



US00D619632S

(12) **United States Design Patent**  
**Feng**

(10) **Patent No.:** **US D619,632 S**

(45) **Date of Patent:** **\*\* Jul. 13, 2010**

(54) **MANIPULATOR**

2010/0037720 A1\* 2/2010 Rosheim ..... 74/490.03  
2010/0043577 A1\* 2/2010 Rosheim ..... 74/5.4

(75) Inventor: **Yong Feng**, Shenzhen (CN)

\* cited by examiner

(73) Assignee: **Hon Hai Precision Industry Co., Ltd.**,  
Tu-Cheng, Taipei Hsien (TW)

*Primary Examiner*—Sandra Snapp  
*Assistant Examiner*—Patricia Palasik

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

(74) *Attorney, Agent, or Firm*—Clifford O. Chi

(21) Appl. No.: **29/350,622**

(57) **CLAIM**

(22) Filed: **Nov. 20, 2009**

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

(30) **Foreign Application Priority Data**

**DESCRIPTION**

Sep. 15, 2009 (CN) ..... 2009 3 0316101

(51) **LOC (9) Cl.** ..... **15-99**

(52) **U.S. Cl.** ..... **D15/199**

(58) **Field of Classification Search** ..... D15/199;  
D21/578; 74/490.01, 490.03, 490.05; 414/735;  
700/245; 901/28

See application file for complete search history.

FIG. 1 is a perspective view of a first operative position of a manipulator showing my design;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a rear elevational view thereof;

FIG. 4 is a left side elevational view thereof;

FIG. 5 is a right side elevational view thereof;

FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof;

FIG. 8 is a second operative position of the manipulator in a front elevational view thereof; and,

FIG. 9 is a third operative position of the manipulator in a front elevational view thereof.

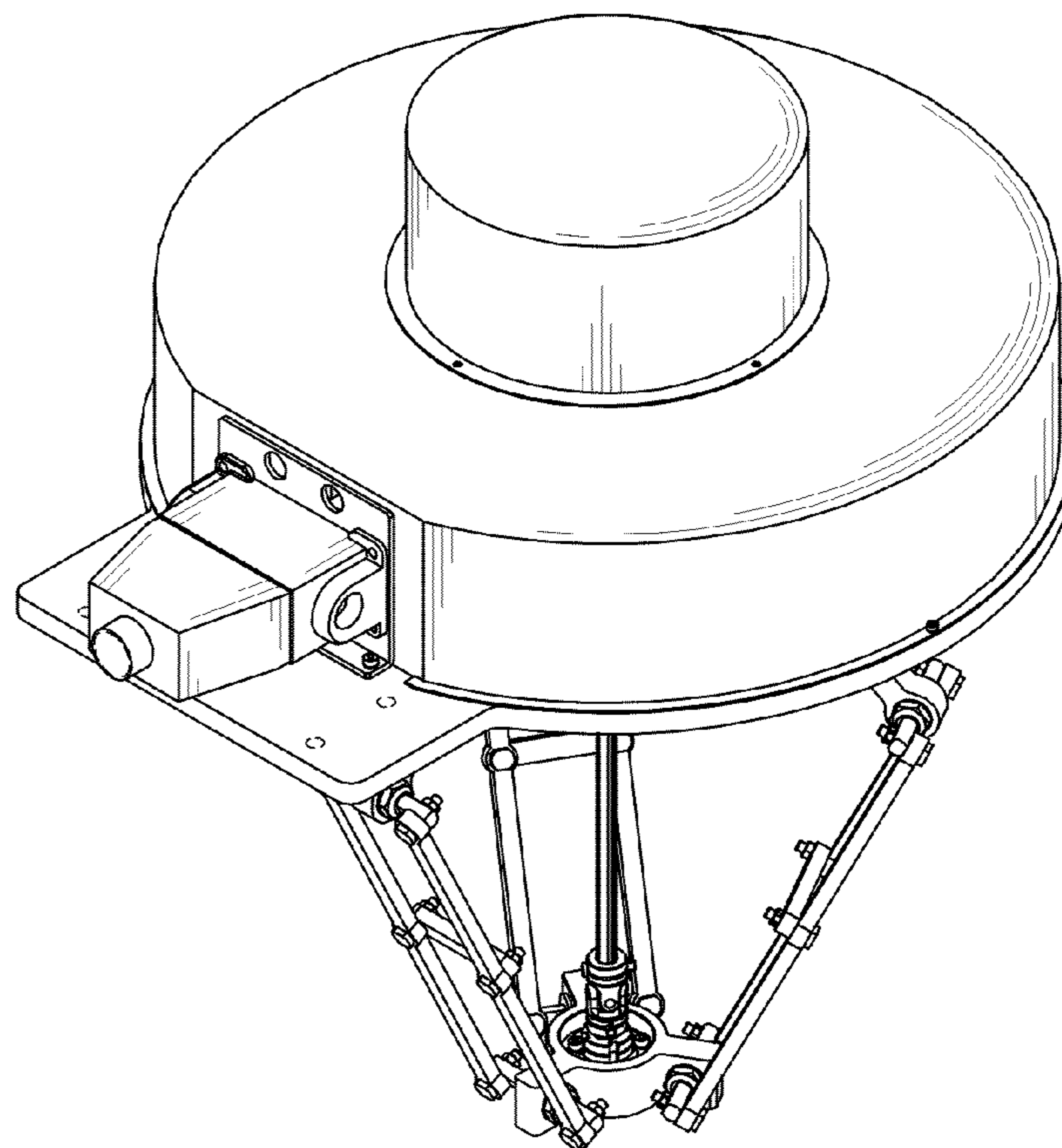
The broken lines are for illustrative purposes only and form no part of the claimed design.

