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**Oberlaender et al.**

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(54) **TROCAR**

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(\*\*) Term: **14 Years**

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(51) **LOC (10) Cl.** ..... **24-02**

(52) **U.S. Cl.**  
USPC ..... **D24/146**

(58) **Field of Classification Search**  
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D19/110, 115; D24/127, 130, 133,  
D24/146, 147, 148  
CPC ..... B26B 3/00; B26B 1/10; B26B 5/005;  
A61B 17/809; A61B 17/1617; A61B 17/3211;  
A61B 5/1411; A61B 17/3417  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D570,480 S \* 6/2008 Rehbein et al. .... D24/133  
D570,481 S \* 6/2008 Rehbein et al. .... D24/133

D596,291 S \* 7/2009 Berberich et al. .... D24/133  
D605,765 S 12/2009 Gaab  
D648,022 S \* 11/2011 Becker ..... D24/138  
D657,464 S \* 4/2012 Becker ..... D24/138  
D667,544 S \* 9/2012 Bettocchi ..... D24/137  
D669,173 S \* 10/2012 Becker et al. .... D24/138  
D669,580 S \* 10/2012 Eisenkolb et al. .... D24/137  
D670,383 S \* 11/2012 Eisenkolb et al. .... D24/137  
D672,462 S \* 12/2012 Campo ..... D24/138  
D676,553 S \* 2/2013 Becker ..... D24/146  
D682,423 S \* 5/2013 Becker ..... D24/133  
2009/0318763 A1 12/2009 Koerner et al.  
2010/0137895 A1\* 6/2010 Smith ..... 606/185

**FOREIGN PATENT DOCUMENTS**

EP 0 891 156 B1 7/2004  
EP 2 135 542 B1 9/2012

\* cited by examiner

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(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a perspective view of a trocar according to the present invention.

FIG. 2 is a front view of the trocar of FIG. 1.

FIG. 3 is a rear view of the trocar of FIG. 1.

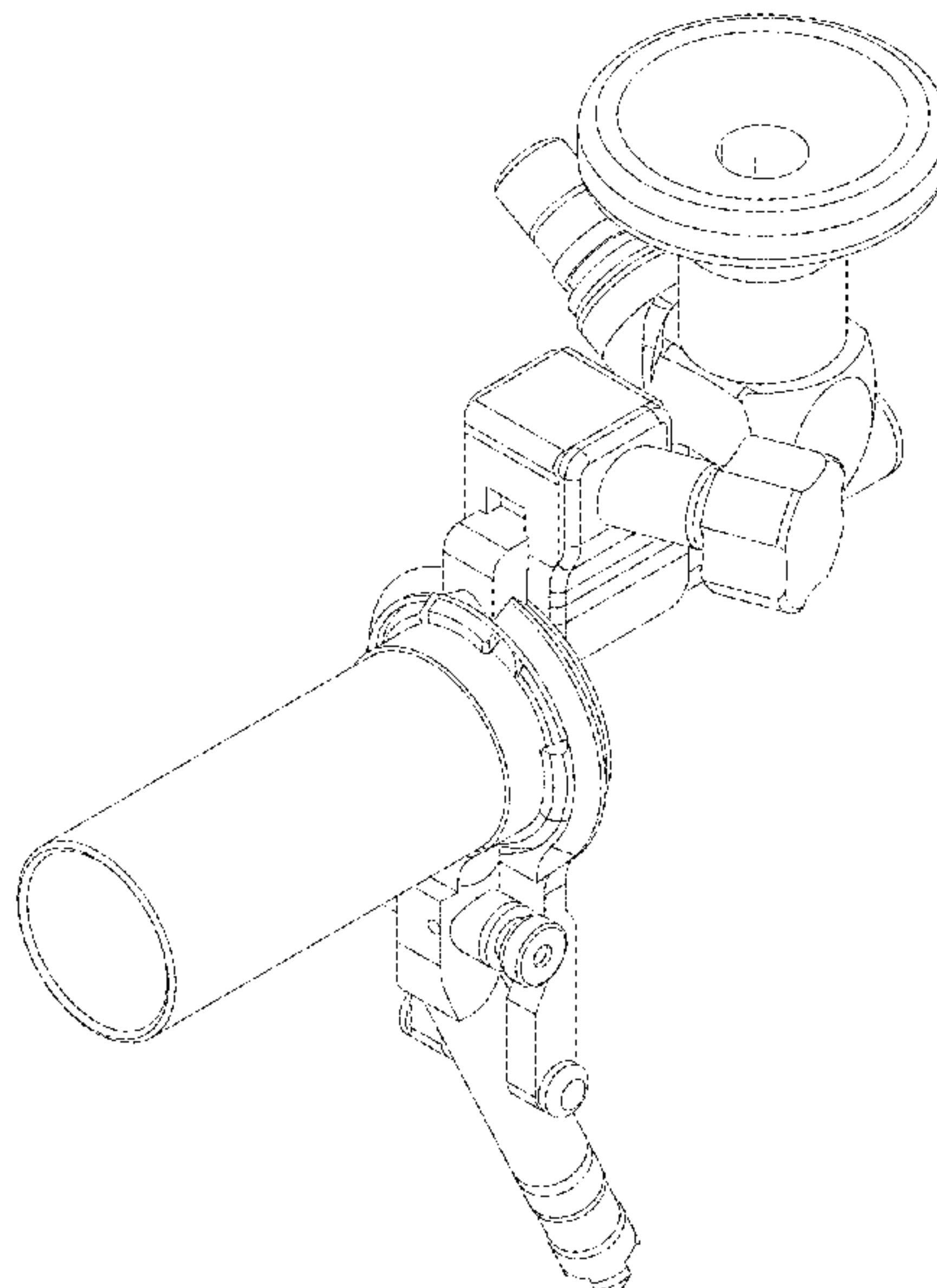
FIG. 4 is a right side view of the trocar of FIG. 1.

