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(12) **United States Design Patent** (10) **Patent No.:** **US D857,783 S**
Kuroda (45) **Date of Patent:** **** Aug. 27, 2019**

(54) **PROJECTOR LENS UNIT FOR A PROJECTOR**
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(**) Term: **15 Years**
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(51) **LOC (12) Cl.** **16-02**

(52) **U.S. Cl.**
USPC **D16/235**

(58) **Field of Classification Search**
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D26/2, 35, 36, 123, 124; 353/115, 119,
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CPC G03B 21/00; G03B 21/20; G03B 21/2006;
G03B 21/2013; G03B 21/202; G03B
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G02B 27/00

See application file for complete search history.

(56) **References Cited**
U.S. PATENT DOCUMENTS

D38,410 S 1/1907 Crary
D68,189 S 9/1925 Beyer
D68,896 S 12/1925 Berk
3,461,009 A 8/1969 Snyder
5,908,265 A 6/1999 Mostkoff
D447,964 S 9/2001 Kompa
(Continued)

OTHER PUBLICATIONS

Communication dated May 4, 2018 issued by the United States Patent and Trademark Office in U.S. Appl. No. 29/573,059.
(Continued)

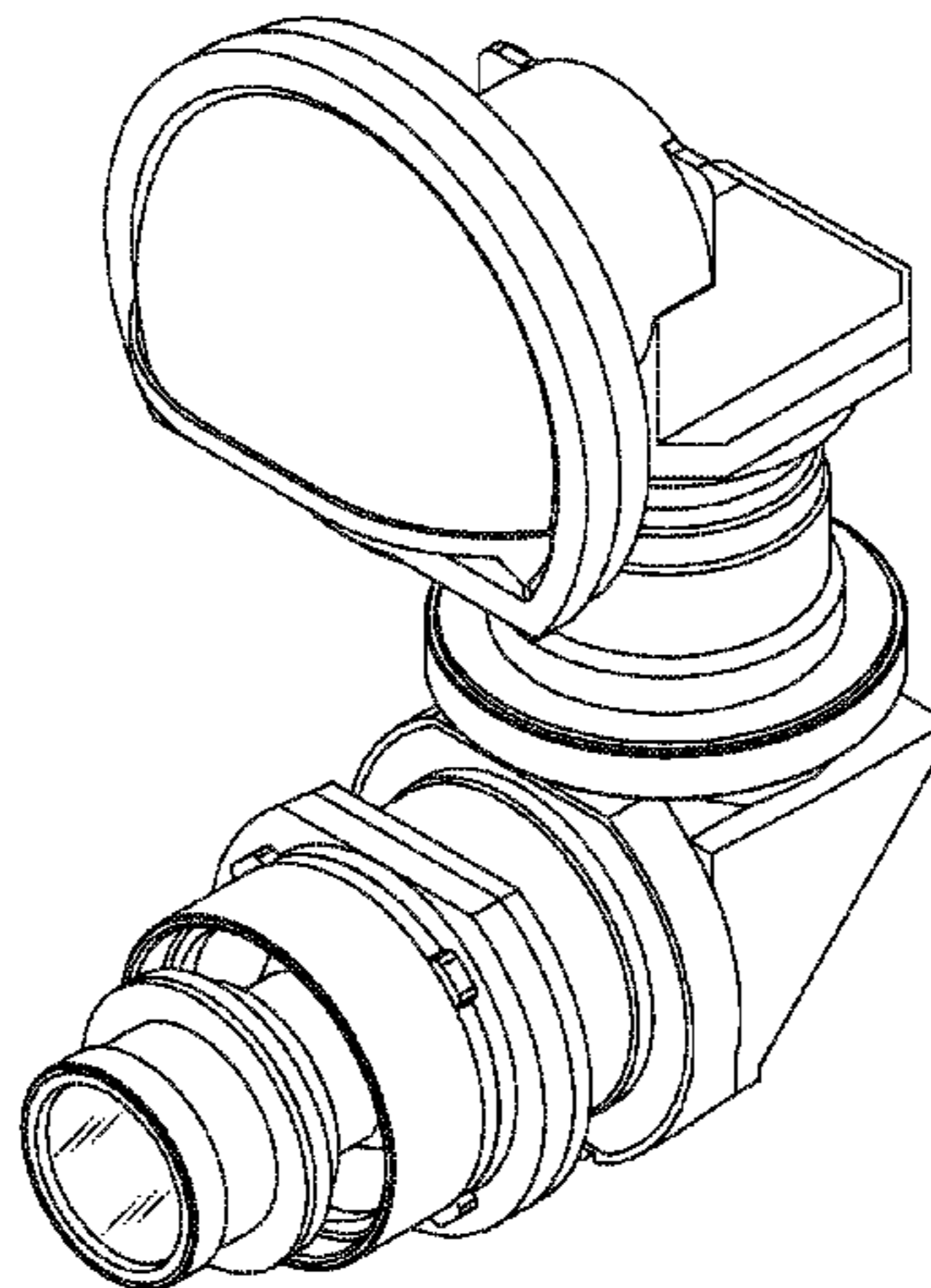
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(57) **CLAIM**
The ornamental design for a projector lens unit for a projector, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of the projector lens unit for a projector, showing the new design;
FIG. 2 is a front view thereof.
FIG. 3 is a rear view thereof.
FIG. 4 is a top view thereof.
FIG. 5 is a bottom view thereof.
FIG. 6 is a left side view thereof; and,
FIG. 7 is a right side view thereof.
The article according to the design of the present application is a projector lens unit for a projector which is connected and used with a projector portion of a projector.
The lens portions outlined by solid line in the lower circular form in the front views of FIG. 2, for example, is transparent. These portions are also transparent across the other views (e.g. FIGS. 1, 6-7). The lower lens is cut into planar shape.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D461,200 S 8/2002 Pierotti
 6,461,025 B1* 10/2002 Payne F21V 15/01
 362/362
 D500,343 S 12/2004 McRobbie
 7,104,654 B2* 9/2006 Tamaru G03B 21/20
 353/119
 D534,076 S 12/2006 Green
 D553,661 S 10/2007 Nakayama
 D554,174 S 10/2007 Nakayama
 D582,466 S* 12/2008 Nakano D16/235
 D584,328 S* 1/2009 Sasaki D16/235
 D589,997 S* 4/2009 Hieda D16/235
 D605,216 S* 12/2009 Nakano D16/235
 D611,080 S 3/2010 Chen
 D616,005 S 5/2010 Peng
 D624,105 S 9/2010 Peng
 D630,666 S 1/2011 Matsumoto
 D631,076 S 1/2011 Liu
 D655,739 S 3/2012 Ogawa
 D661,721 S 6/2012 Fujikawa
 D663,346 S 7/2012 Fujikawa
 D689,916 S* 9/2013 Tateno D16/235
 D701,259 S* 3/2014 Inui D16/235
 D701,638 S 3/2014 Inaba
 D718,802 S* 12/2014 Ishibashi D16/230
 D719,700 S 12/2014 Chou
 D722,636 S* 2/2015 Ishibashi D16/225
 D727,558 S 4/2015 Tang
 D728,000 S* 4/2015 Inui D16/235
 9,004,700 B2 4/2015 DeCusatis
 D765,752 S 9/2016 Chiu