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**1 Claim, 9 Drawing Sheets**



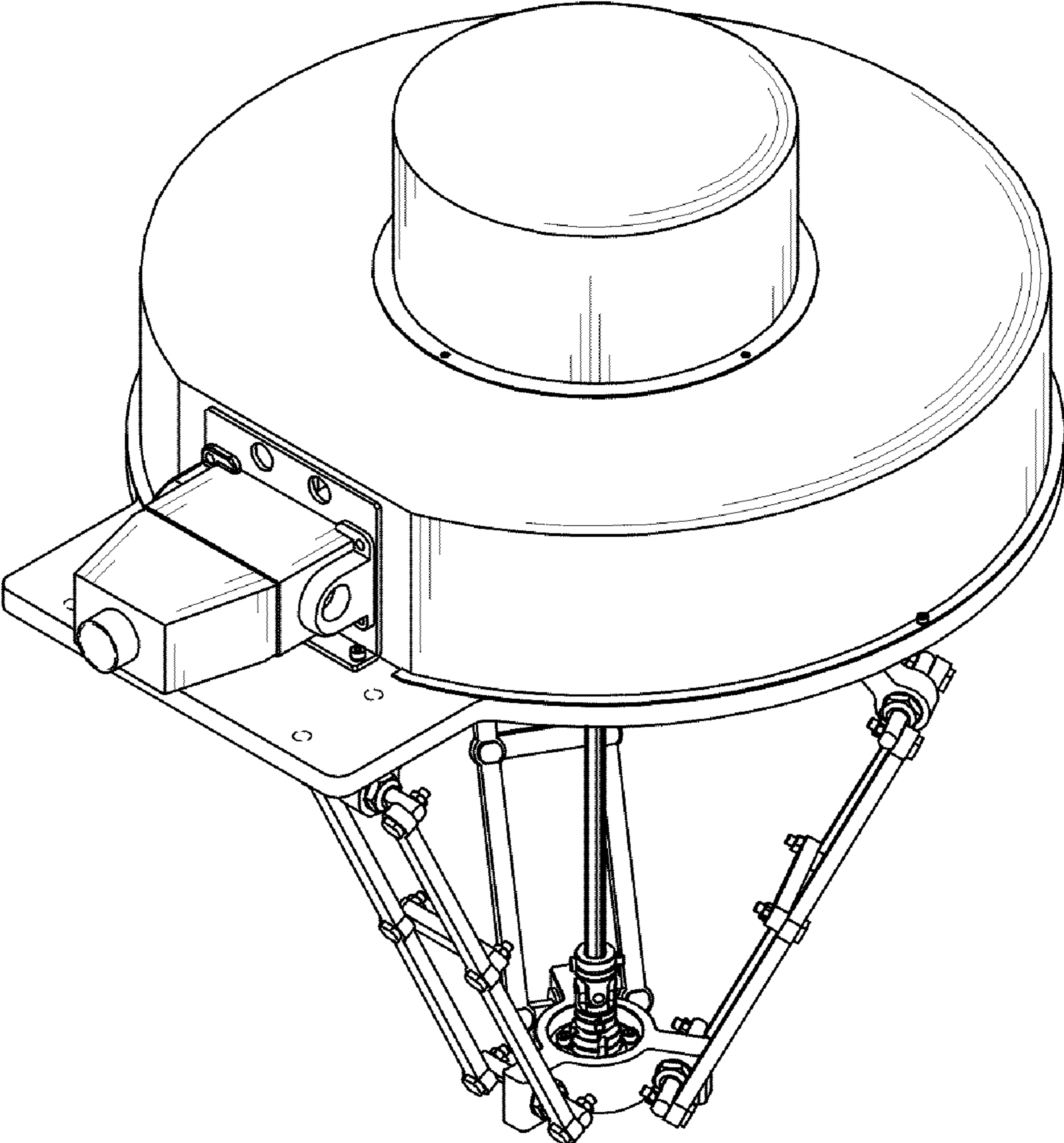


FIG. 1