FIG. 5 is a left side of the trocar of FIG. 1.

FIG. 6 is a bottom view of the trocar of FIG. 1; and,

FIG. 7 is a top view of the trocar of FIG. 1.

**1 Claim, 7 Drawing Sheets**



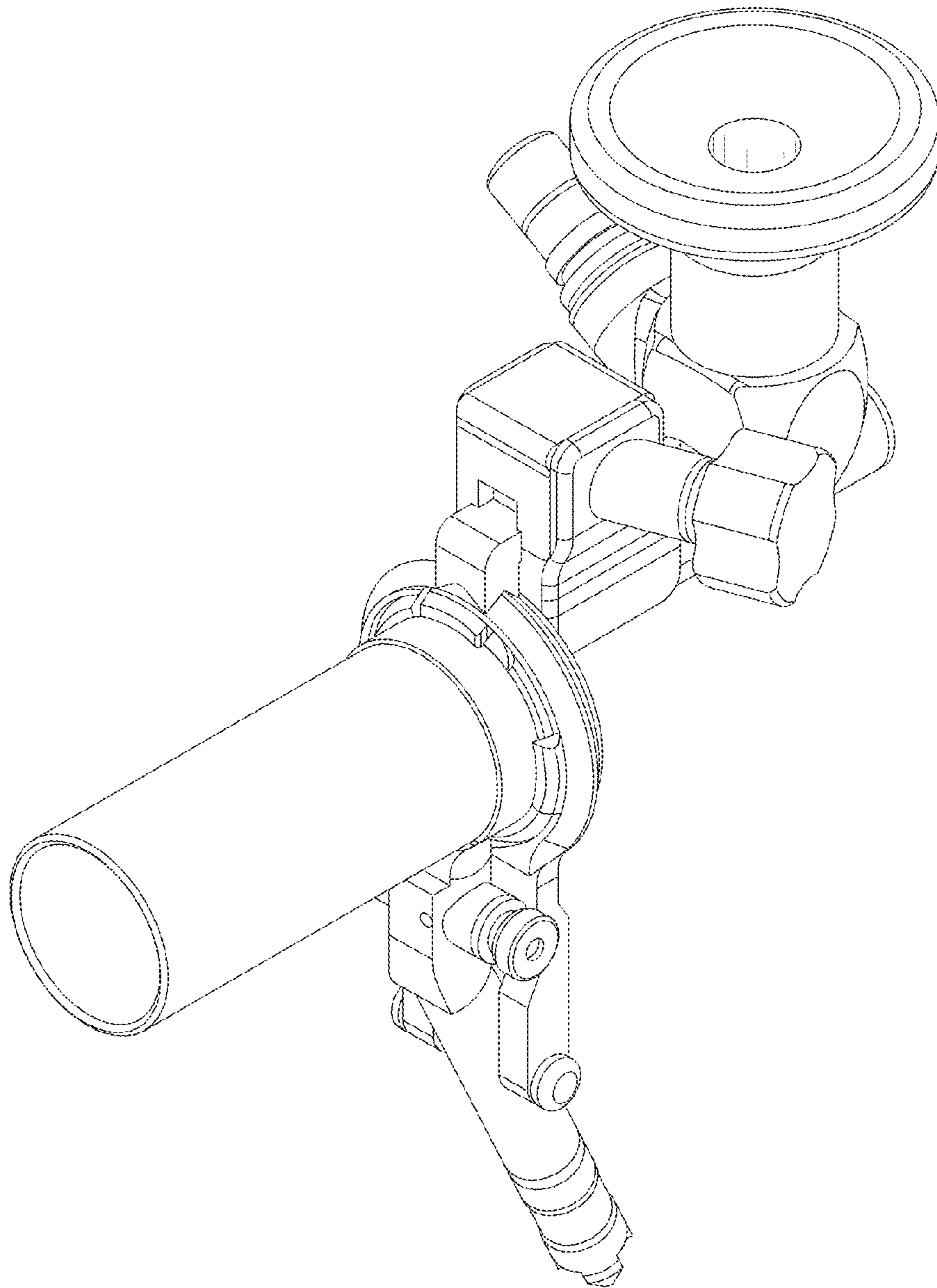


