



US00D890238S

(12) **United States Design Patent** (10) **Patent No.:** **US D890,238 S**  
**Lundbäck et al.** (45) **Date of Patent:** **\*\* Jul. 14, 2020**

(54) **JOINT FOR AN INDUSTRIAL ROBOT**  
(71) Applicant: **ABB Schweiz AG**, Baden (CH)  
(72) Inventors: **Daniel Lundbäck**, Västerås (SE); **Jeroen Derkx**, Enköping (SE); **Johan Ernlund**, Västerås (SE); **Stefan Danielsson**, Västerås (SE); **Mats Olov Olsson**, Västerås (SE)  
(73) Assignee: **ABB Schweiz AG**, Baden (CH)  
(\*\*) Term: **15 Years**  
(21) Appl. No.: **29/661,857**  
(22) Filed: **Aug. 31, 2018**  
(30) **Foreign Application Priority Data**

Mar. 2, 2018 (EM) ..... 004735710-0003

(51) **LOC (12) Cl.** ..... **15-99**  
(52) **U.S. Cl.**  
USPC ..... **D15/199**  
(58) **Field of Classification Search**  
USPC ..... D15/199; D21/578-583, 621, 622  
CPC .... B25J 9/104; B25J 17/0275; B25J 17/0283;  
Y10T 74/19; Y10T 74/20305; Y10T  
74/20329; Y10T 74/20323; Y10T  
74/20311; Y10T 74/20317; Y10T  
403/32041  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D351,849 S \* 10/1994 Cheung ..... D15/199  
6,084,373 A \* 7/2000 Goldenberg ..... B25J 9/08  
318/568.11  
6,550,346 B2 \* 4/2003 Gombert ..... G01L 5/166  
250/208.6  
D677,294 S \* 3/2013 Long ..... D15/199

8,525,460 B2 \* 9/2013 Reiland ..... B25J 9/1641  
267/277  
D740,371 S \* 10/2015 Ries ..... D21/333  
9,375,841 B1 \* 6/2016 Kemper ..... B25J 13/085  
D782,553 S \* 3/2017 Goto ..... D15/199  
9,845,850 B2 \* 12/2017 Claffee ..... F16H 25/20  
10,578,197 B2 \* 3/2020 Claffee ..... F16H 25/20  
2002/0166403 A1 \* 11/2002 Choset ..... B25J 9/102  
74/490.01  
2011/0048650 A1 \* 3/2011 Lawson ..... B25J 15/0028  
157/16  
2011/0064554 A1 \* 3/2011 Ito ..... B25J 9/047  
414/735  
2011/0107611 A1 \* 5/2011 Desforges ..... G01B 7/008  
33/502  
2011/0265597 A1 \* 11/2011 Long ..... B25J 9/102  
74/490.05  
2011/0290060 A1 \* 12/2011 Long ..... B25J 9/103  
74/490.01  
2012/0085191 A1 \* 4/2012 Long ..... B25J 9/102  
74/423

(Continued)

*Primary Examiner* — Patricia A Palasik  
(74) *Attorney, Agent, or Firm* — Whitmyer IP Group LLC