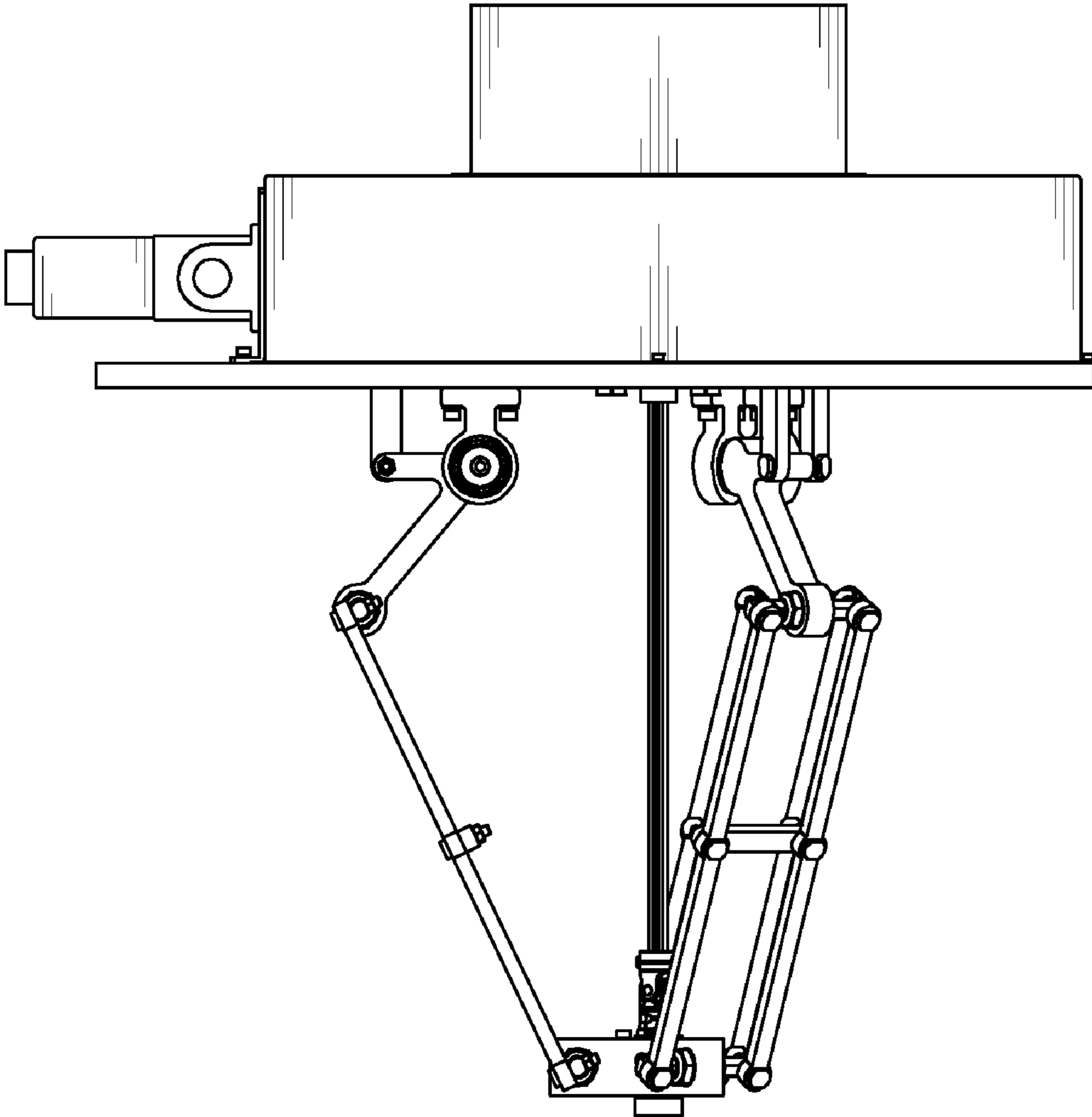


FIG. 2

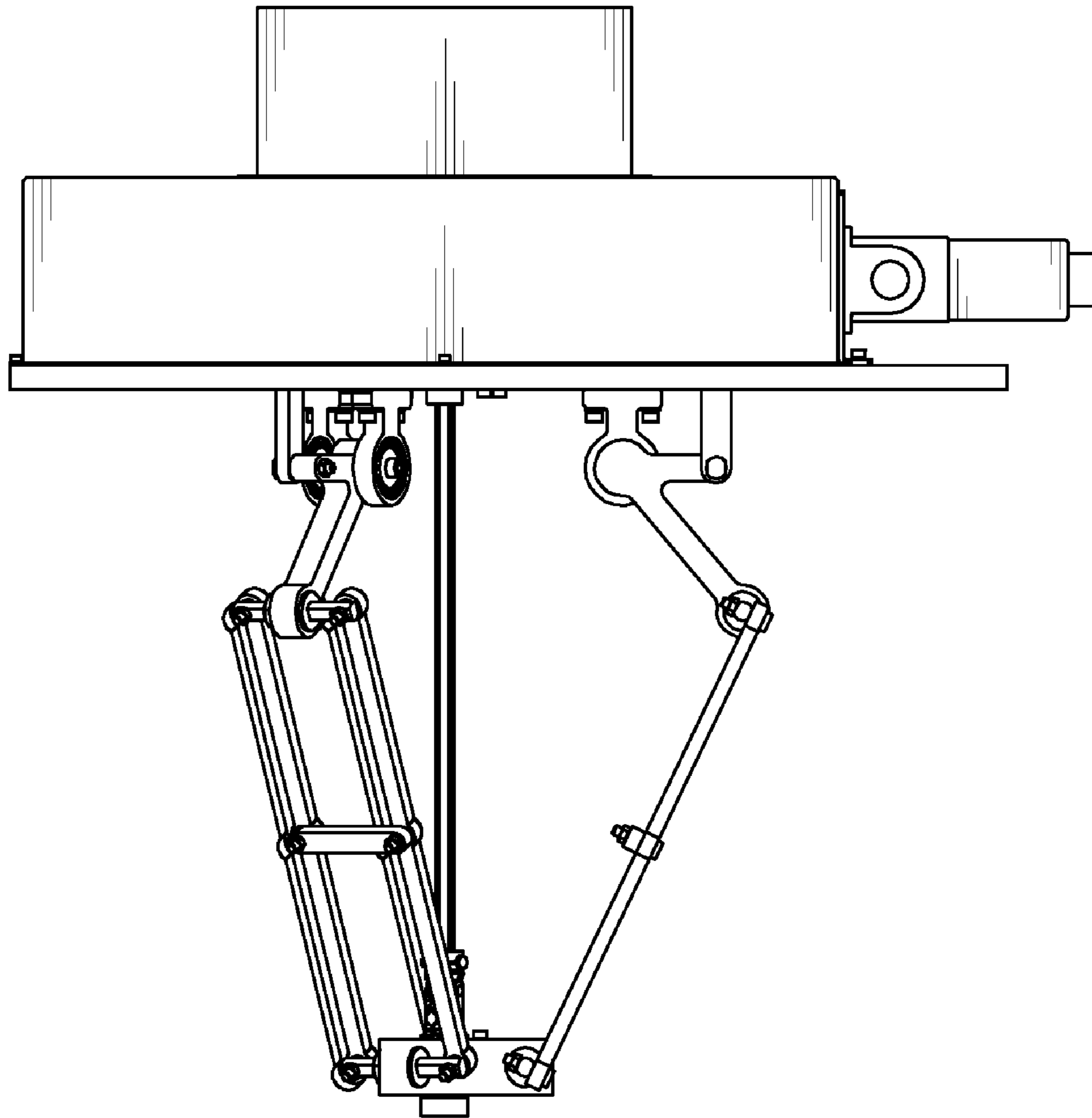


