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[54] COMBINATION TROCAR, CANNULA, AND VALVE

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[73] Assignee: GeniCon, LC, Orlando, Fla.

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[52] U.S. Cl. D24/146

[58] Field of Search D25/146, 147; 604/256, 254, 165, 192; 606/167, 170.79, 184, 185

[56] References Cited

U.S. PATENT DOCUMENTS

D. 354,562	1/1995	Medema	.....	D24/129
D. 364,924	12/1995	Medema	.....	D24/146
3,861,416	1/1975	Wichterle	.....	137/525.3
3,994,287	11/1976	Turp et al.	.....	128/6
4,143,853	3/1979	Abramson	.....	251/149
4,177,814	12/1979	Knepshield et al.	.....	128/348
4,222,126	9/1980	Boretos et al.	.....	3/15
4,233,982	11/1980	Bauer et al.	.....	128/347
4,364,127	12/1982	Pierce et al.	.....	3/1.5
4,375,864	3/1983	Savage	.....	222/81
4,424,833	1/1984	Spector et al.	.....	137/849
4,475,548	10/1984	Muto	.....	128/207
4,492,253	1/1985	Raftis	.....	137/849
4,535,773	8/1985	Yoon	.....	604/51
4,535,819	8/1985	Atkinson	.....	137/846
4,566,493	1/1986	Edwards et al.	.....	137/846
4,601,710	7/1986	Moll	.....	604/165
4,654,030	3/1987	Moll et al.	.....	604/165
4,673,393	6/1987	Suzuki et al.	.....	604/167
4,705,709	11/1987	Vailancourt	.....	428/36
4,765,588	8/1988	Atkinson	.....	251/149
4,798,584	1/1989	Hancock et al.	.....	604/93
4,798,593	1/1989	Iwatschenko	.....	604/164

4,809,679	3/1989	Shimonaka et al.	.....	128/4
4,876,126	10/1989	Takemura	.....	428/35.7
4,902,280	2/1990	Lander	.....	604/165
4,906,237	3/1990	Johansson et al.	.....	604/265
4,931,042	6/1990	Holmes et al.	.....	604/164
4,943,280	7/1990	Lander	.....	604/169
4,977,901	12/1990	Ofstead	.....	128/772
4,990,357	2/1991	Karakelle et al.	.....	427/2
5,009,391	4/1991	Steigerwald	.....	251/149
5,009,643	4/1991	Reich et al.	.....	604/165
5,010,925	4/1991	Atkinson et al.	.....	137/847
5,030,206	7/1991	Lander	.....	604/164
5,041,095	8/1991	Littrell	.....	604/167
5,053,016	10/1991	Lander	.....	604/169
5,066,288	11/1991	Deniega et al.	.....	604/274
5,104,382	4/1992	Brinkerhoff et al.	.....	604/165
5,104,383	4/1992	Shichman	.....	604/167
5,112,321	5/1992	Hiltebrandt	.....	604/264
5,122,122	6/1992	Allgood	.....	604/174
5,127,909	7/1992	Shichman	.....	604/165
5,129,885	7/1992	Green et al.	.....	604/164
5,141,498	8/1992	Christian	.....	604/167
5,147,316	9/1992	Castillenti	.....	604/167
5,152,754	10/1992	Plyley et al.	.....	604/164
5,209,737	5/1993	Richart et al.	604/167
5,217,441	6/1993	Shichman	604/283

(List continued on next page.)

