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(12) **United States Design Patent** (10) **Patent No.:** **US D792,592 S**
Edwards et al. (45) **Date of Patent:** **** Jul. 18, 2017**

(54) **ANGLED DRILL**
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(**) Term: **14 Years**
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(52) **U.S. Cl.**
USPC **D24/146**
(58) **Field of Classification Search**
USPC D24/146, 147, 148, 113, 133, 137, 138;
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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D245,789 S	9/1977	Shea et al.	
4,917,274 A *	4/1990	Asa	B01L 3/0275 222/420
5,222,956 A	6/1993	Waldron	
5,505,737 A	4/1996	Gosselin et al.	
5,888,200 A	3/1999	Walen	
D419,238 S *	1/2000	Maissami	D24/119
6,037,724 A	3/2000	Buss et al.	
6,113,596 A	9/2000	Hooven et al.	
6,733,218 B2	5/2004	Del Rio	

(Continued)

OTHER PUBLICATIONS

Potentially related design U.S. Appl. No. 29/524,747, filed Apr. 23, 2015.

(Continued)

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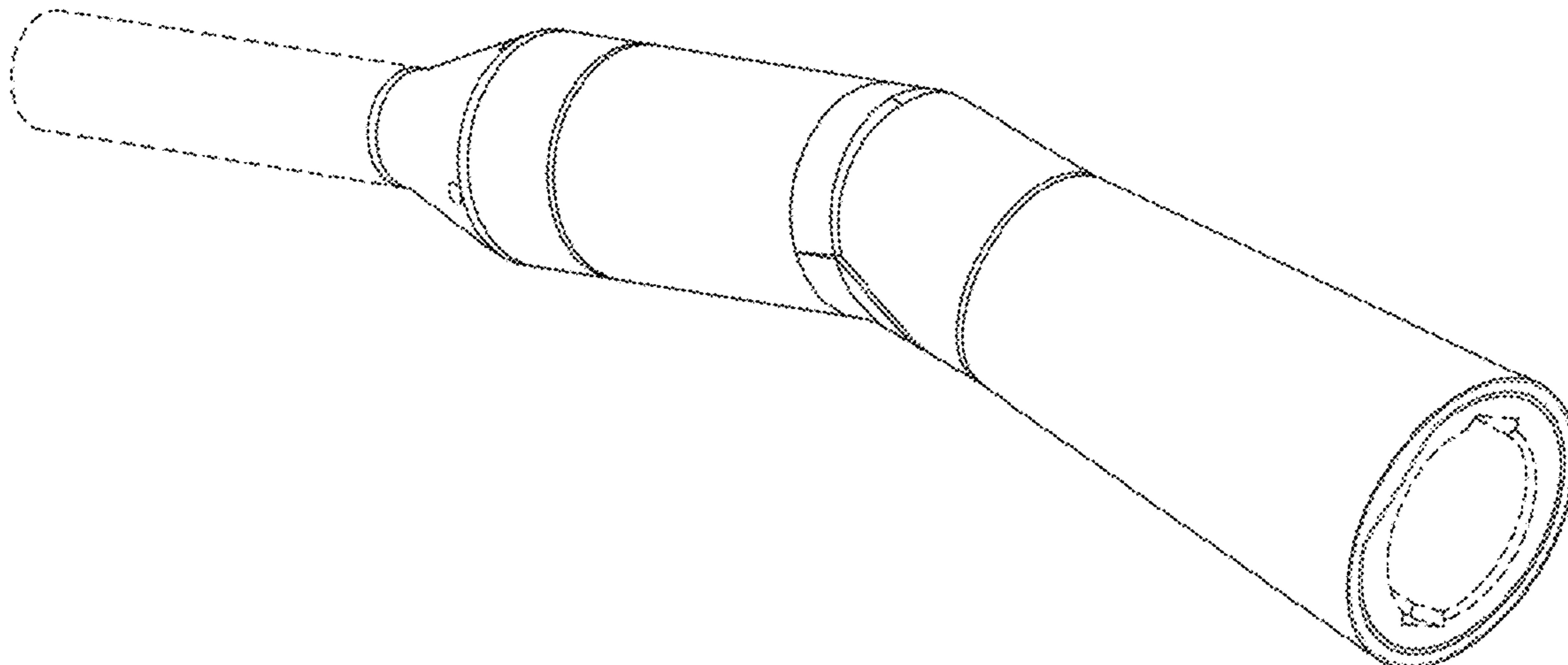
(57) **CLAIM**

The ornamental design for an angled drill, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of an angled drill.
FIG. 2 is a top elevational view thereof.
FIG. 3 is a bottom elevational view thereof.
FIG. 4 is a side elevational view thereof, the other side being a mirror image.
FIG. 5 is an enlarged scale rear elevational view thereof.
FIG. 6 is an enlarged scale front elevational view thereof.
FIG. 7 is a perspective view of an angled drill in an environmental use.
FIG. 8 is top elevational view of FIG. 7.
FIG. 9 is a bottom elevational view of FIG. 7.
FIG. 10 is a side elevational view of FIG. 7, the other side being a mirror image.
FIG. 11 is an enlarged scale rear elevational view of FIG. 7.
FIG. 12 is an enlarged scale front elevational view of FIG. 7; and,
FIG. 13 is a perspective view of an angled drill in a second environmental use.
The broken lines shown in FIGS. 1-6 illustrate portions of the angled drill that form no part of the claimed designs. The broken lines shown in FIGS. 7-13 illustrate the angled drill in an environment of use and forms no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