FIG. 3

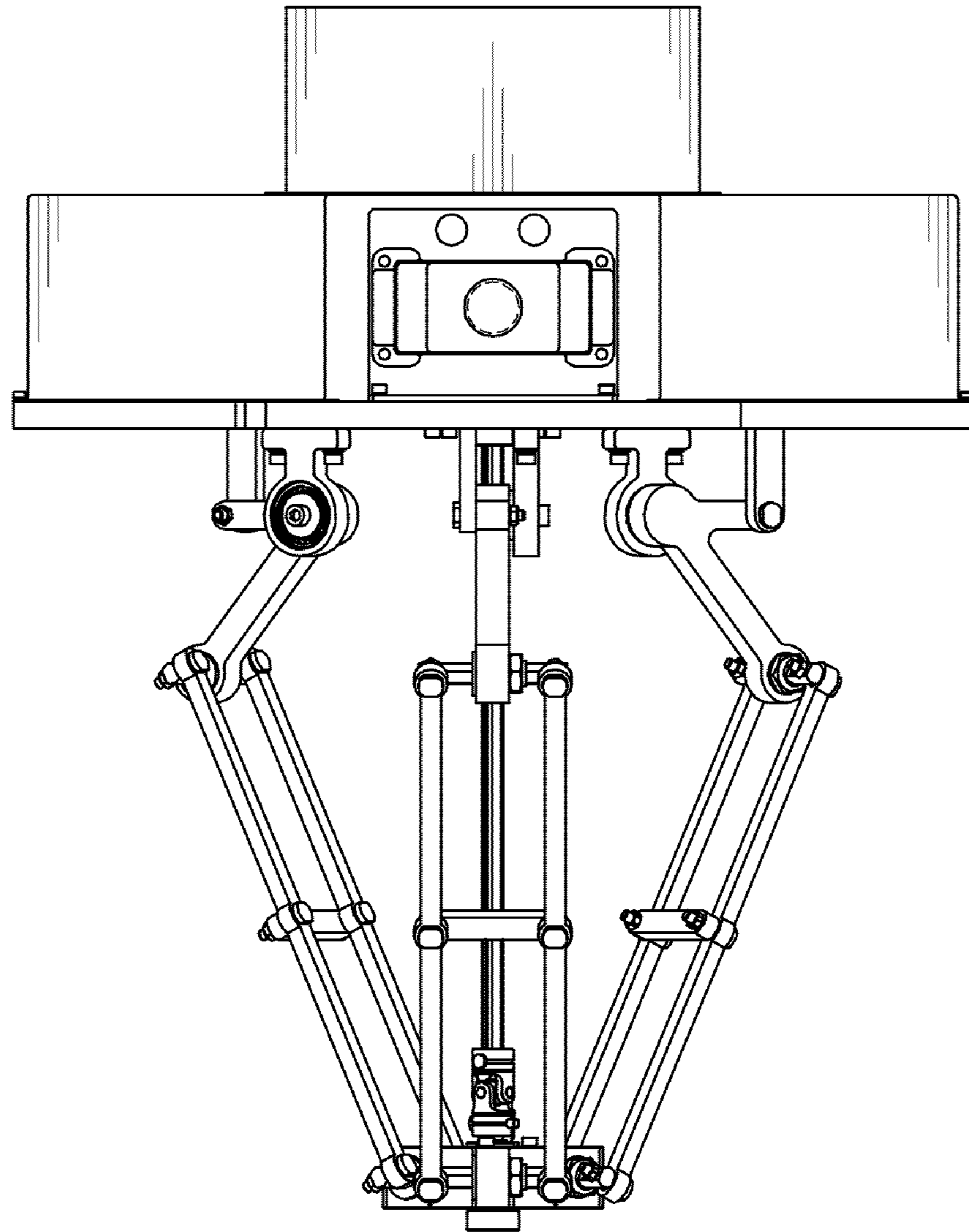


FIG. 4

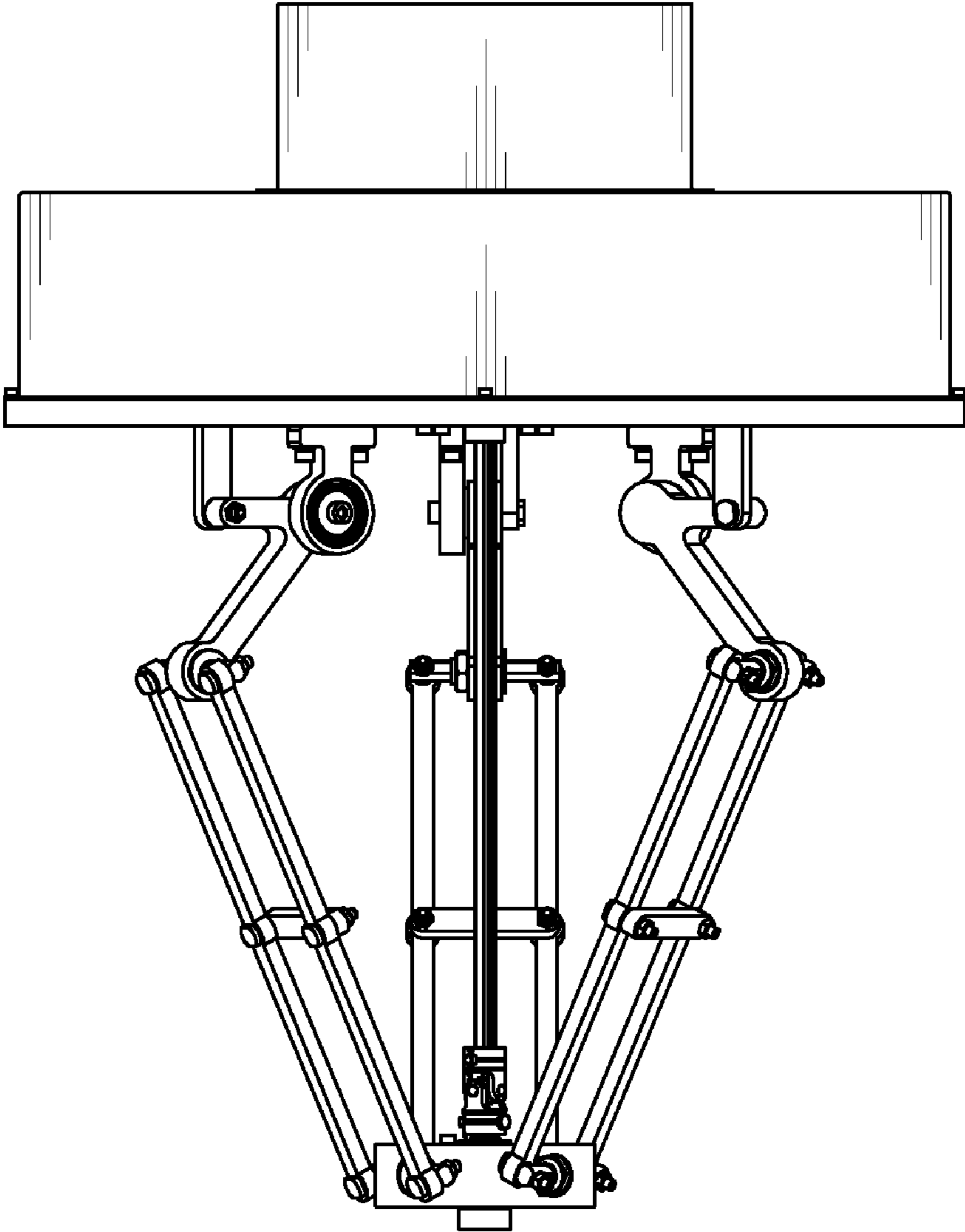