D765,753 S 9/2016 Hsu
 D771,860 S 11/2016 Weiss
 D773,302 S 12/2016 Henriksson
 D778,334 S 2/2017 Takatori
 D782,103 S 3/2017 Shields
 D788,837 S* 6/2017 Miyata D16/235
 9,709,879 B2 7/2017 Otsuki
 9,726,964 B2 8/2017 Enokishima
 D803,470 S 11/2017 Austin, III
 D803,918 S 11/2017 Kameda
 D809,585 S* 2/2018 Shimizu D16/235
 2005/0213058 A1 9/2005 Inamoto
 2006/0181786 A1* 8/2006 Chiang G02B 7/023
 359/811
 2007/0058239 A1* 3/2007 Sekine G02B 26/0833
 359/291
 2013/0141801 A1 6/2013 Yun
 2013/0286355 A1 10/2013 Lin
 2015/0109683 A1* 4/2015 Mitarai G02B 7/08
 359/696
 2015/0378247 A1 12/2015 Otsuki
 2016/0011494 A1 1/2016 Otsuki
 2018/0372984 A1* 12/2018 Shirotori G02B 7/025

OTHER PUBLICATIONS

Planetarium Projectors; Retrieved from Discovery Dome <http://www.eplanetarium.com/projectors.php>; Retrieved on Apr. 17, 2018; found on discoverydome.com Mar. 7, 2010; (tineye) <https://tineye.com/search/c31000b80d57d663796517129fd37e4e1949e441/> (Year: 2010).