7,001,391 B2 2/2006 Estes et al.
 7,448,870 B2 11/2008 Maitre
 7,559,927 B2 * 7/2009 Shores A61B 17/162
 606/79
 8,002,770 B2 * 8/2011 Swanson A61B 18/1492
 606/41
 8,277,474 B2 10/2012 Norman et al.
 D687,143 S * 7/2013 Ogura D24/119
 8,597,316 B2 * 12/2013 McCombs A61B 17/162
 606/167
 D717,941 S * 11/2014 Mach D24/113
 9,050,113 B2 * 6/2015 Bloom A61B 17/1671
 9,056,193 B2 * 6/2015 Ignon A61M 35/003
 9,265,407 B2 * 2/2016 Goldfarb A61B 1/00135
 9,402,626 B2 * 8/2016 Ortiz A61B 17/068
 9,402,635 B2 * 8/2016 Boykin A61B 17/141
 9,402,680 B2 * 8/2016 Ginnebaugh A61B 18/085
 9,433,437 B2 * 9/2016 Kesten A61B 17/24
 9,468,362 B2 * 10/2016 Goldfarb A61B 1/018
 D771,253 S * 11/2016 Osada D24/138

D773,661 S * 12/2016 Funakoshi D24/138
 2003/0114850 A1 6/2003 McClurken et al.
 2003/0181904 A1 9/2003 Levine et al.

OTHER PUBLICATIONS

Potentially related design U.S. Appl. No. 29/524,744, filed Apr. 23, 2015.
 Visao Handpiece image obtained from <<http://www.orientmed.org/ViewProduct.aspx?id=25>> last accessed Jun. 19, 2015.
 Image of Drill Surgical Power Tool, EPV-220 series DeSoutter Medical obtained from <<http://www.medicalexpo.com/prod/desoutter-medical/product-68192-420003.html>> last accessed Jun. 19, 2015.
 Image of Stryker 5400-100 Core U Drill obtained from <http://www.re-owned.com/itemcode-57n82n1_003> last accessed Jun. 19, 2015.
 Image of China Micro Bone Drill from Shanghai Bojin Medical Instrument Co., Ltd. Obtained from <<http://shbojin.en.made-in-china.com/product/LBimKWEdXUhV/China-Micro-Bone-Drill.html>> last accessed Jun. 19, 2015.
 Olympus, Viper Otology Drill System, 4 pages, published Aug. 2010.