FIG. 5

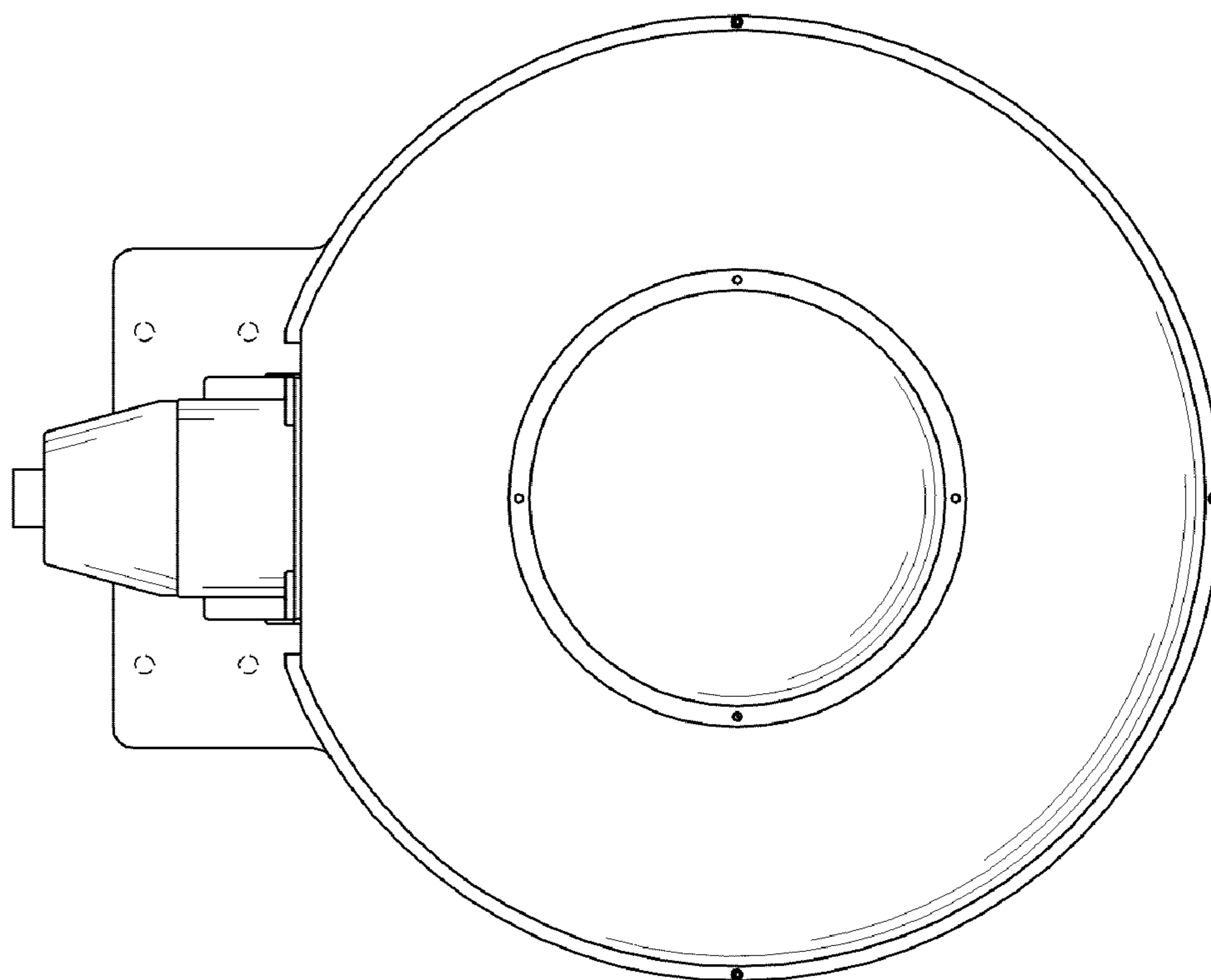


FIG. 6