* cited by examiner

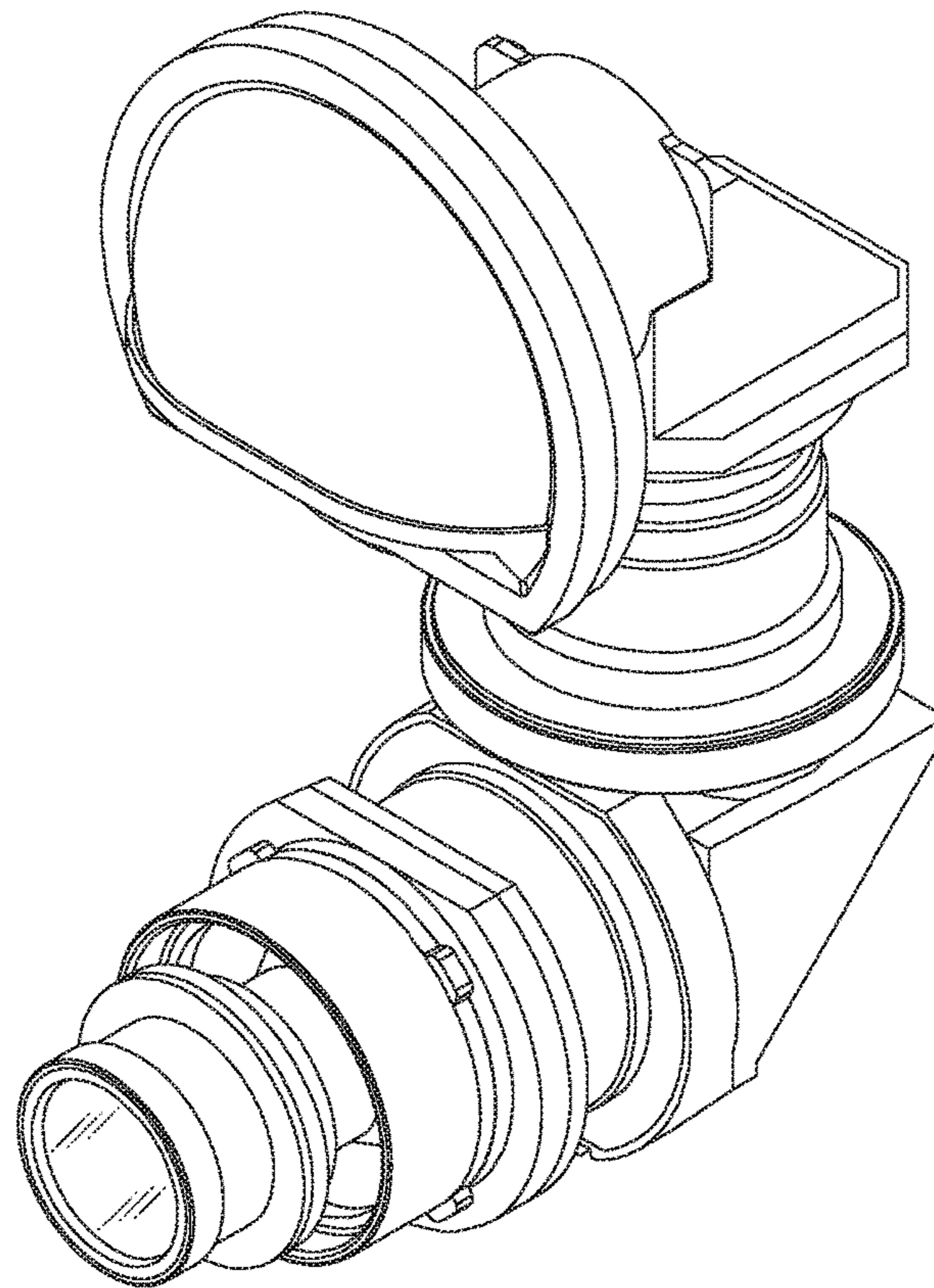