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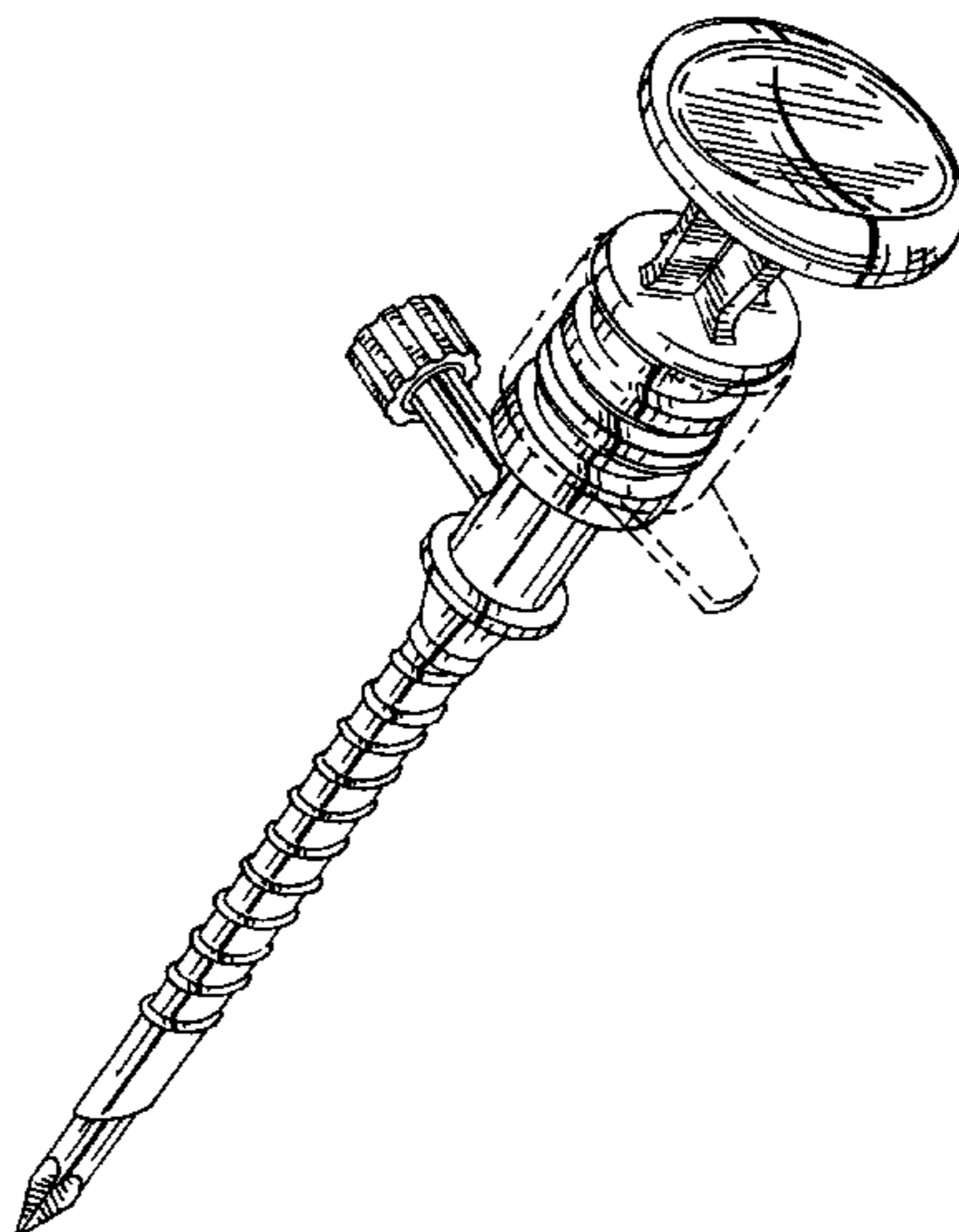
[57] CLAIM

The ornamental design for a combination trocar, cannula, and valve, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a first embodiment of the combination trocar, cannula, and valve showing the design of our invention;
FIG. 2 is a front elevational view of FIG. 1;
FIG. 3 is a top plan view of FIG. 1; and,
FIG. 4 is a bottom plan view of FIG. 1.
The broken lines are for illustrative purposes only and do not form part of the claimed design.