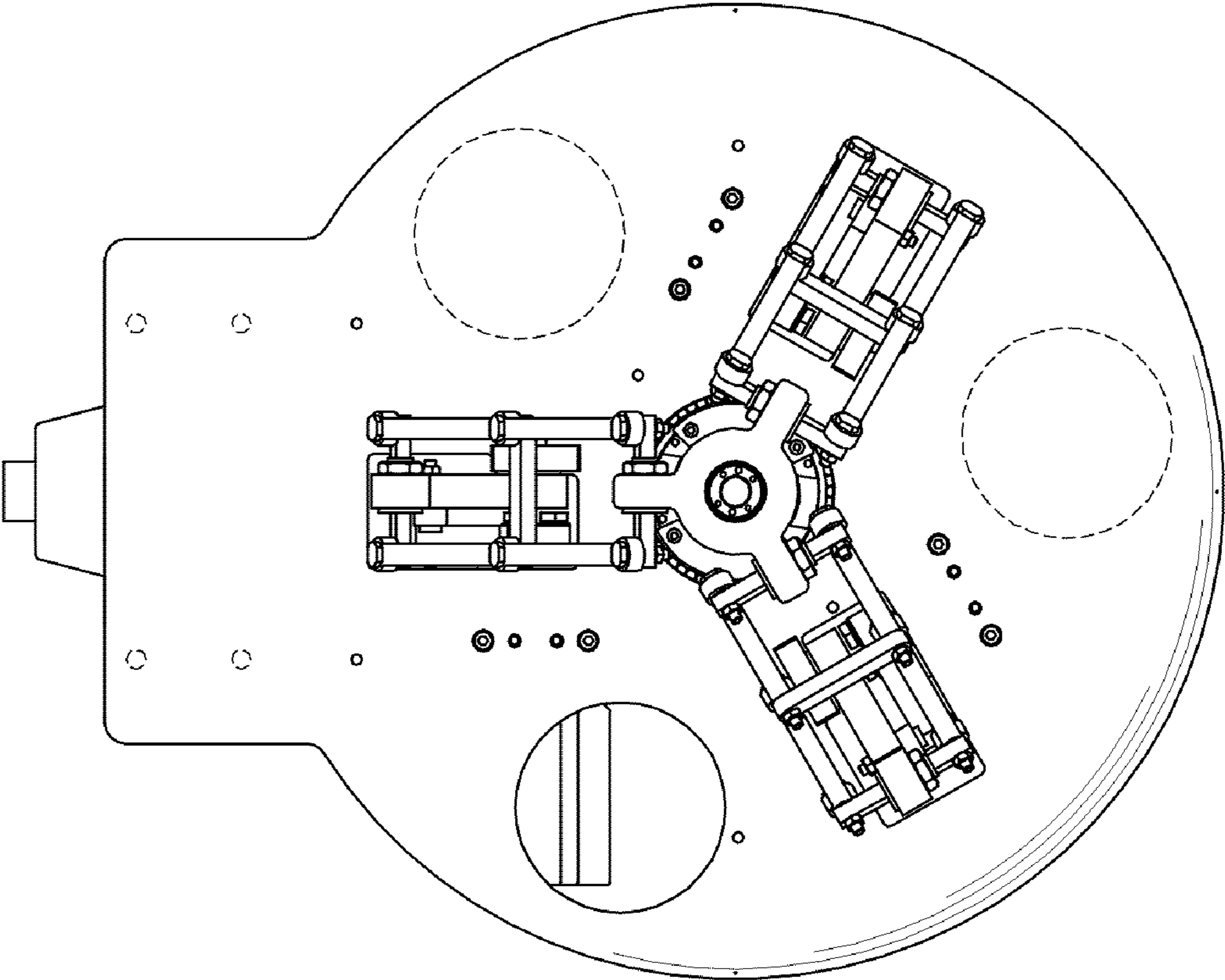


FIG. 7



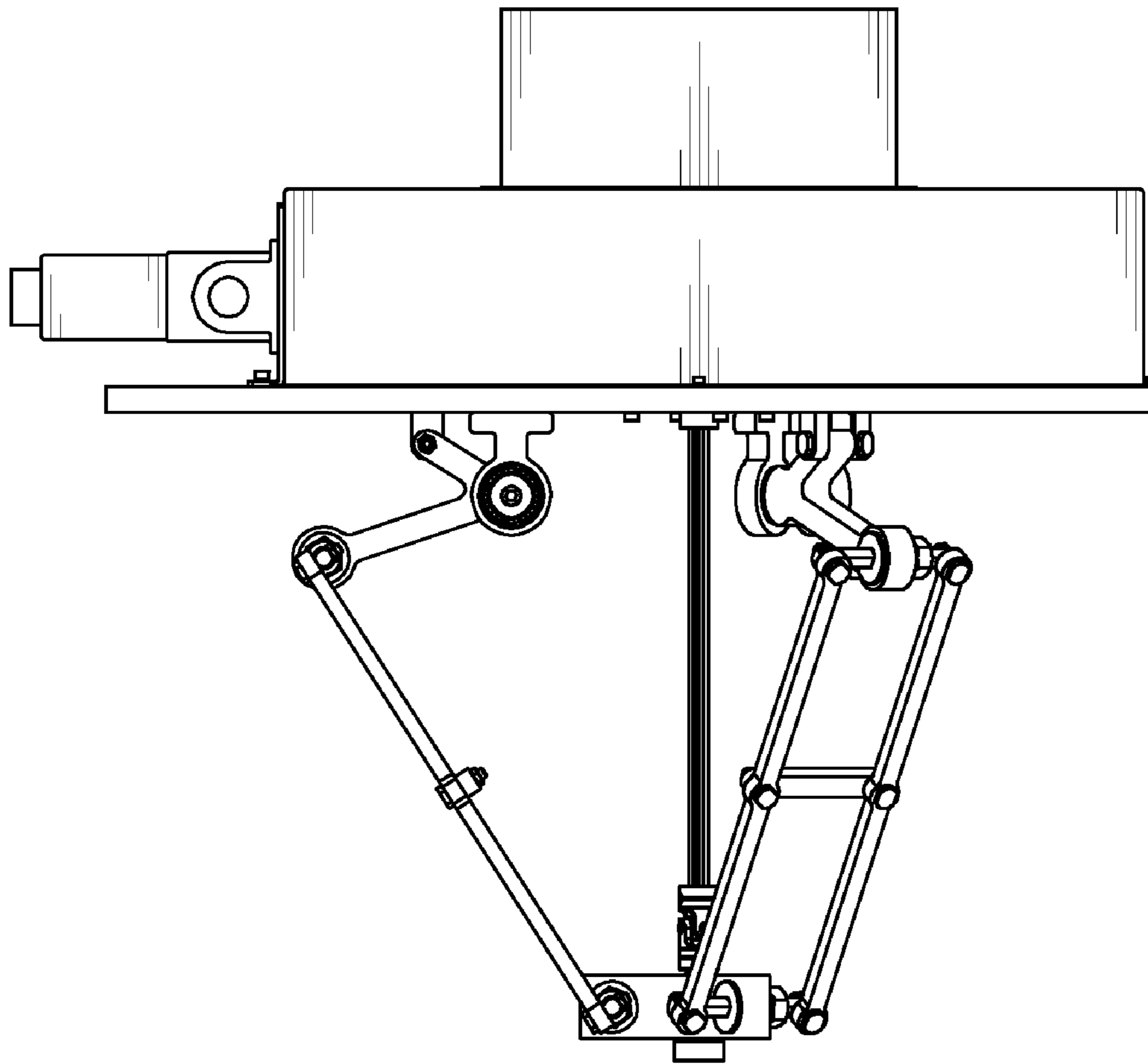


