



US00D847243S

(12) **United States Design Patent** (10) **Patent No.:** **US D847,243 S**
Kawaguchi et al. (45) **Date of Patent:** **** Apr. 30, 2019**

(54) **MANIPULATOR FOR ROBOT**

(74) *Attorney, Agent, or Firm* — Studebaker & Brackett PC

(71) Applicant: **MITSUBISHI ELECTRIC CORPORATION**, Tokyo (JP)

(57) **CLAIM**

(72) Inventors: **Noboru Kawaguchi**, Tokyo (JP); **Hidetaka Yamauchi**, Tokyo (JP); **Tomoya Hattori**, Tokyo (JP); **Koji Hirose**, Tokyo (JP)

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

(73) Assignee: **Mitsubishi Electric Corporation**, Tokyo (JP)

DESCRIPTION

(**) Term: **15 Years**

FIG. 1 is a rear perspective view of the rear, right, and top sides of a manipulator for robot showing a first embodiment of our new design;

(21) Appl. No.: **29/633,255**

FIG. 2 is a front perspective view of the front, right, and bottom sides thereof;

(22) Filed: **Jan. 12, 2018**

FIG. 3 is a front view thereof;

(30) **Foreign Application Priority Data**

Jul. 18, 2017 (JP) 2017-015410

Jul. 18, 2017 (JP) 2017-015412

FIG. 4 is a rear view thereof;

(51) **LOC (11) Cl.** **15-99**

FIG. 5 is a left side view thereof;

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

FIG. 6 is a right side view thereof;

(58) **Field of Classification Search**
USPC D15/199; D21/369, 578–583, 621, 622
CPC B25J 15/10; B25J 15/086; B25J 15/0009;
Y10S 901/38; Y10S 901/39
See application file for complete search history.

FIG. 7 is a top plan view thereof;

FIG. 8 is a bottom plan view thereof;

FIG. 9 is a front side view showing a state where a hinge angle is changed;

FIG. 10 is a right side view showing a state where a hinge angle is changed;

FIG. 11 is a front perspective view of the front, right, and bottom sides of a manipulator for robot showing a second embodiment of our new design;

FIG. 12 is a rear perspective view of the rear, right, and top sides thereof;

FIG. 13 is a front view thereof;

FIG. 14 is a rear view thereof;

FIG. 15 is a left side view thereof;

FIG. 16 is a right side view thereof;

FIG. 17 is a top plan view thereof;

FIG. 18 is a bottom plan view thereof; and,

FIG. 19 is a front side view showing a state where a hinge angle is changed.

The broken lines shown represent unclaimed subject matter of the manipulator for robot or environments and form no part of the claimed design.