1 Claim, 1 Drawing Sheet



U.S. PATENT DOCUMENTS

5,226,890	7/1993	Ianniruberto et al.	604/164	5,545,150	8/1996	Danks et al.	604/256
5,226,891	7/1993	Bushatz et al.	604/165	5,569,206	10/1996	Gorman, Jr. et al.	604/167
5,248,298	9/1993	Bedi et al.	604/51	5,575,800	11/1996	Gordon	604/144
5,267,965	12/1993	Deniega	604/164	5,578,044	11/1996	Gordon et al.	606/144
5,273,545	12/1993	Hunt et al.	604/167	5,584,850	12/1996	Hart et al.	606/185
5,292,310	3/1994	Yoon	604/158	5,603,702	2/1997	Smith et al.	606/256
5,300,036	4/1994	Mueller et al.	604/167	5,618,290	4/1997	Toy et al.	606/139
5,308,336	5/1994	Hart et al.	604/167	5,618,297	4/1997	Hart et al.	606/185
5,309,896	5/1994	Moll et al.	128/20	5,637,108	6/1997	Vidal et al.	606/1
5,334,166	8/1994	Palestrant	604/265	5,657,963	8/1997	Hinchliffe et al.	251/149.1
5,338,305	8/1994	Plyley et al.	604/164	5,674,237	10/1997	Ott	606/185
5,344,420	9/1994	Hilal et al.	606/28	5,676,683	10/1997	Yoon	606/185
5,360,417	11/1994	Gravener et al.	604/278	5,688,286	11/1997	Yoon	606/185
5,364,408	11/1994	Gordon	604/144	5,690,663	11/1997	Stephens	606/185
5,385,552	1/1995	Haber et al.	604/167	5,709,664	1/1998	Vandenbroek et al.	604/167
5,385,553	1/1995	Hart et al.	604/167	5,709,671	1/1998	Stephens et al.	604/264
5,389,081	2/1995	Castro	604/167	5,713,910	2/1998	Gordon et al.	606/144
5,391,154	2/1995	Young	604/167	5,720,759	2/1998	Green et al.	606/167
5,397,314	3/1995	Farley et al.	604/256	5,722,958	3/1998	Gravener et al.	604/169
5,407,433	4/1995	Loomas	604/167	5,730,755	3/1998	Yoon	606/185
5,411,483	5/1995	Loomas et al.	604/167	5,741,279	4/1998	Gordon et al.	606/144
5,431,666	7/1995	Sauer et al.	604/139	5,772,672	6/1998	Toy et al.	606/139
5,443,452	8/1995	Hart et al.	604/167	5,776,112	7/1998	Stephens et al.	604/264
5,445,617	8/1995	Yoon	604/165	5,782,812	7/1998	Hart et al.	604/167
5,456,284	10/1995	Ryan et al.	137/522	5,797,943	8/1999	Danks et al.	606/185
5,476,475	12/1995	Gadberry	606/185	5,803,919	9/1998	Hart et al.	604/167
5,484,442	1/1965	Melker et al.	606/79	5,807,338	9/1998	Smith et al.	604/164
5,492,304	2/1996	Smith et al.	251/149.1	5,810,866	9/1998	Yoon	606/185
5,496,280	3/1996	Vandenbroek et al.	604/167	5,824,009	10/1998	Fukuda et al.	606/144
5,507,755	4/1996	Gresl et al.	606/139	5,855,566	1/1999	Dunlap et al.	604/164
5,527,321	6/1996	Hinchliffe	606/144	5,871,488	2/1999	Tovey et al.	606/139
5,538,509	7/1996	Dunlap et al.	604/264	5,895,377	4/1999	Smith et al.	604/256
5,542,931	8/1996	Gravener et al.	604/167	5,935,107	8/1999	Taylor et al.	604/164
				5,941,852	8/1999	Dunlap et al.	604/165