* cited by examiner

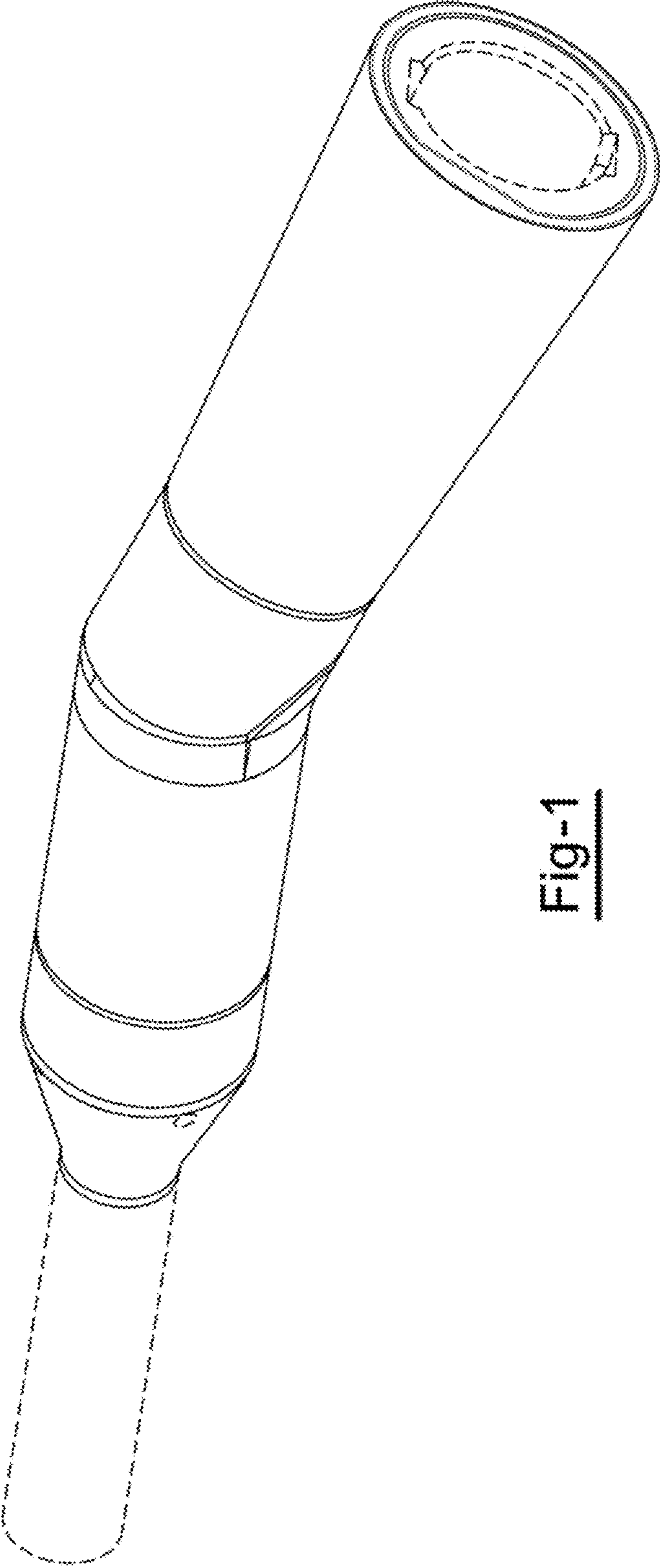


Fig-1

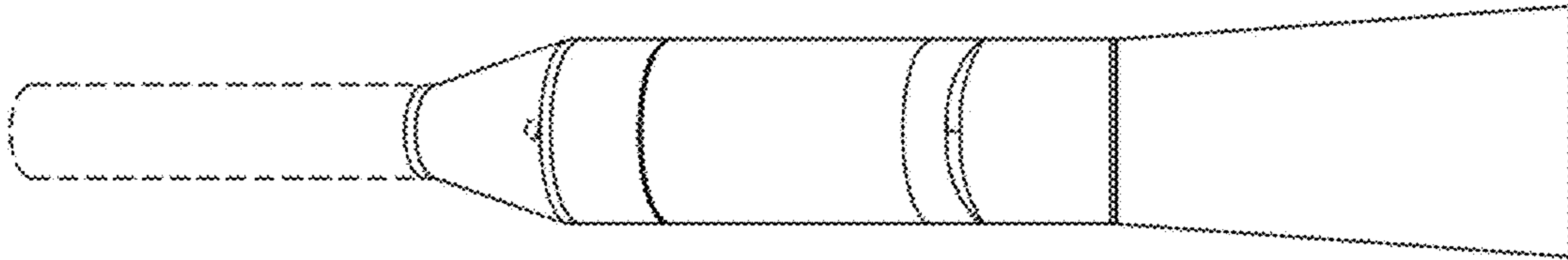