FIG. 1

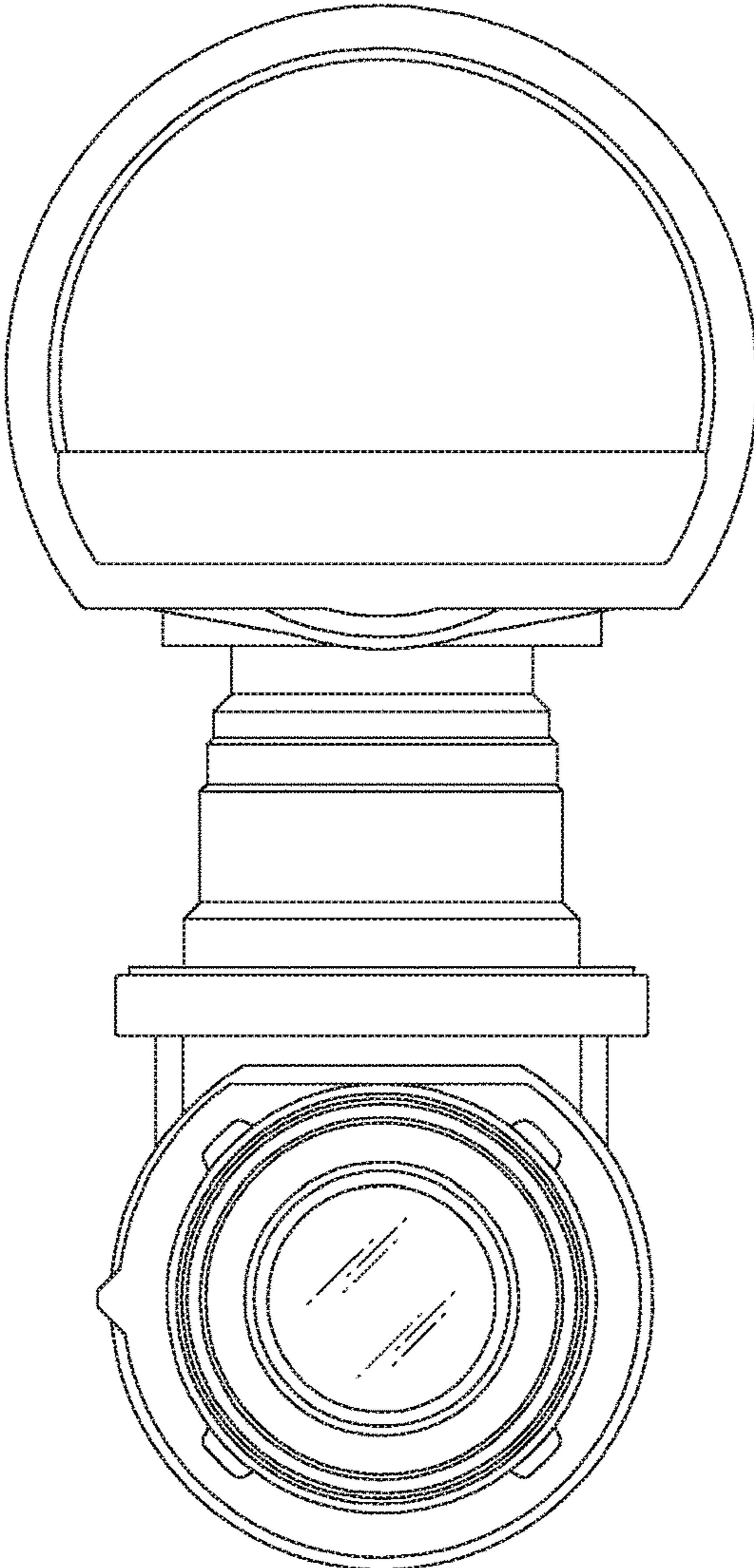


FIG. 2