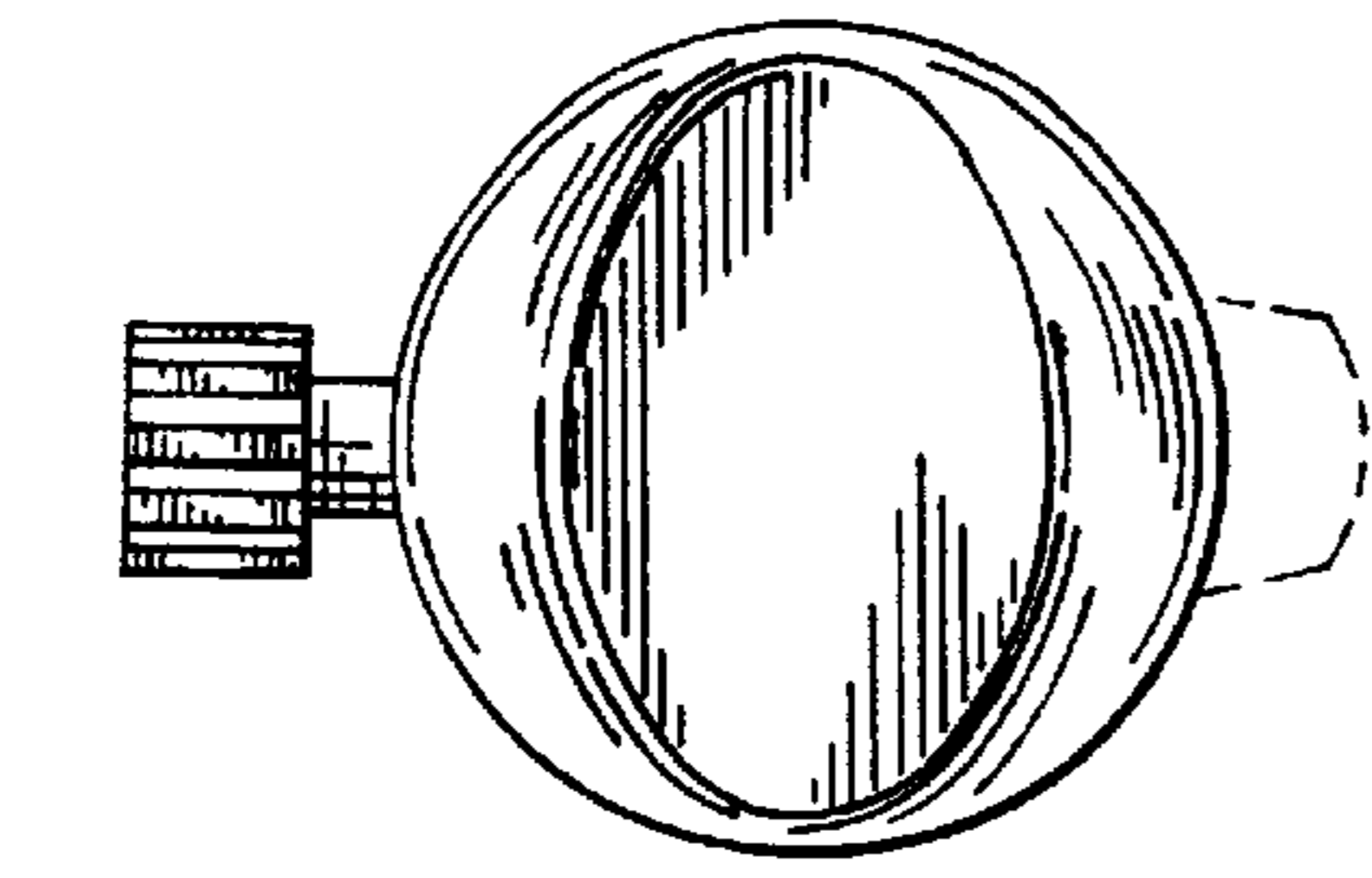


FIG. 3.