Fig-2

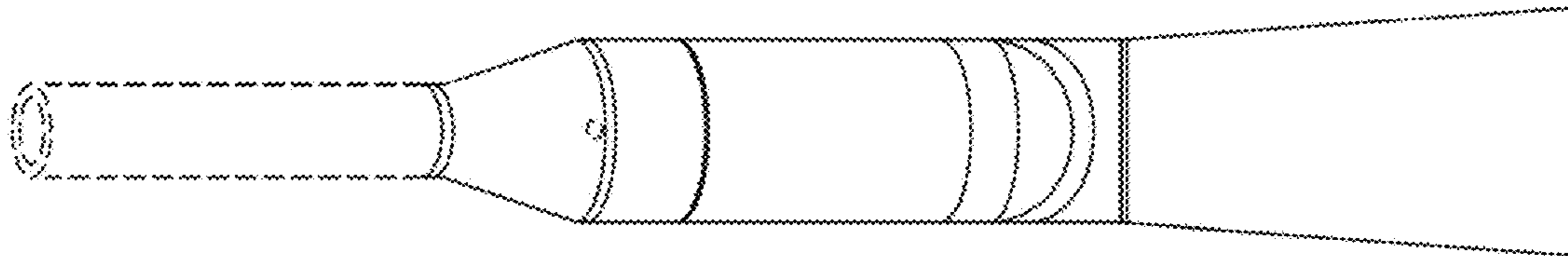


Fig-3

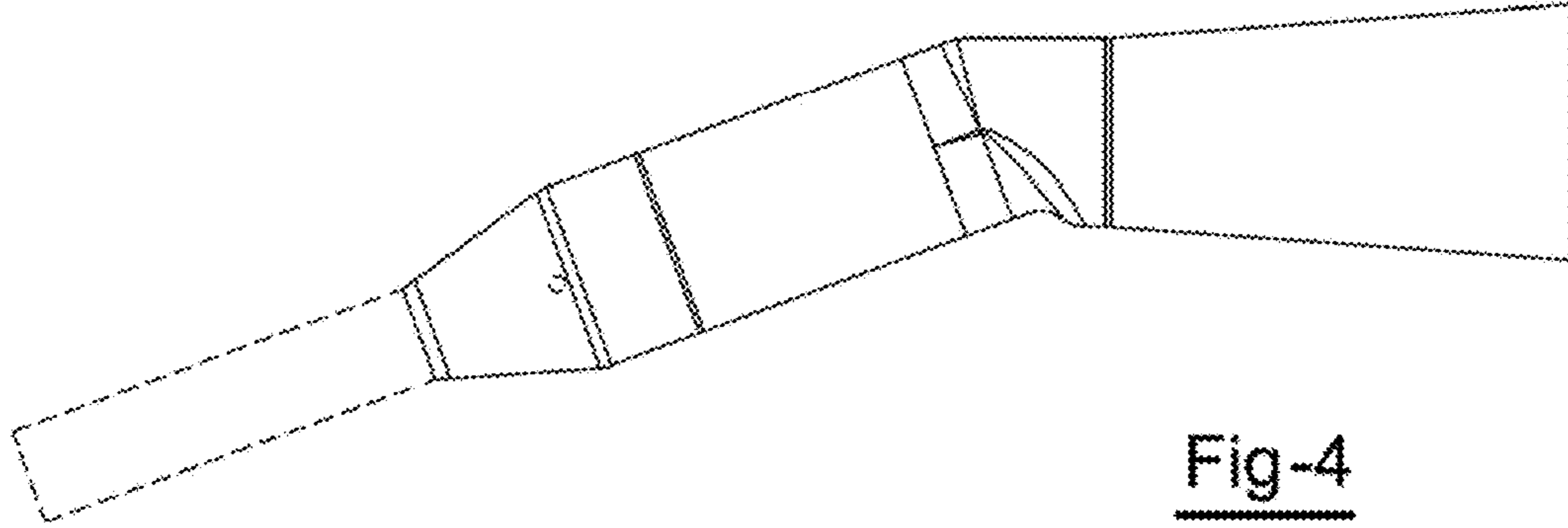


Fig-4