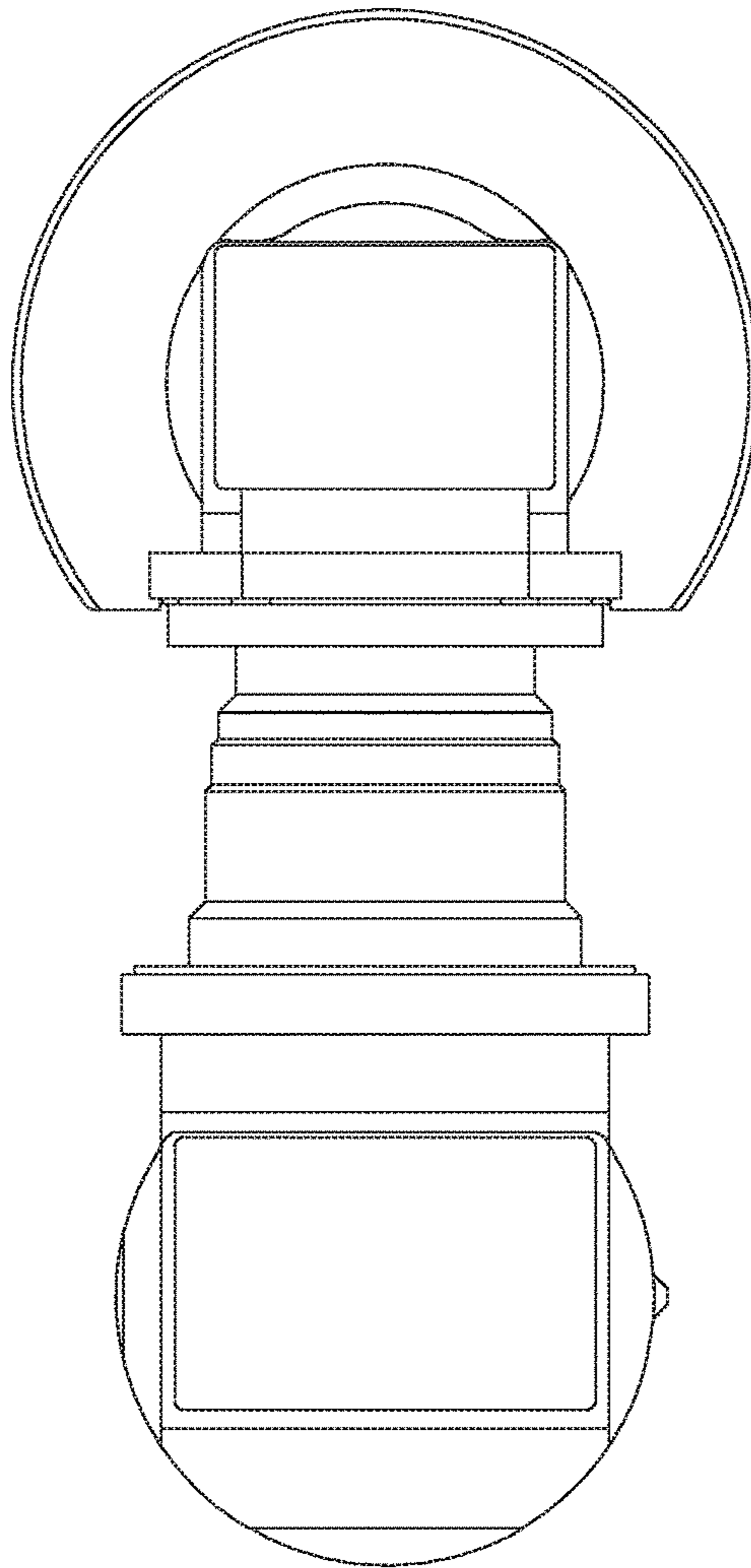


FIG. 3