FIG. 8

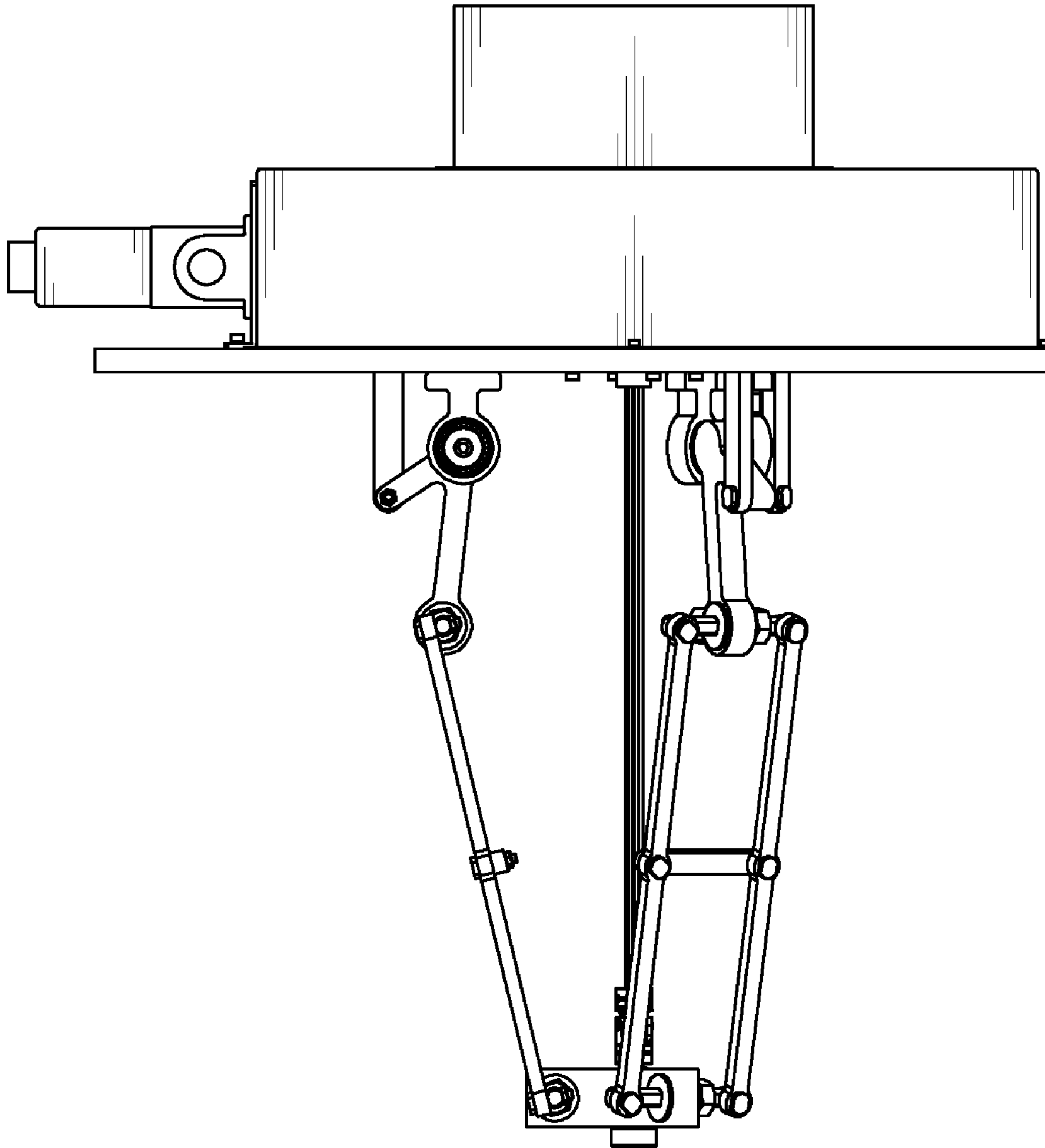


FIG. 9