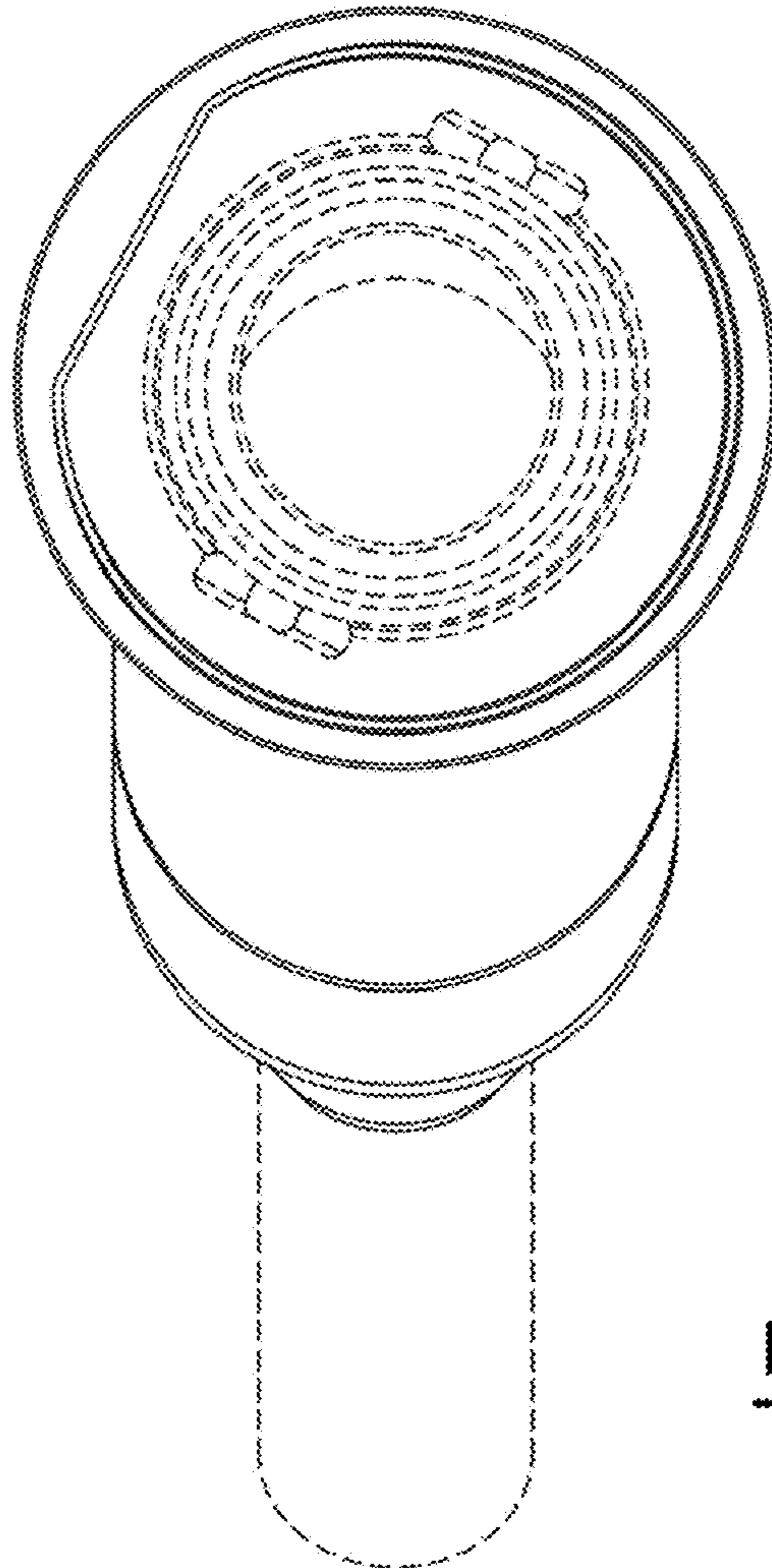


Fig-5

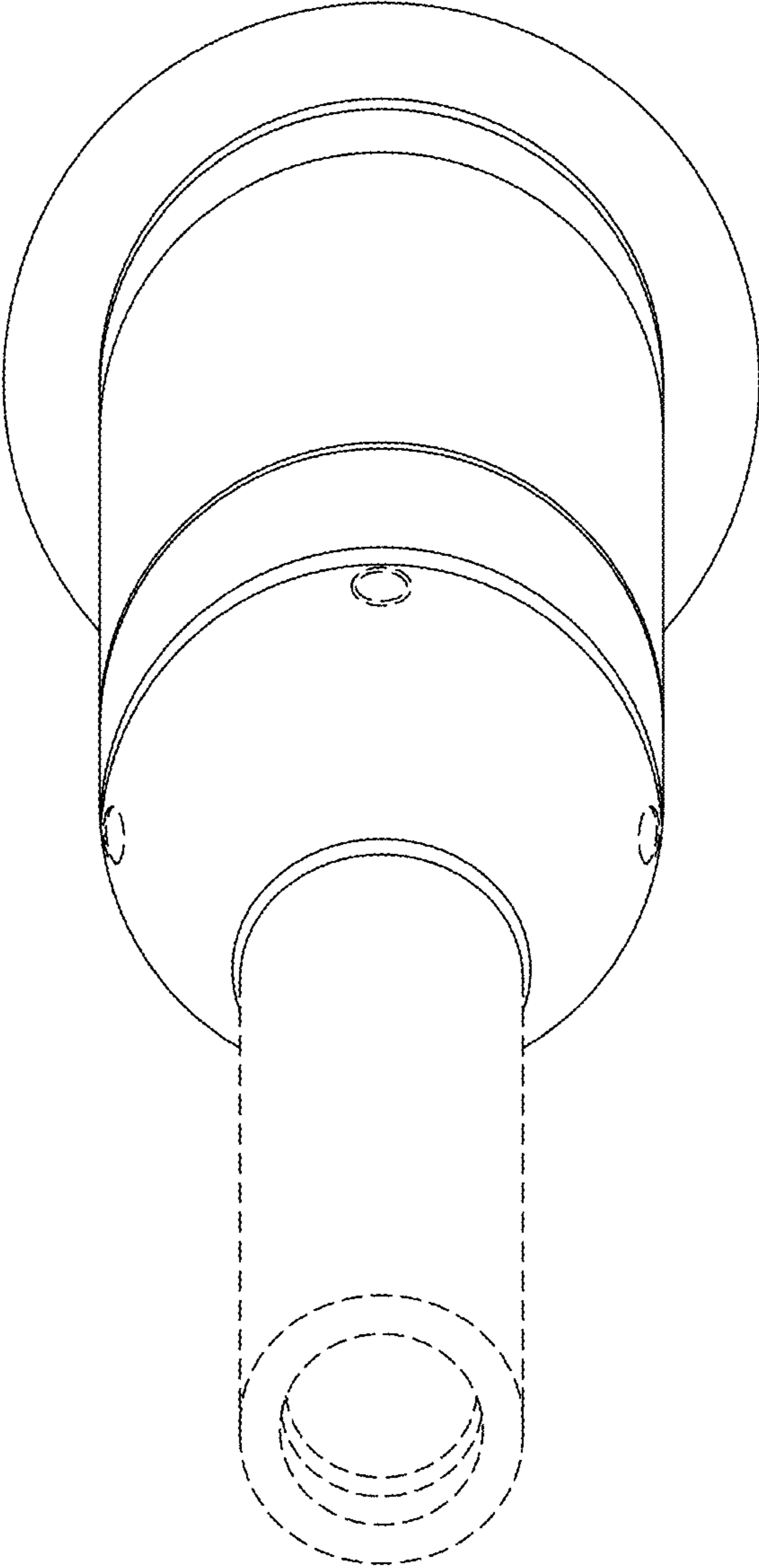


Fig-6