FIG.1

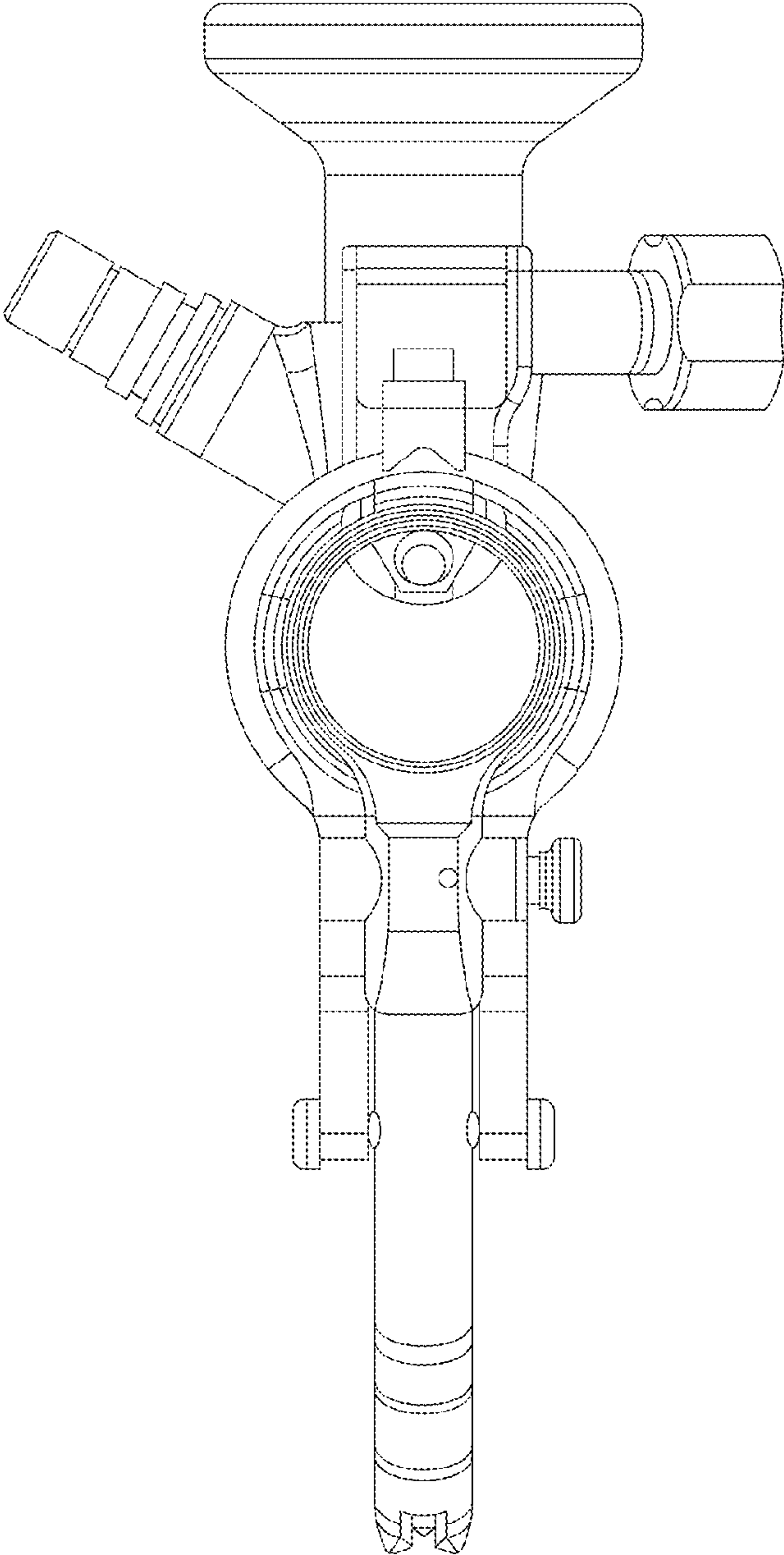


FIG.2

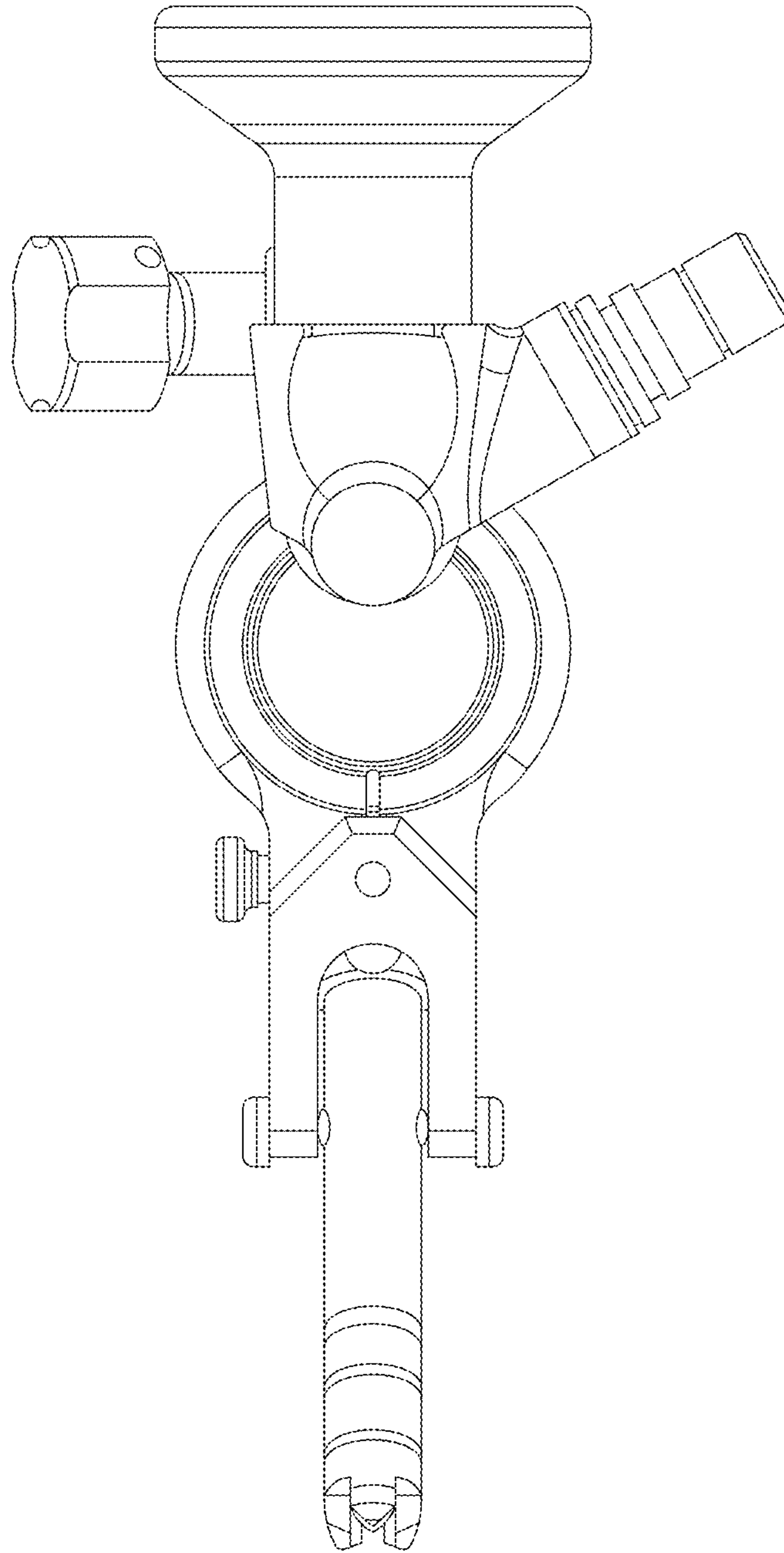