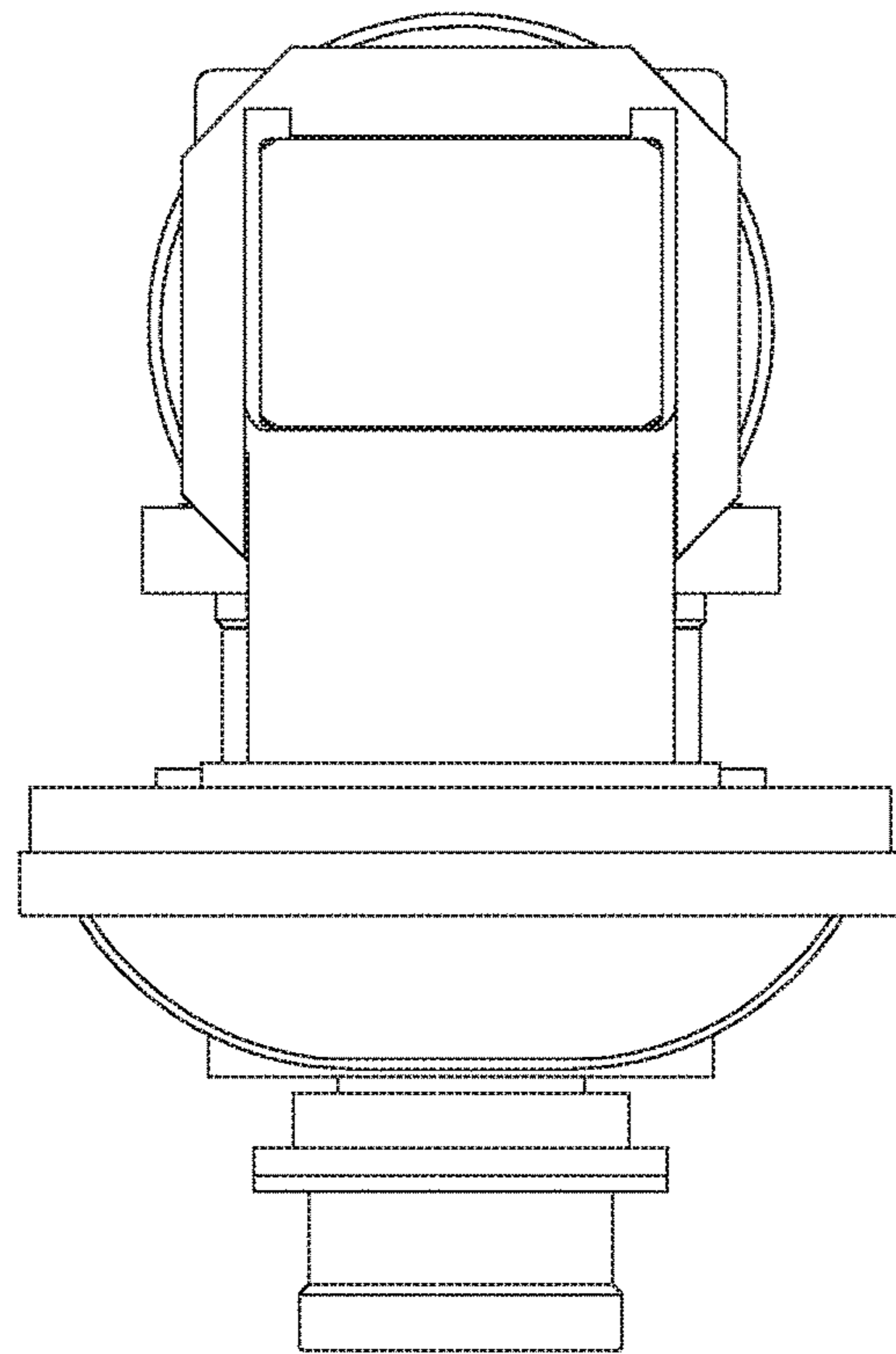


FIG. 4

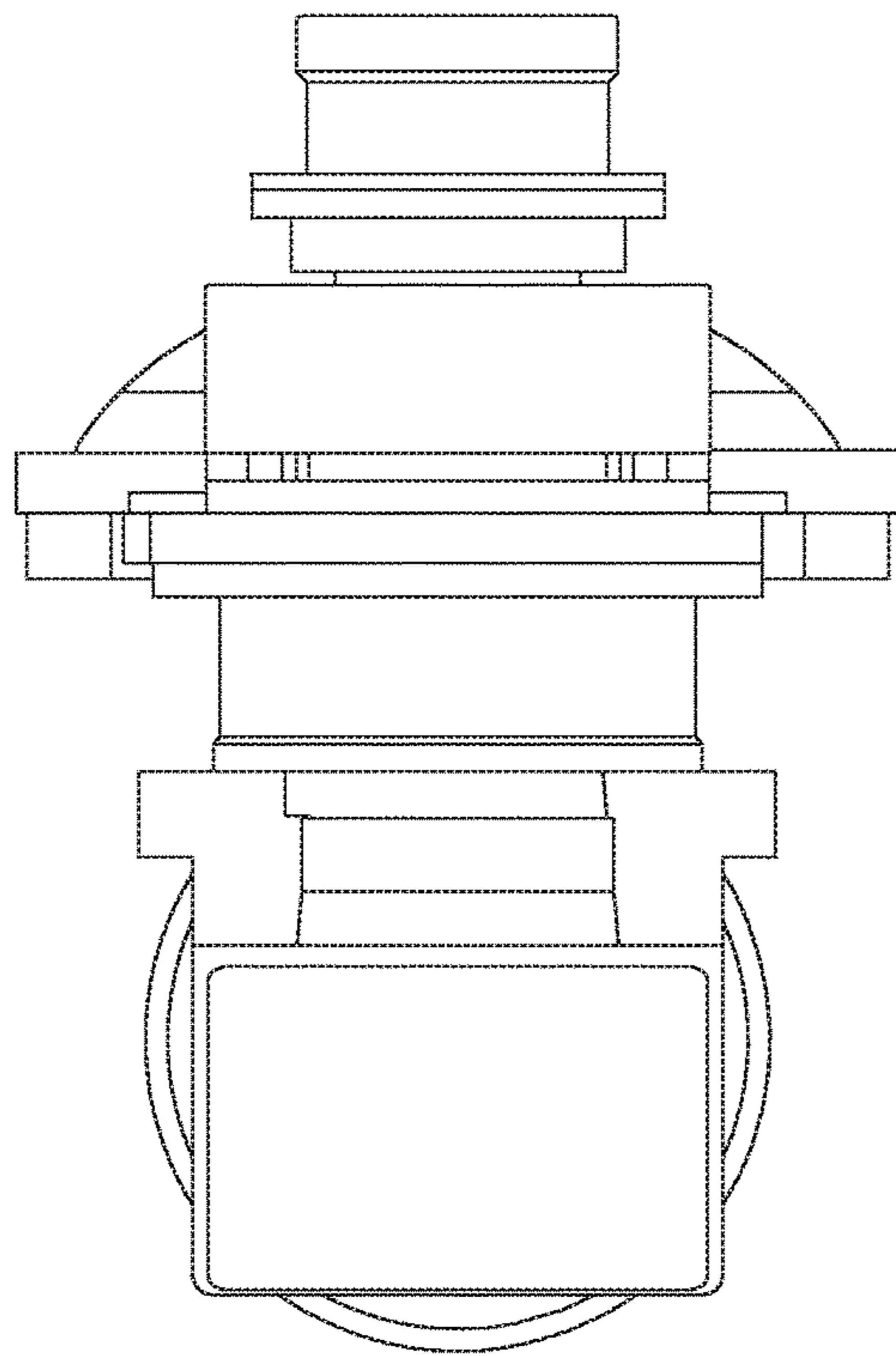