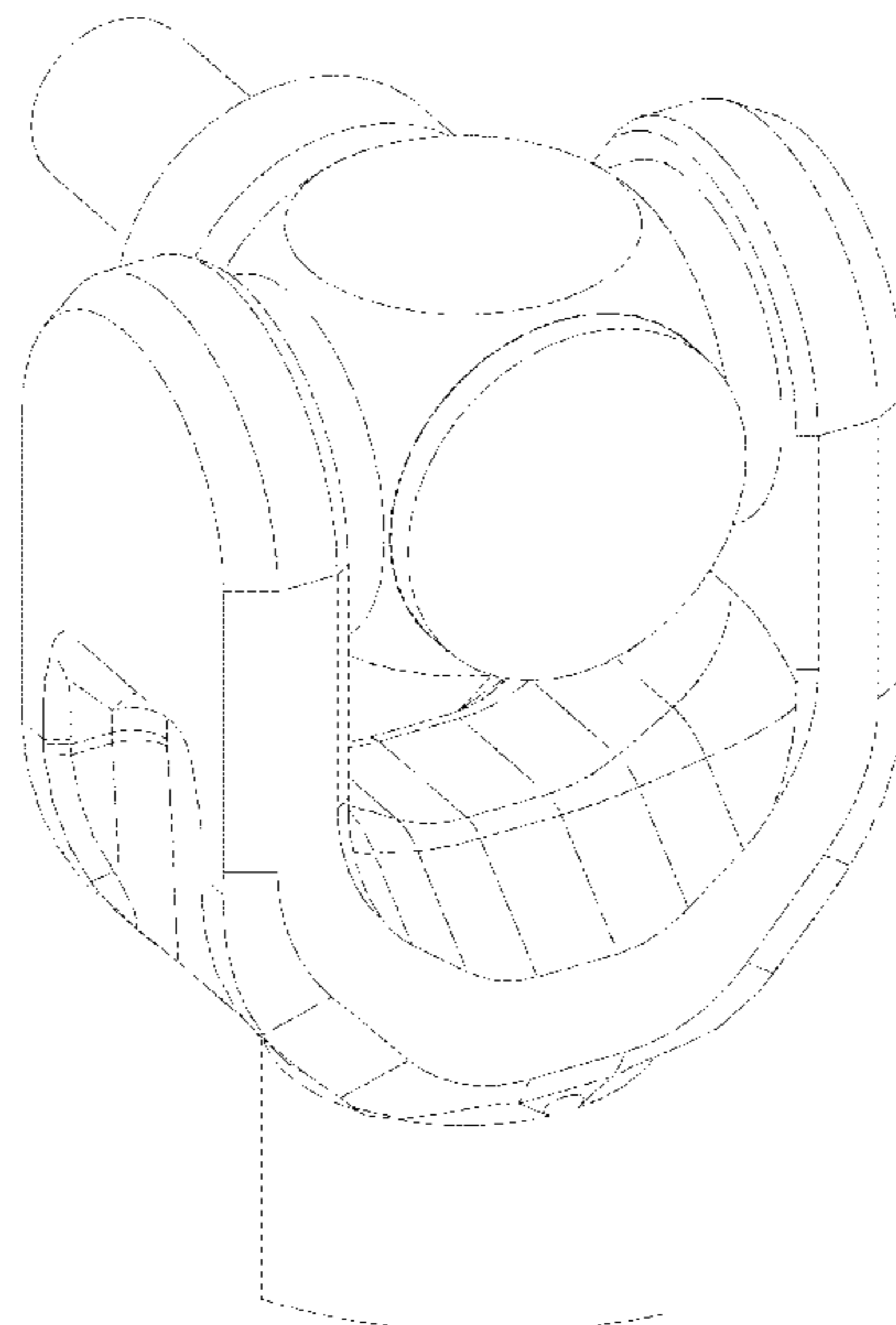
(57) **CLAIM**

The ornamental design for a joint for an industrial robot, as shown and described.

**DESCRIPTION**

FIG. 1 is a front isometric view of a joint for an industrial robot in accordance with the new design;  
FIG. 2 is a front side elevational view thereof;  
FIG. 3 is a rear side elevational view thereof;  
FIG. 4 is a left side elevational view thereof;  
FIG. 5 is a right side elevational view thereof; and,  
FIG. 6 is a top plan view thereof.  
The broken lines in the drawings depict portions of the joint for an industrial robot which form no part of the claimed design.