FIG.3

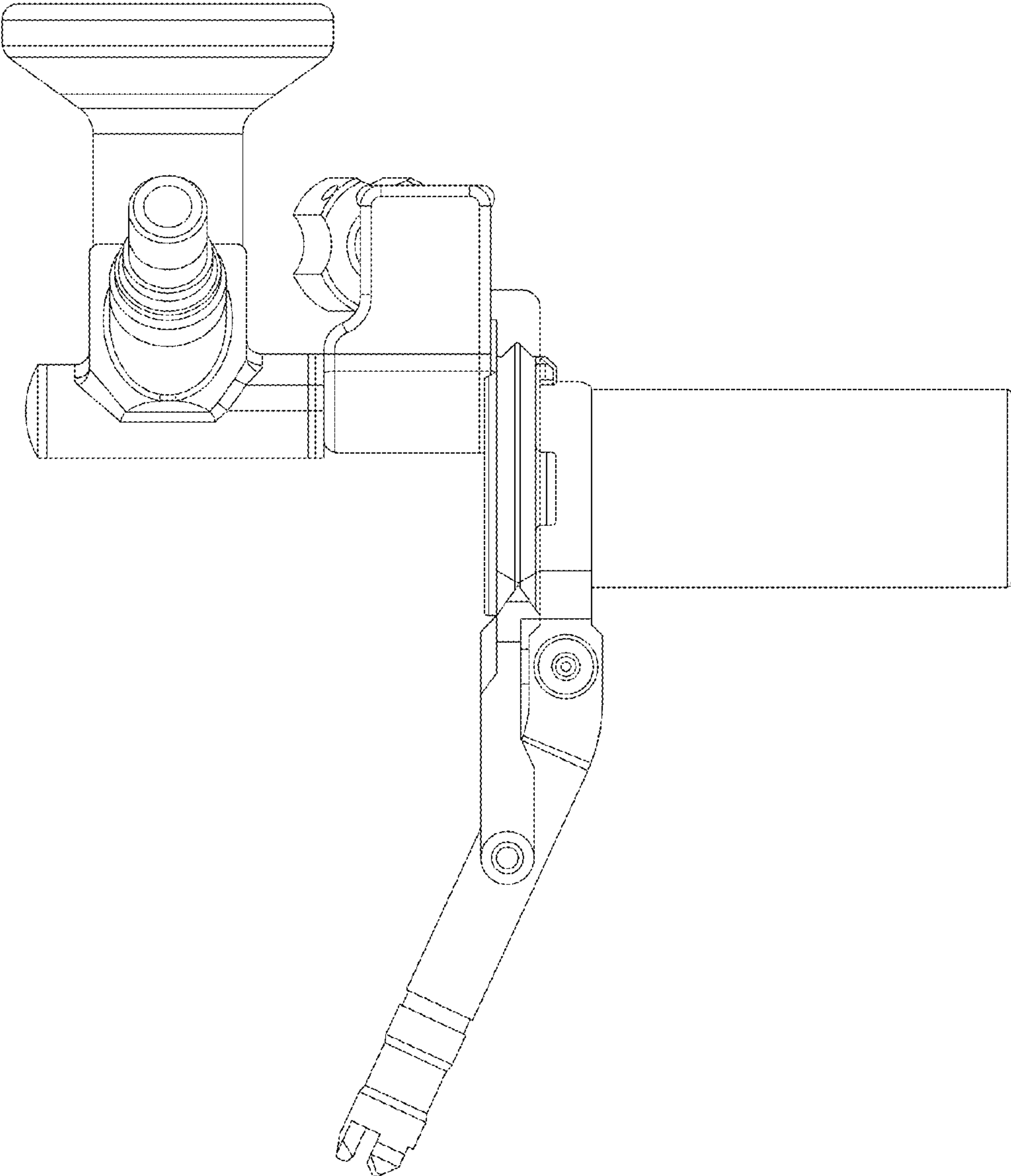


FIG.4