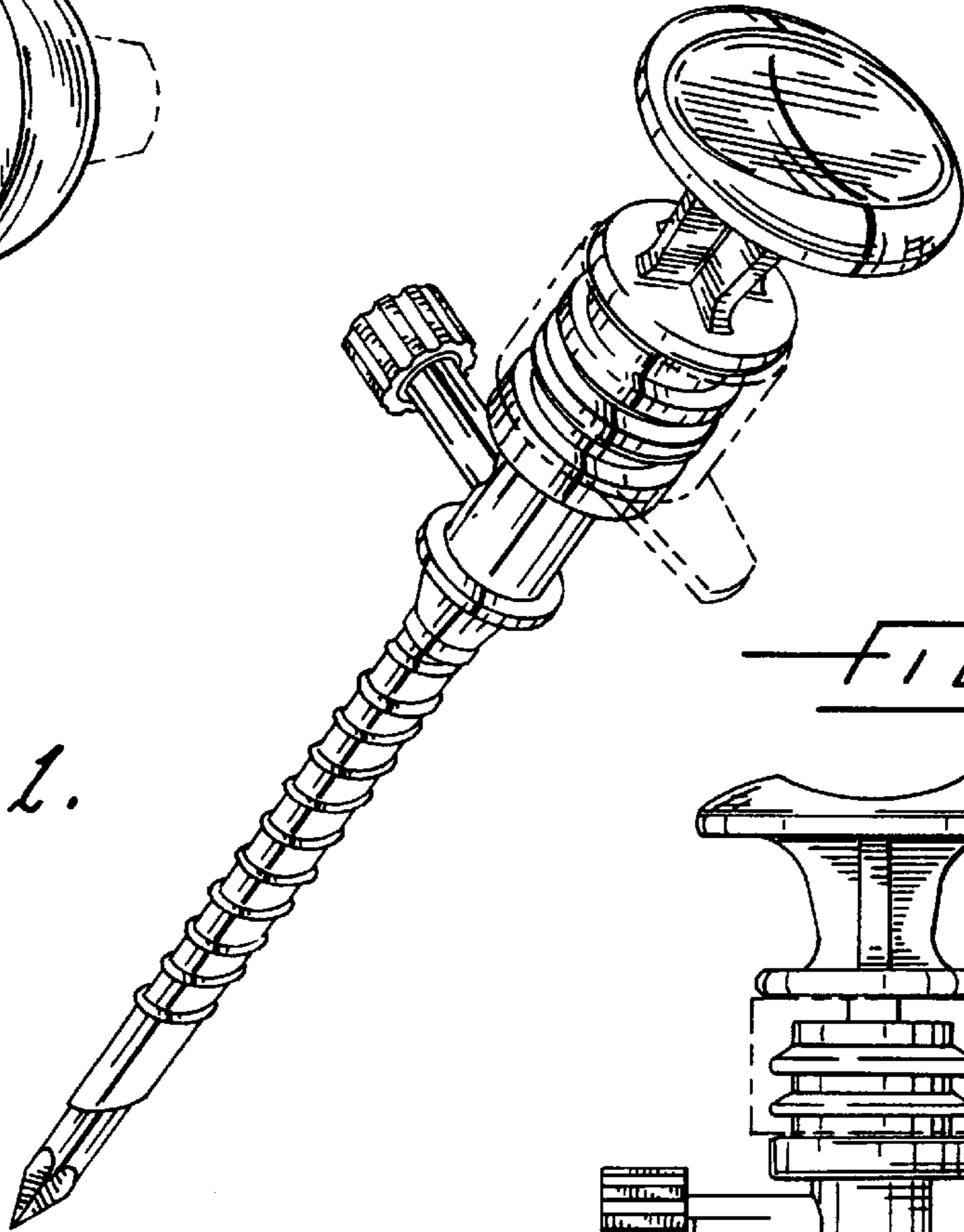


FIG. 1.

FIG. 2.