FIG. 5

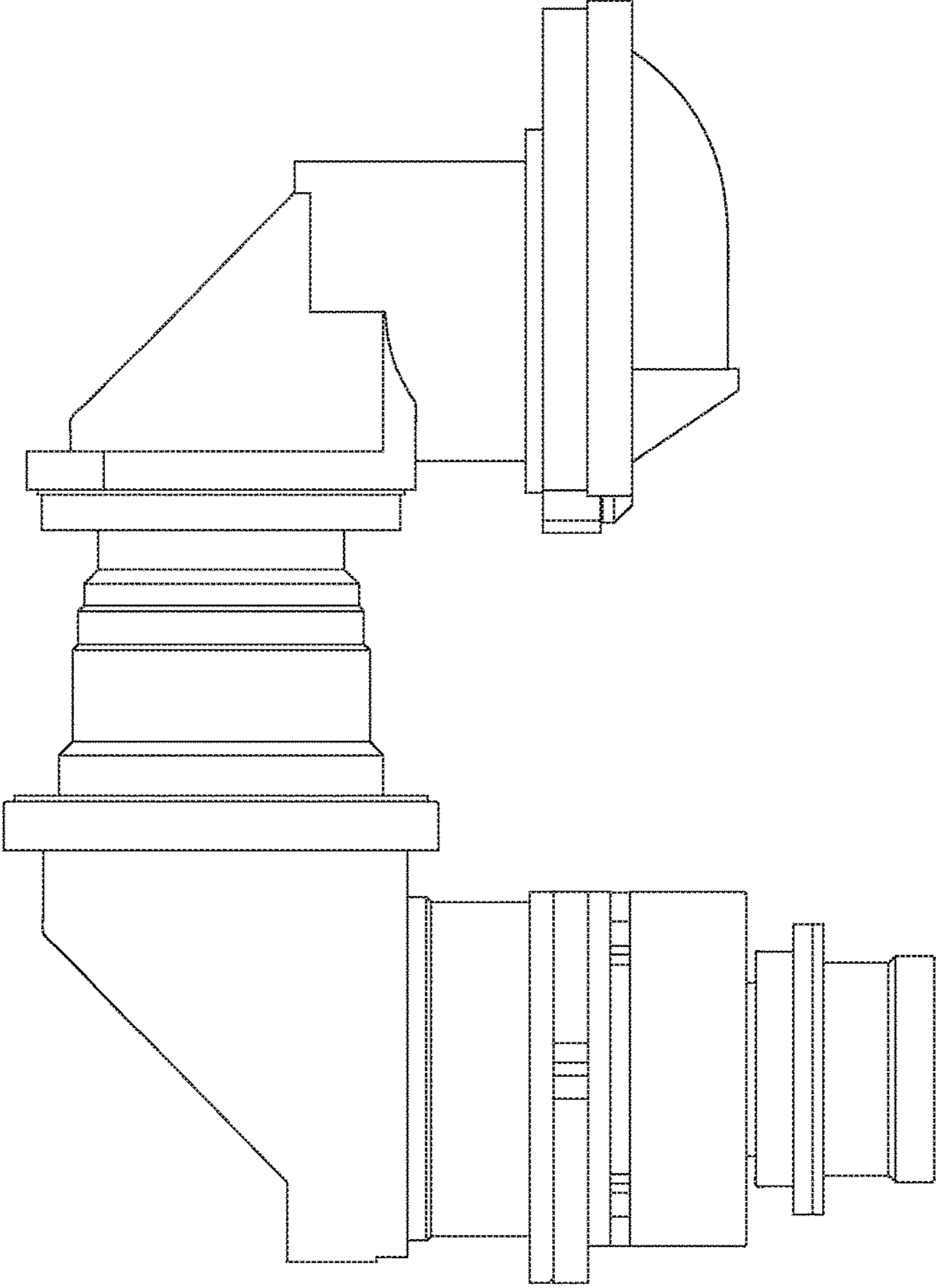