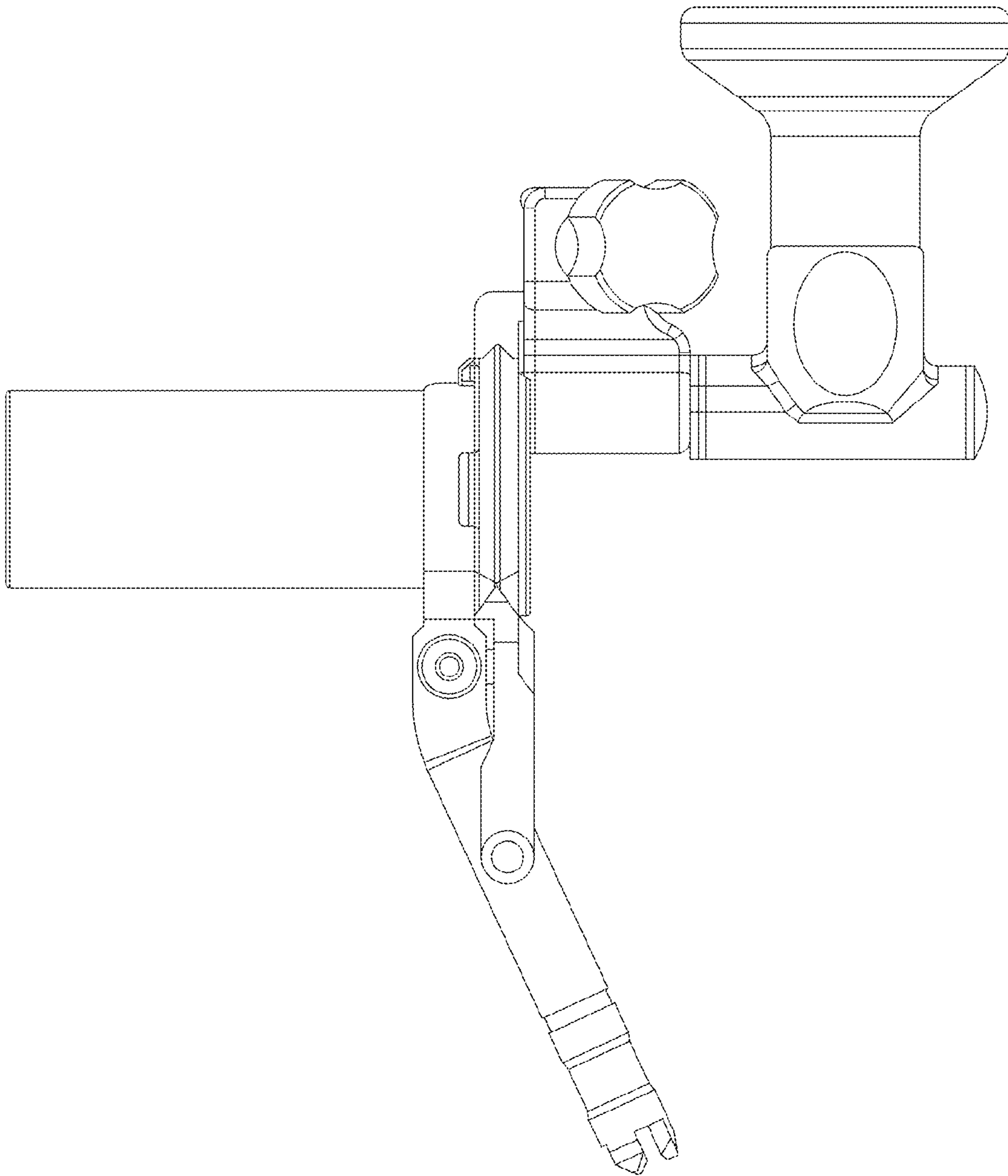


FIG. 5

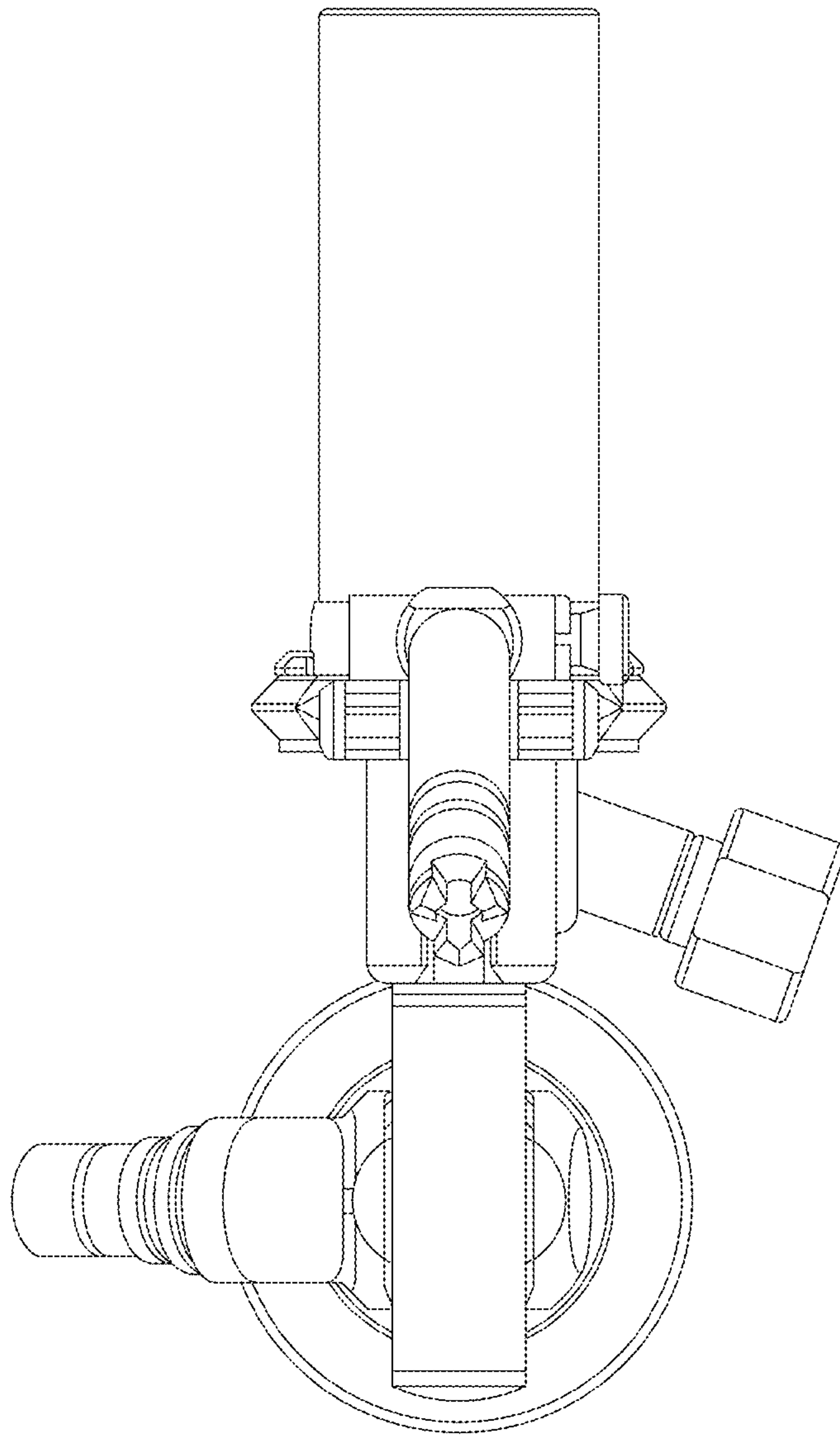