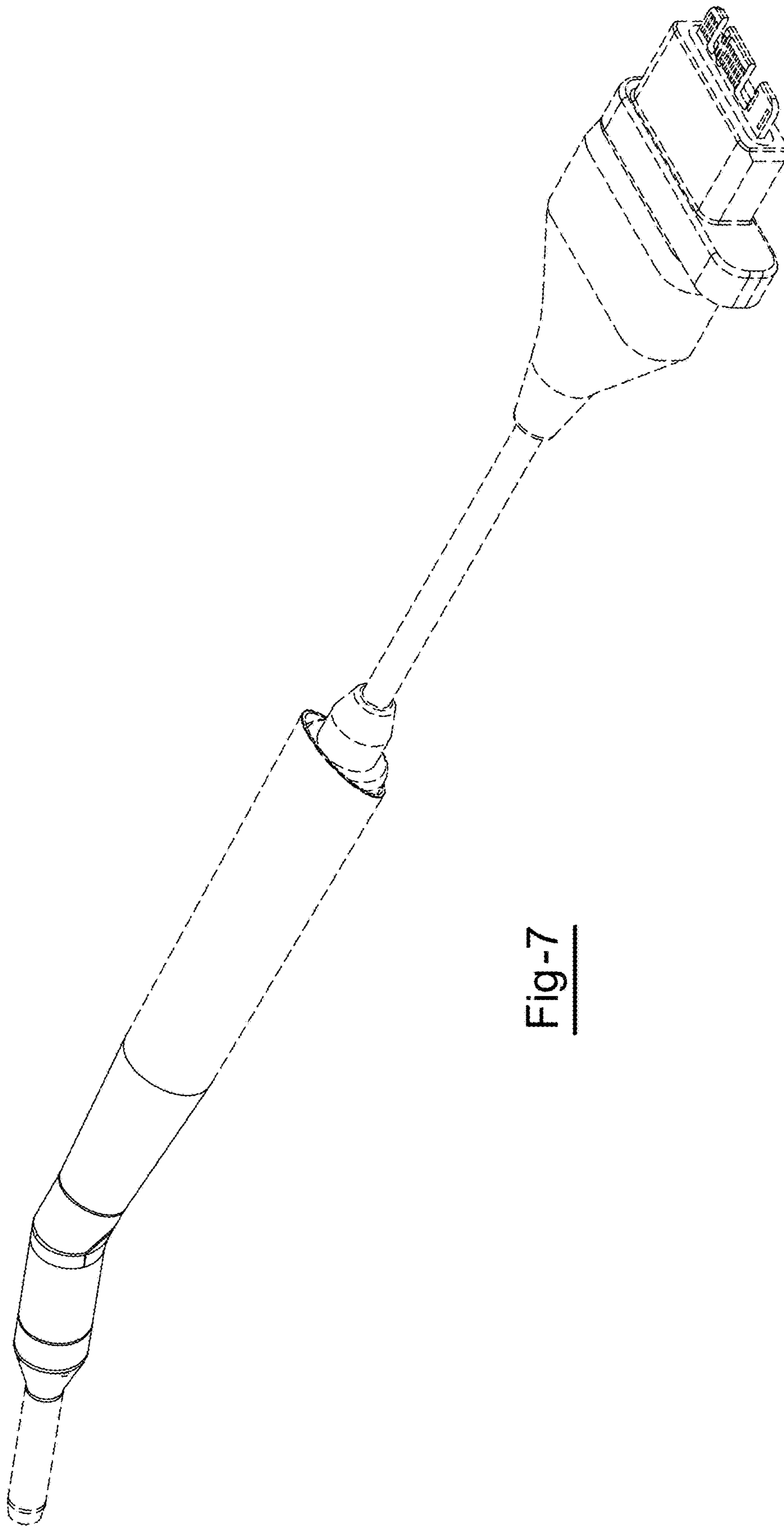


Fig-7

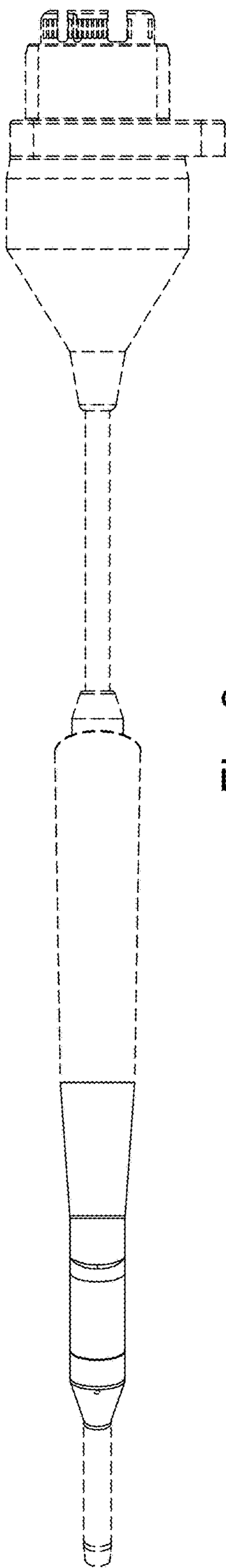


Fig-8

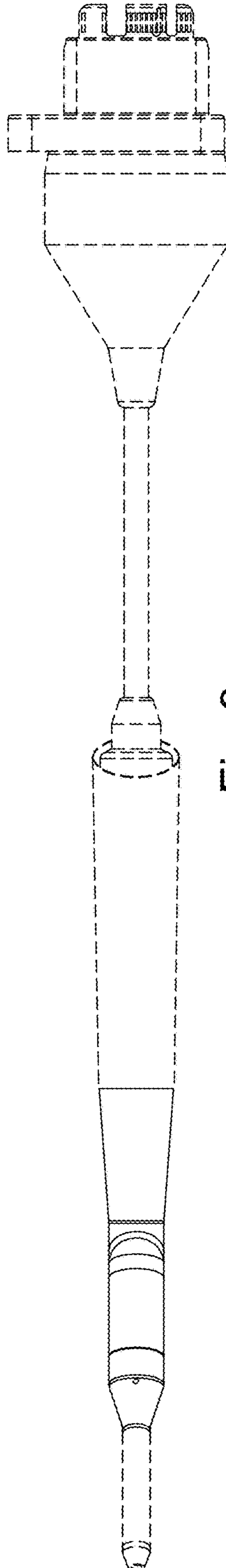


