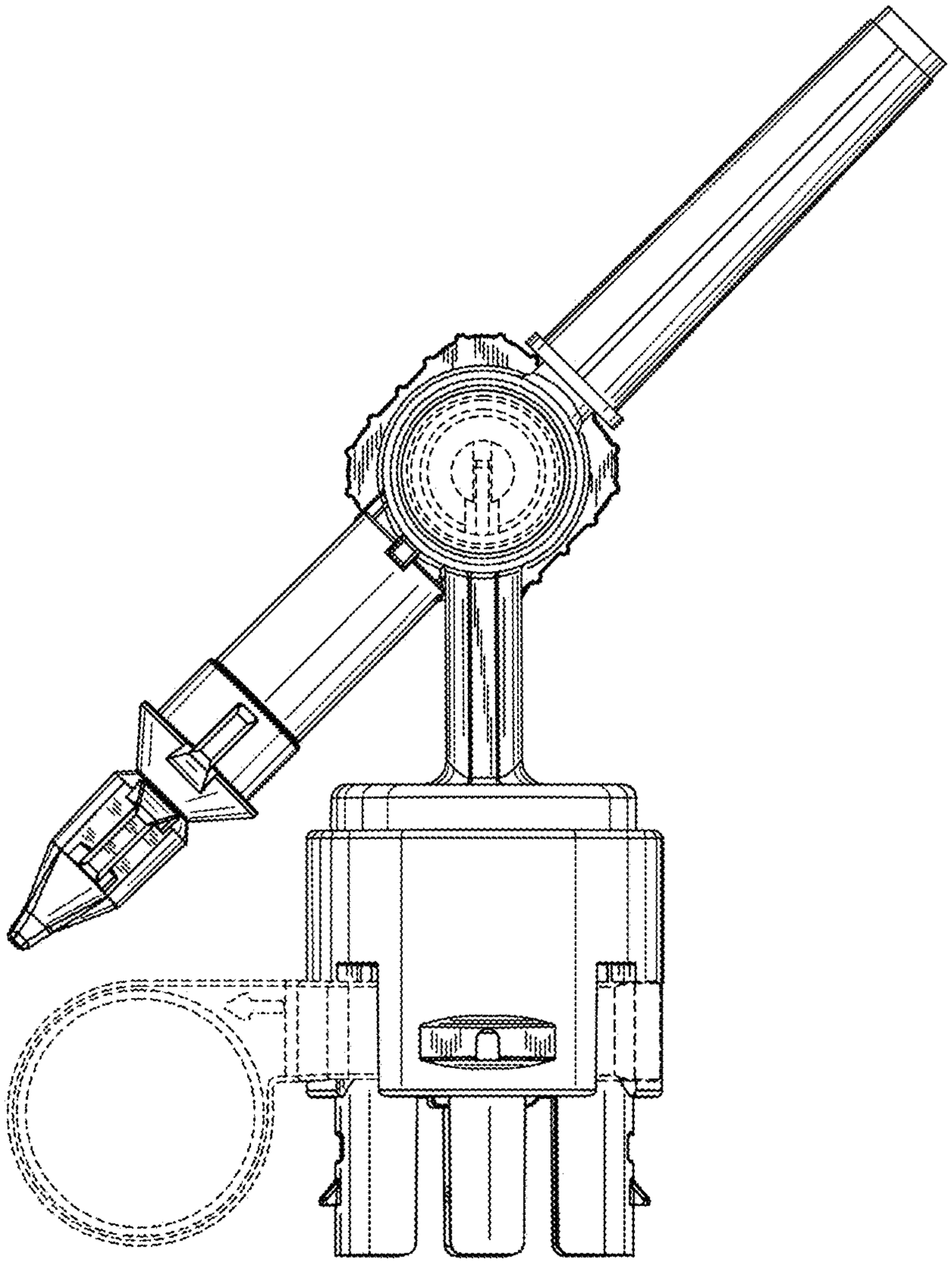


FIG. 6

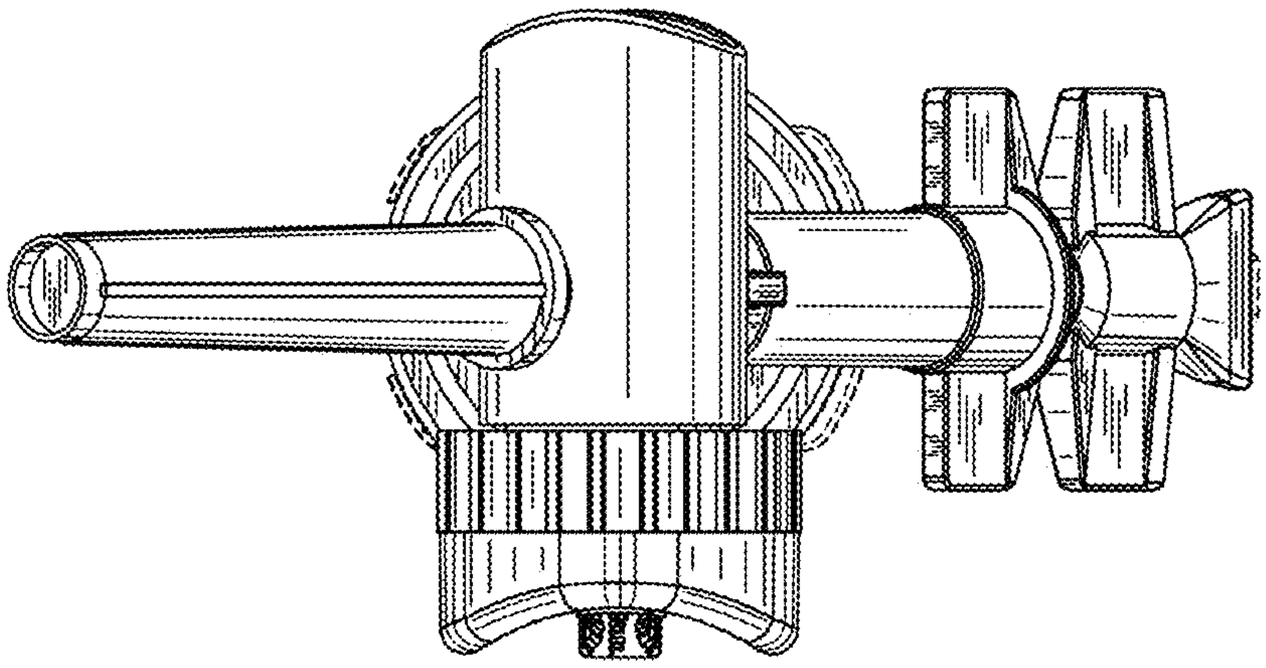


FIG. 7