FIG.6

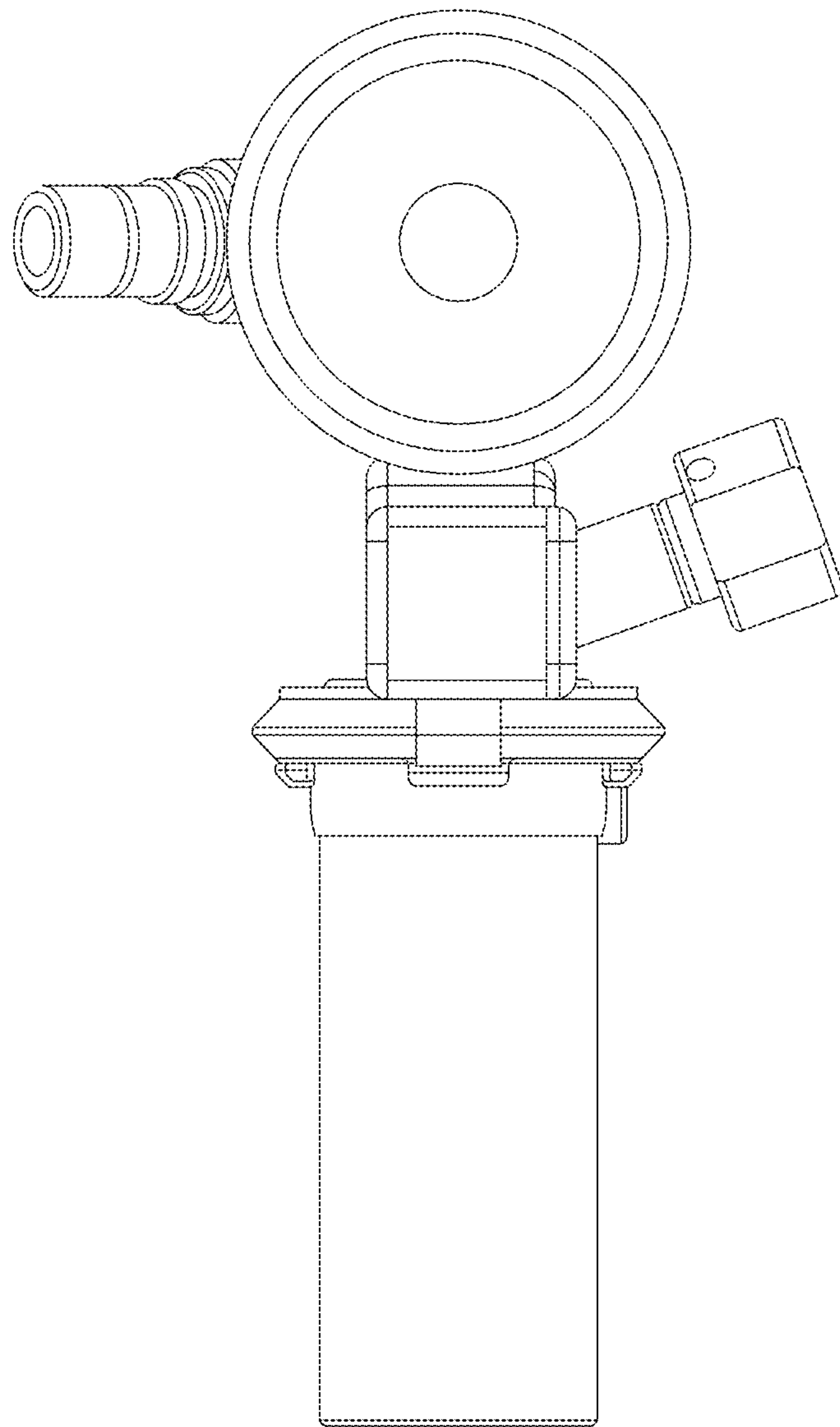


FIG.7