**1 Claim, 6 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2013/0047771 A1\* 2/2013 Liu ..... B25J 19/0029  
74/490.02  
2013/0081502 A1\* 4/2013 Long ..... B25J 9/102  
74/490.04  
2013/0118286 A1\* 5/2013 Long ..... B25J 17/0283  
74/490.01  
2013/0125694 A1\* 5/2013 Long ..... B25J 11/0075  
74/490.01  
2013/0125696 A1\* 5/2013 Long ..... B25J 18/04  
74/490.05  
2013/0145891 A1\* 6/2013 Long ..... B25J 18/00  
74/490.02  
2014/0224057 A1\* 8/2014 Tanaka ..... B25J 9/102  
74/490.05  
2014/0366673 A1\* 12/2014 Yamazaki ..... B25J 9/0087  
74/490.03  
2015/0114162 A1\* 4/2015 Kirihara ..... B25J 19/0029  
74/490.02  
2016/0263749 A1\* 9/2016 Ogata ..... B25J 9/126

\* cited by examiner

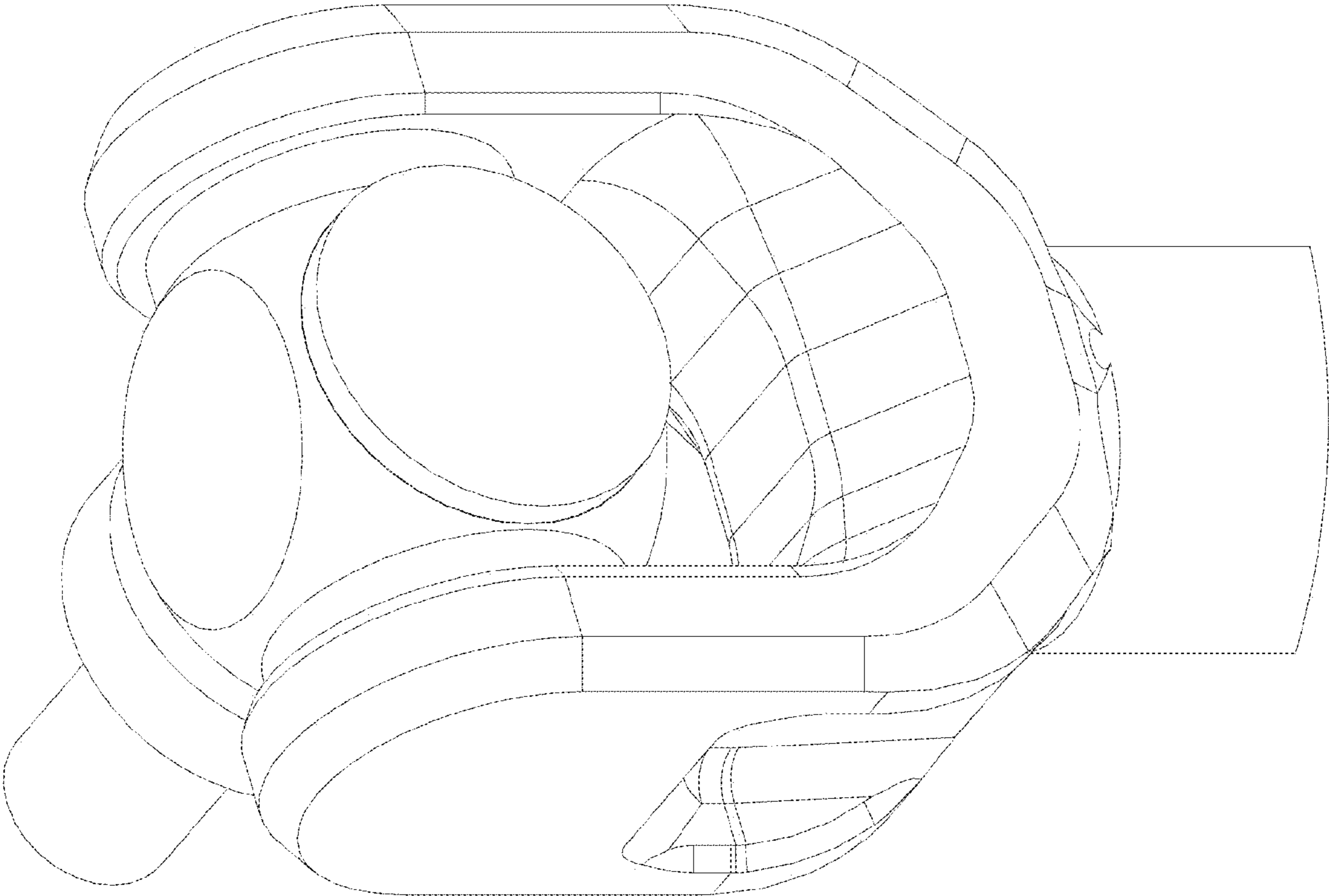


Fig. 1

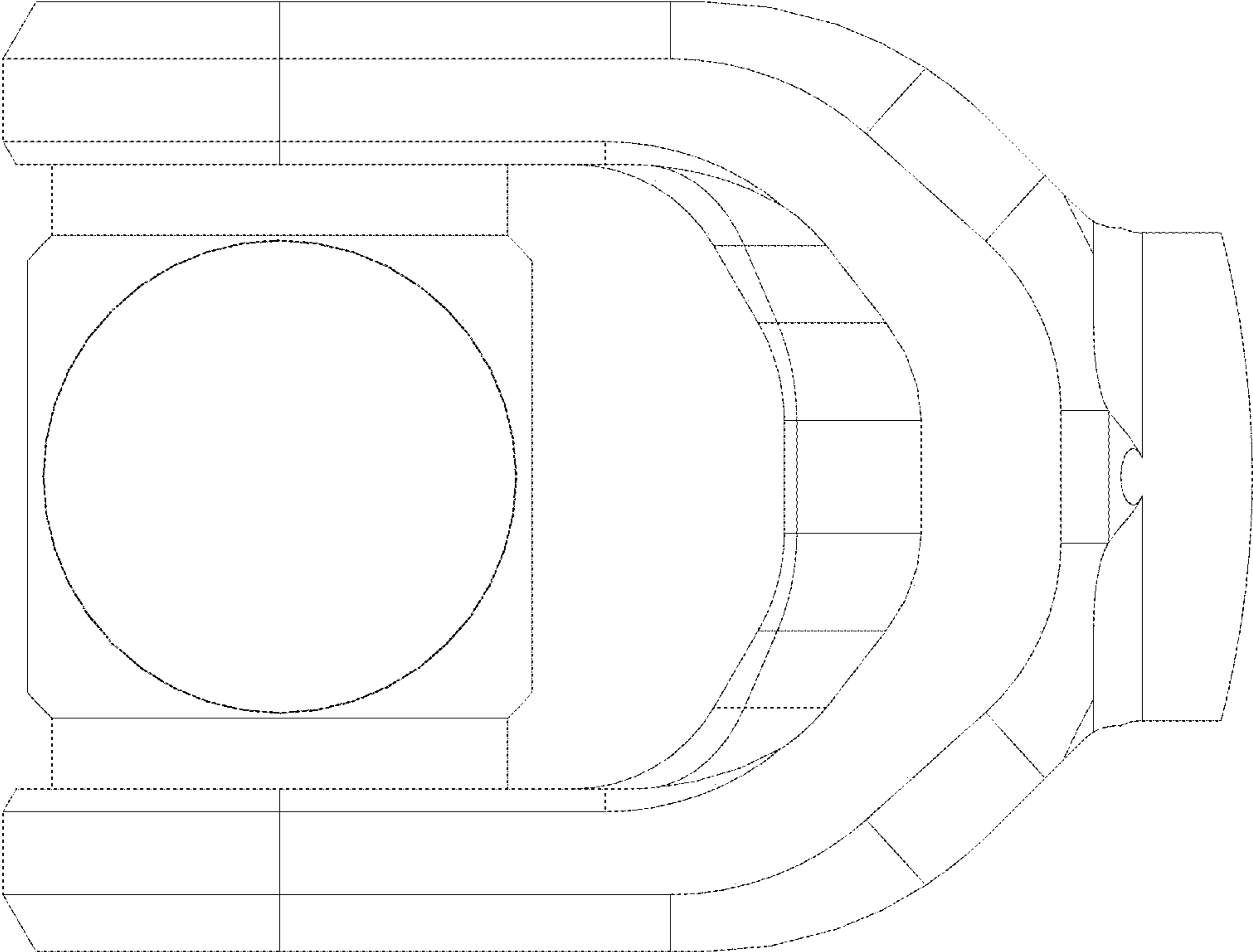


Fig. 2

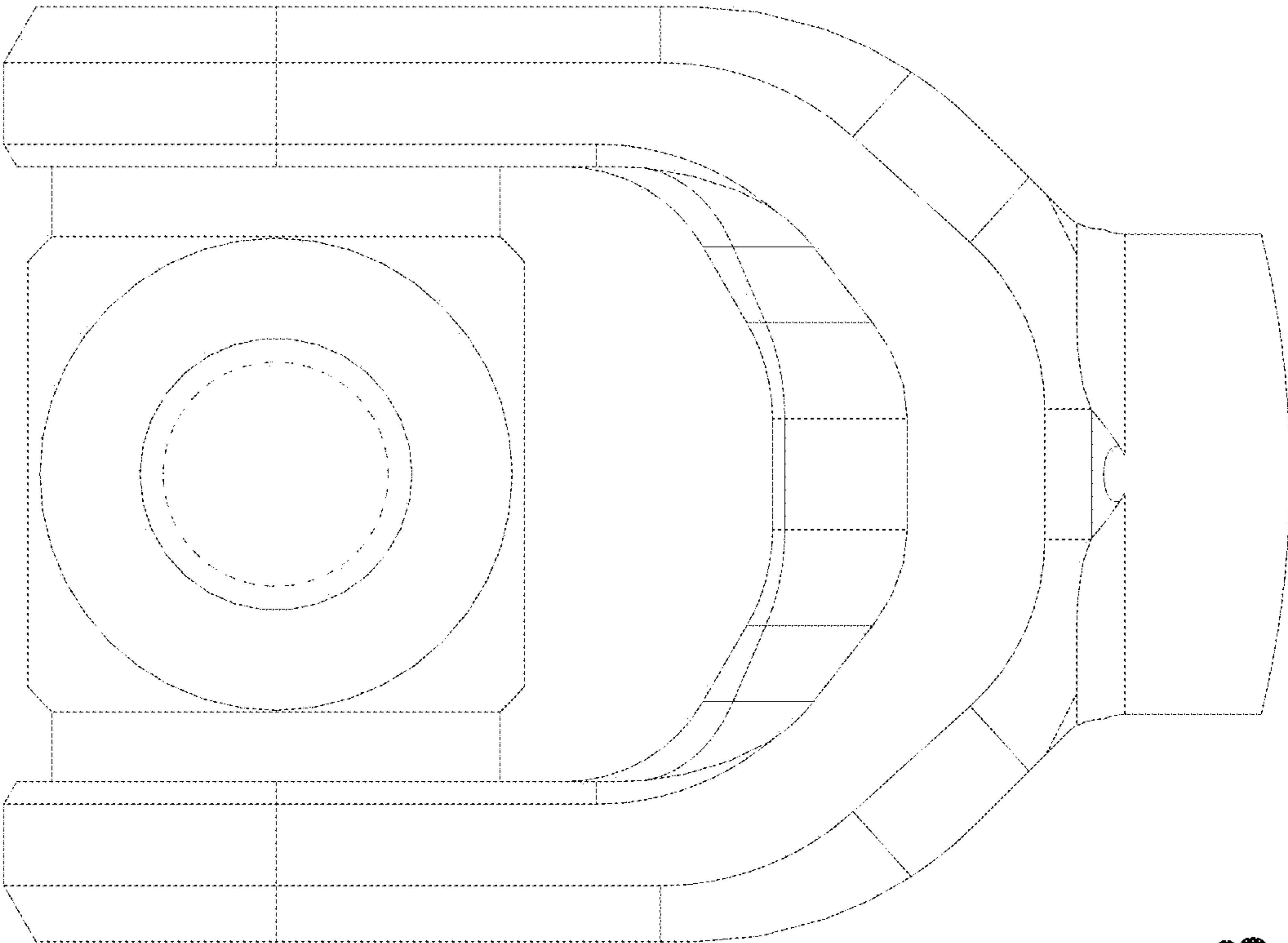