FIG. 6

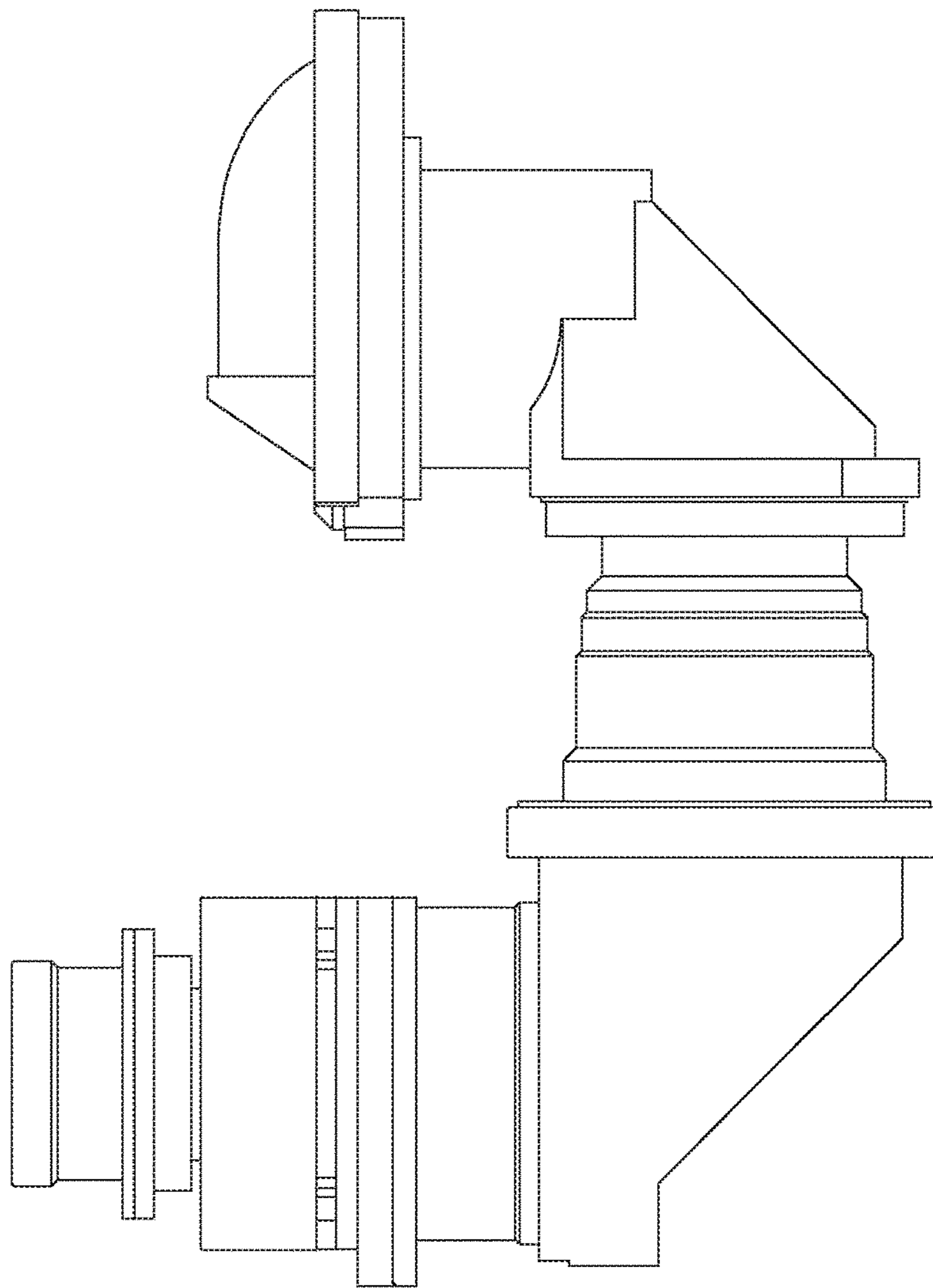


FIG. 7