Fig-9

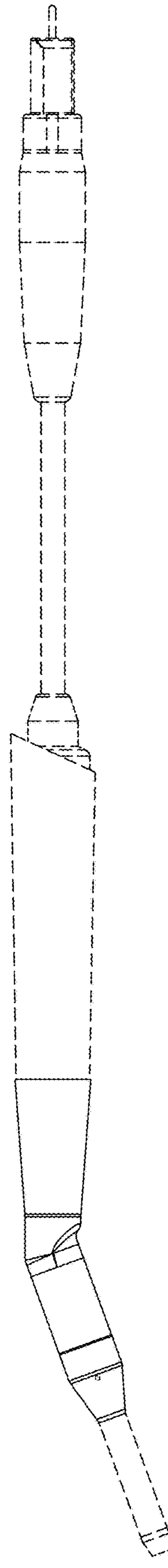


Fig-10

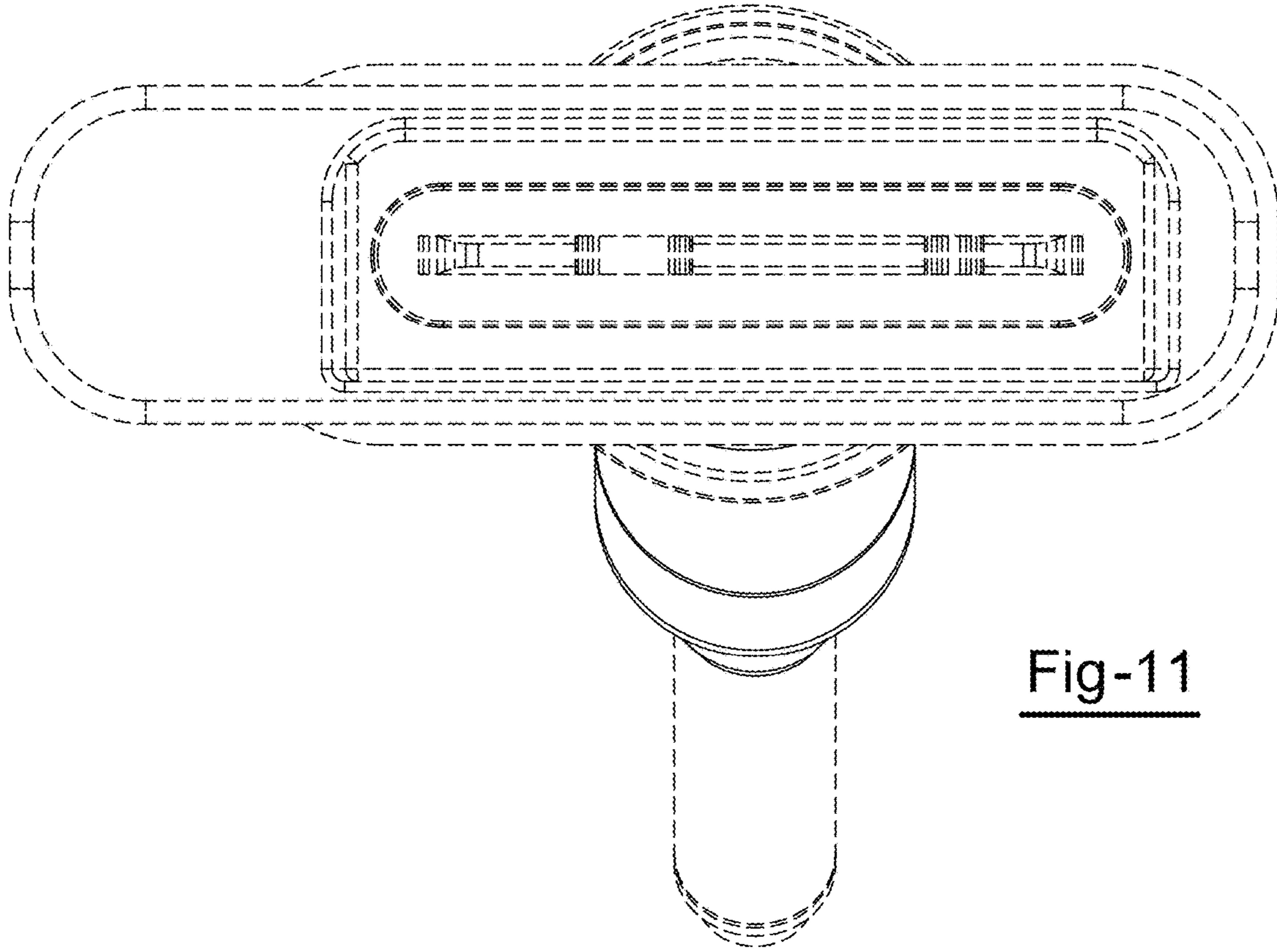