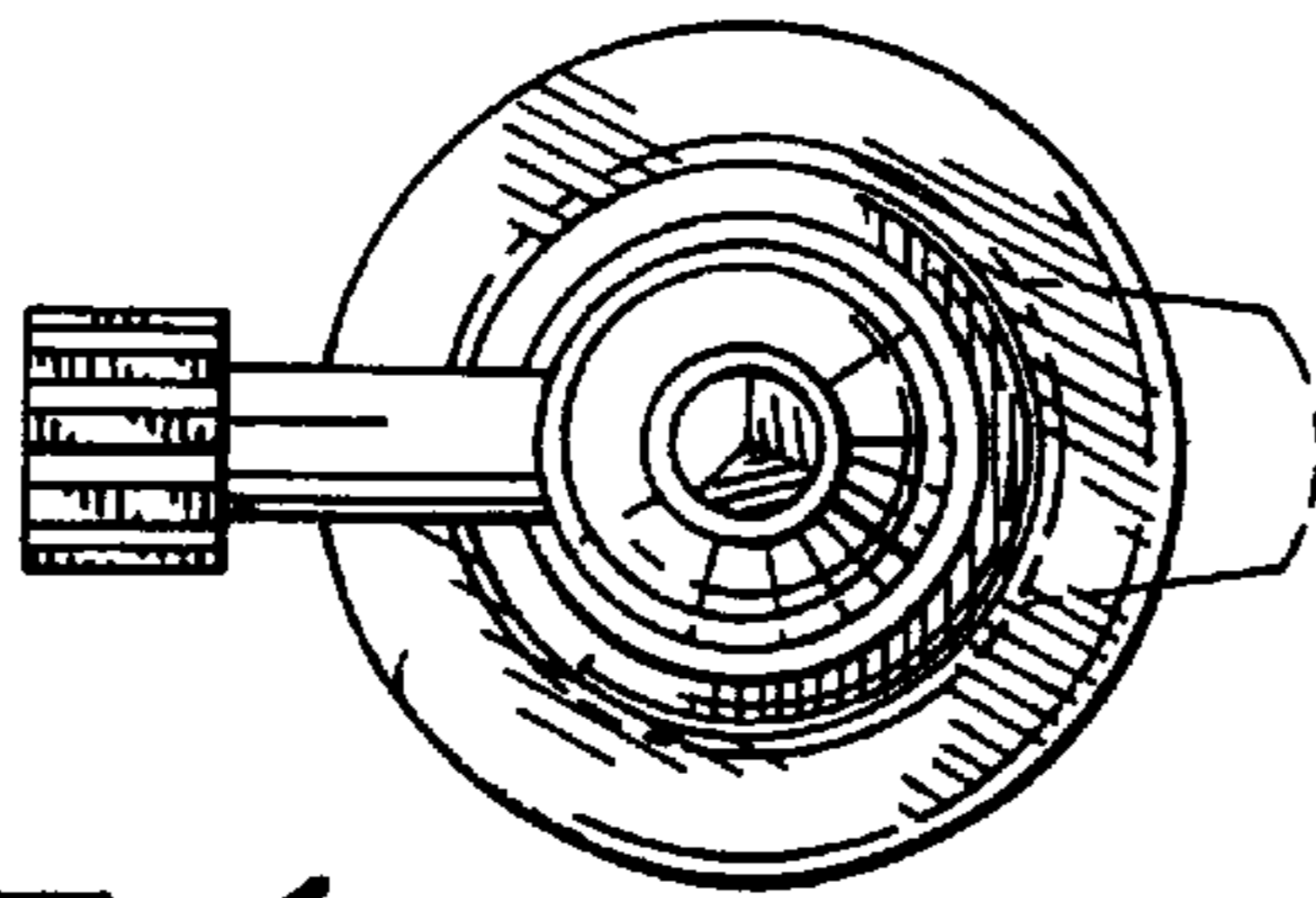
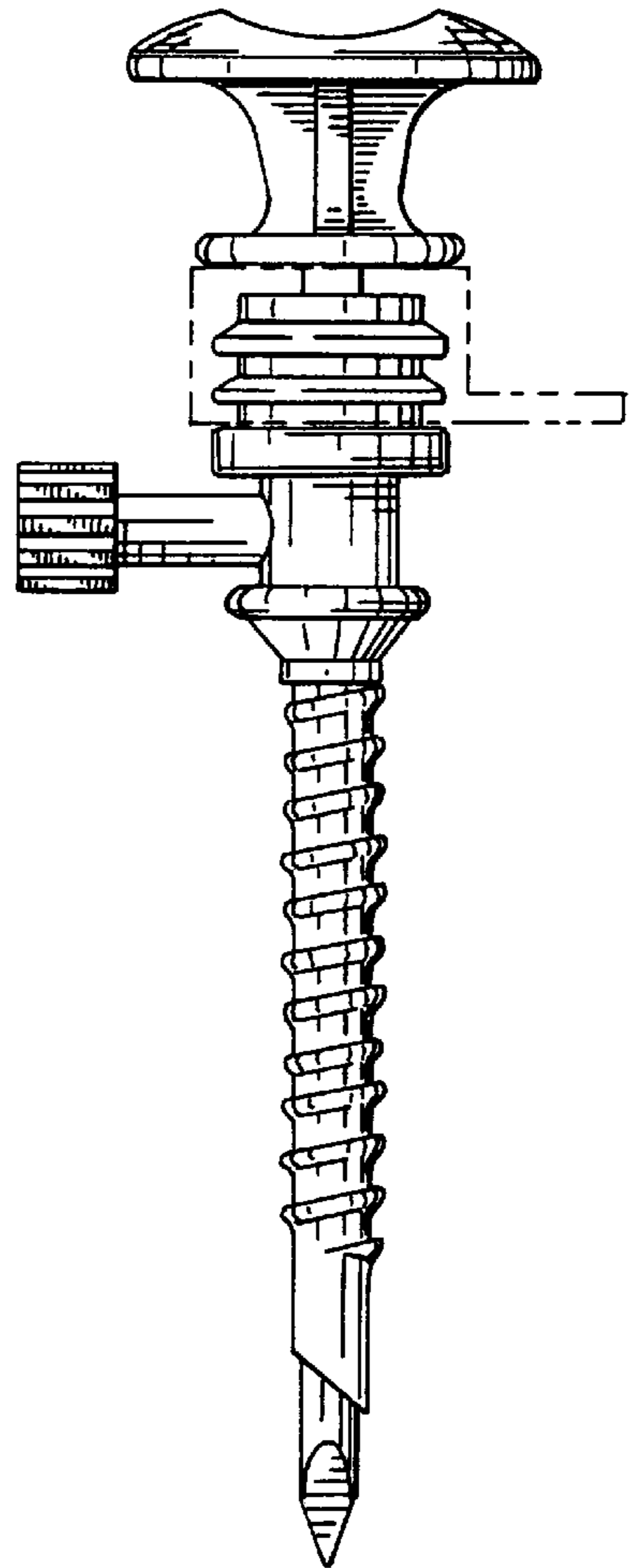


FIG. 4.