Fig. 3

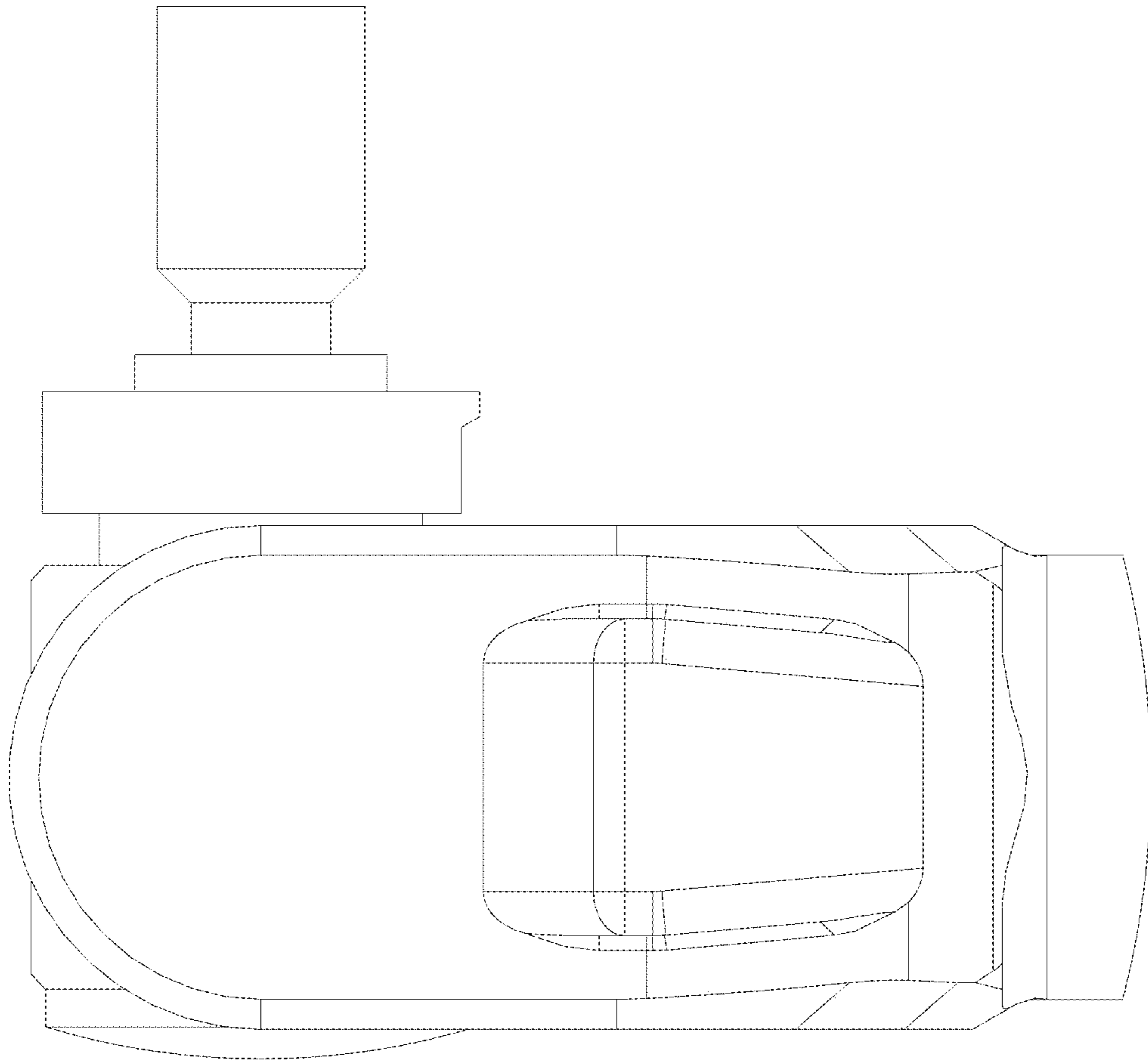


Fig. 4

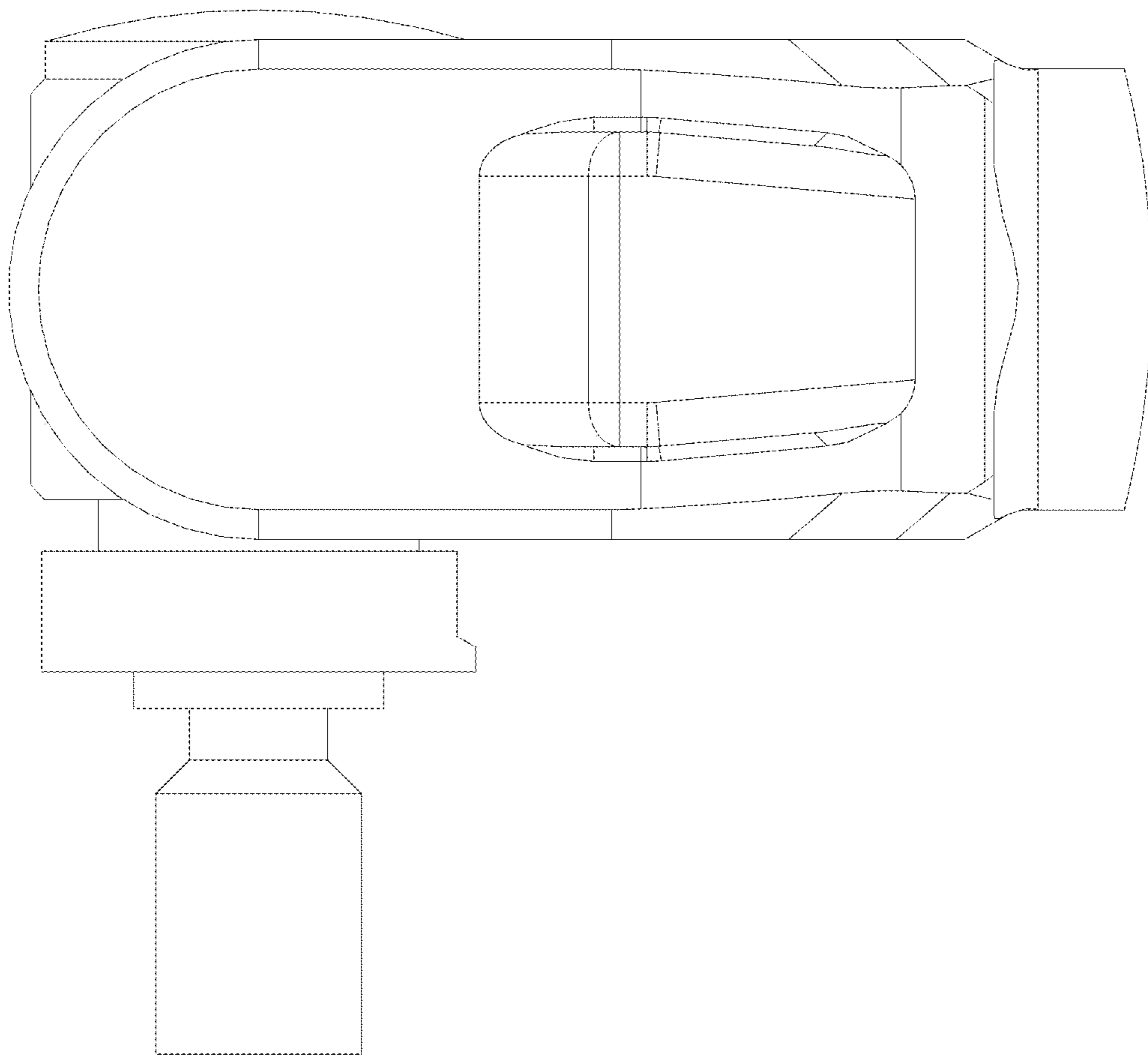


Fig. 5

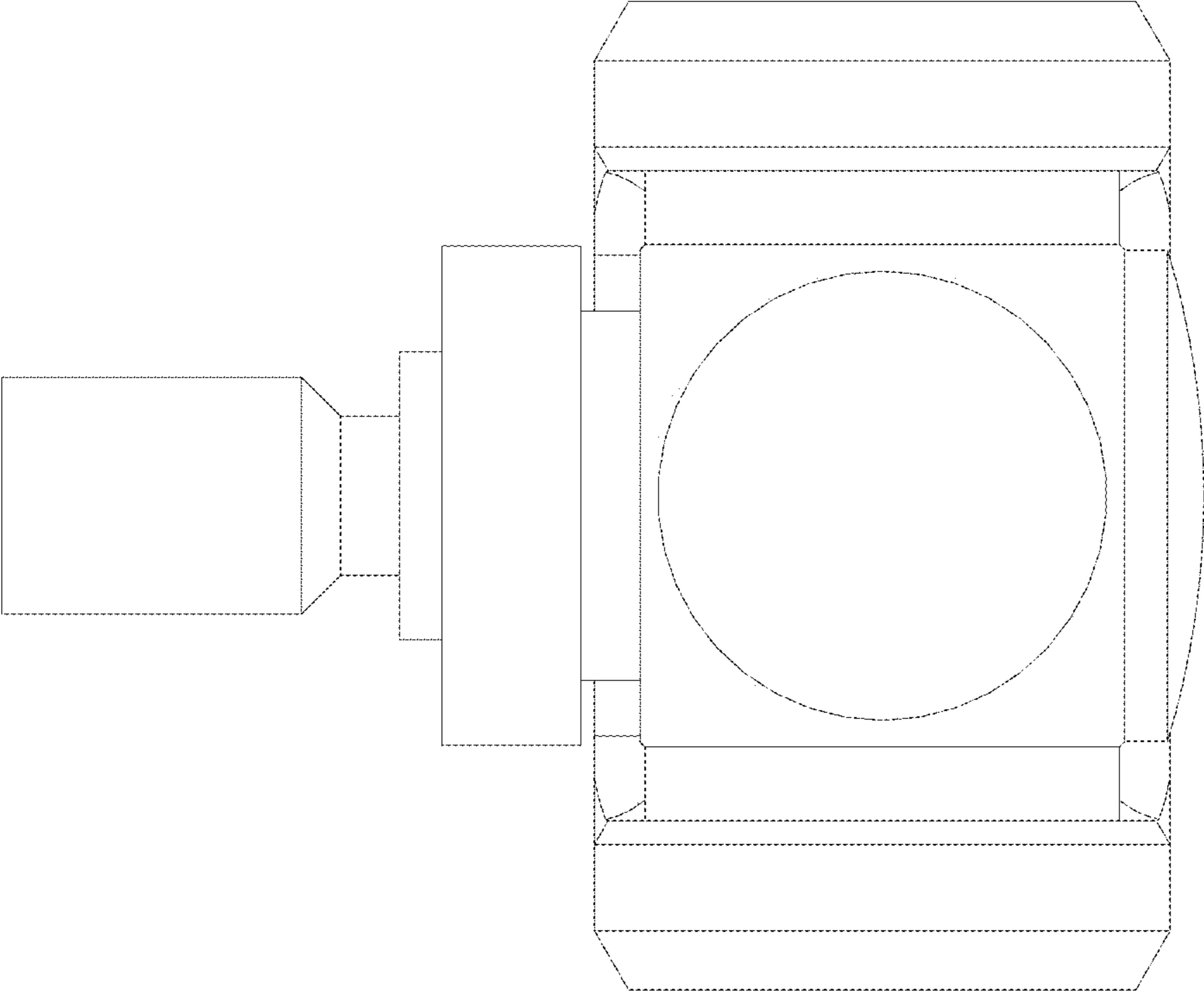


Fig. 6