Fig-11

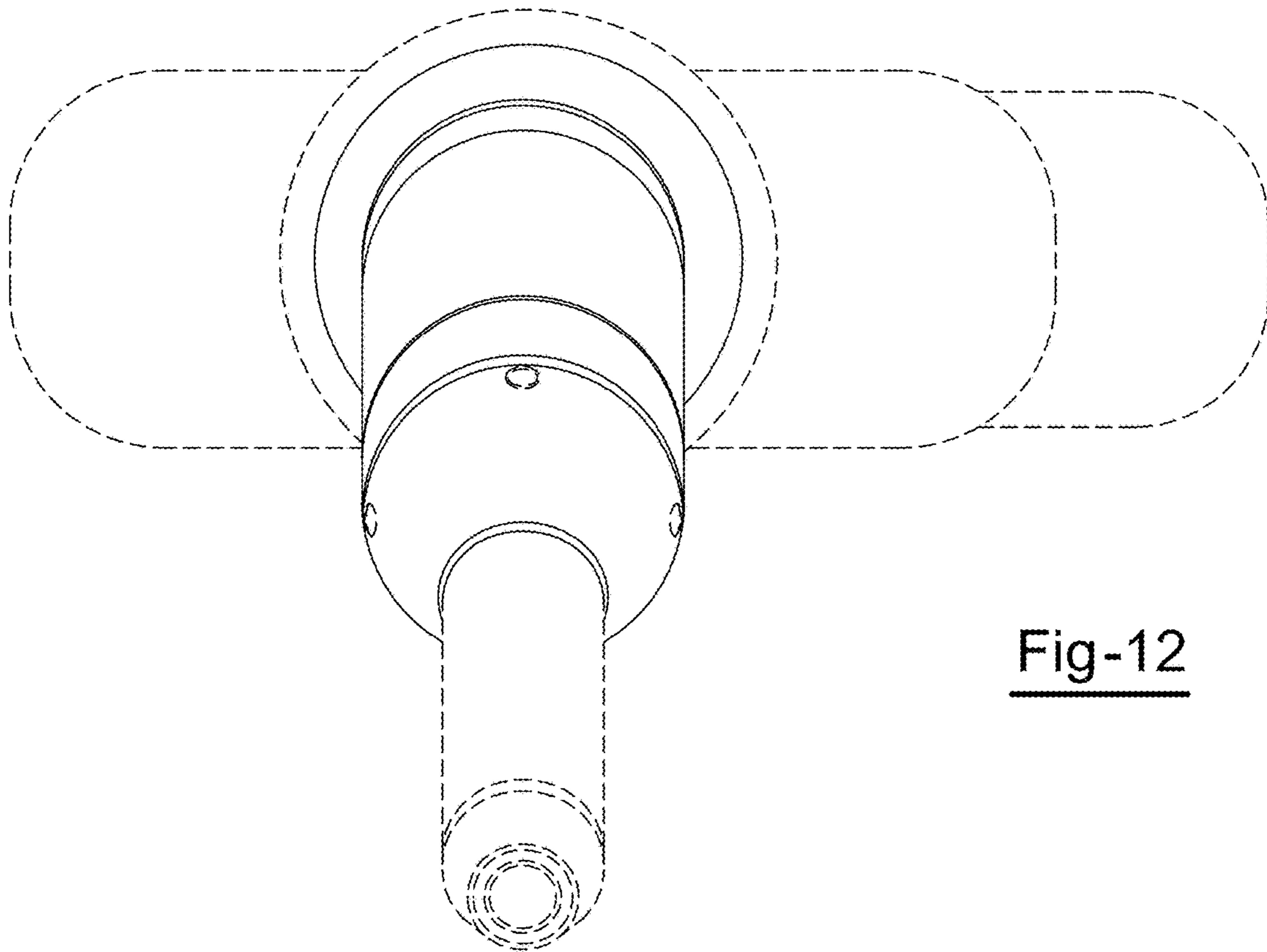


Fig-12

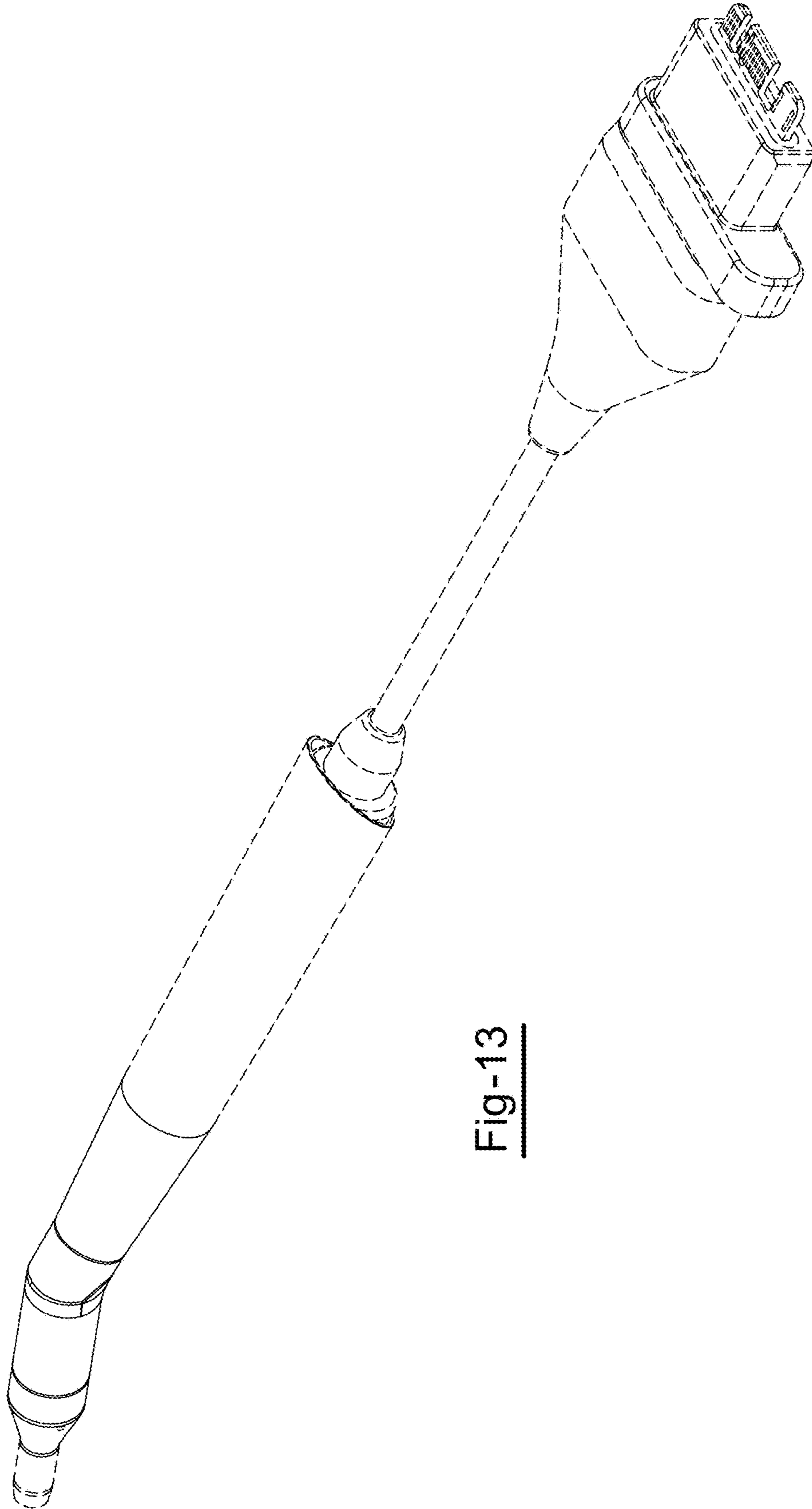


Fig-13