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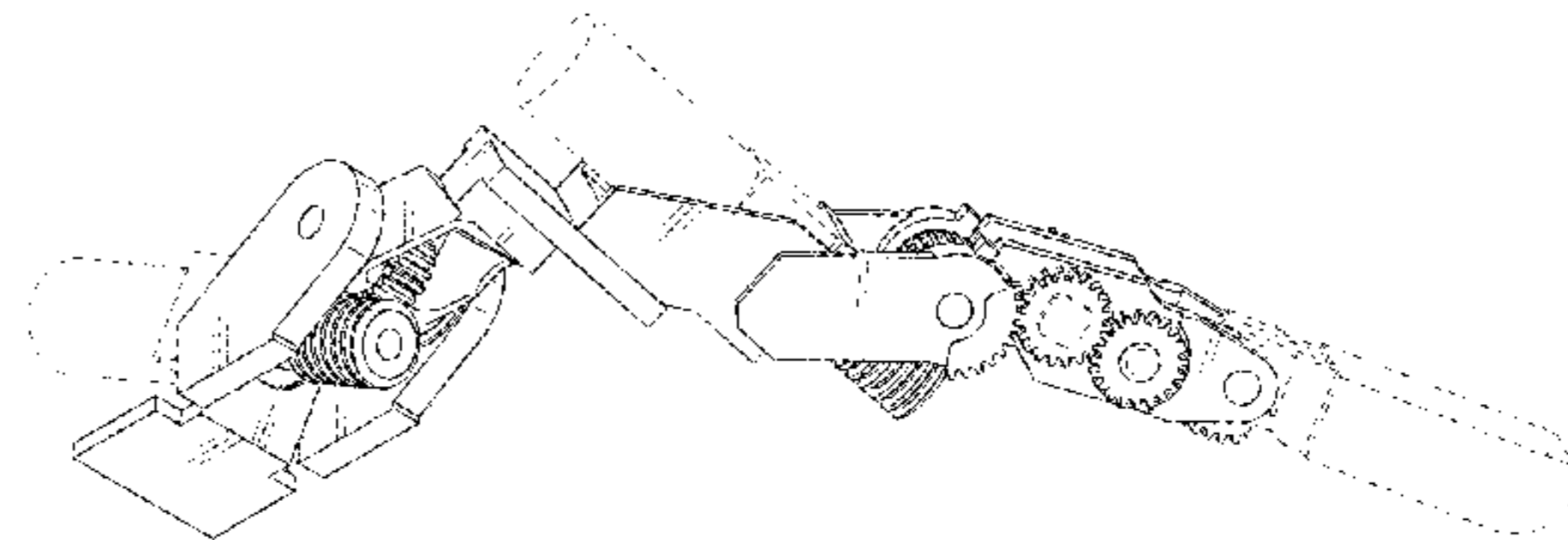
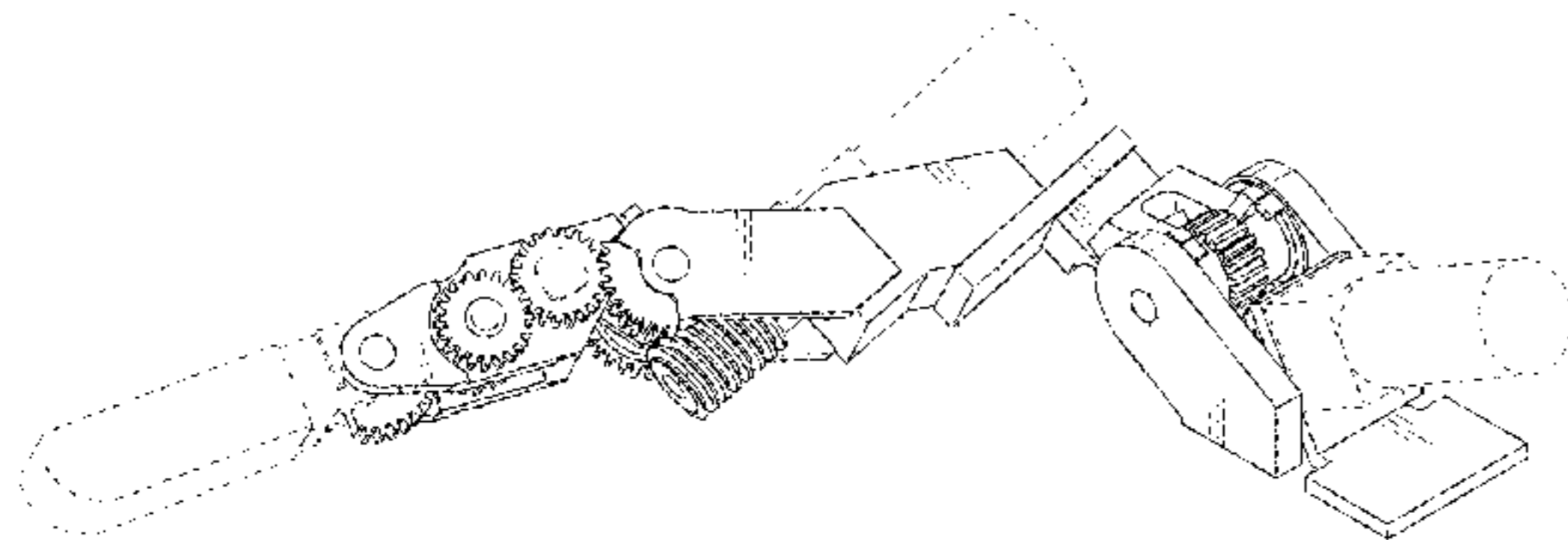
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Primary Examiner — Patricia A Palasik

1 Claim, 12 Drawing Sheets



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Fig. 1

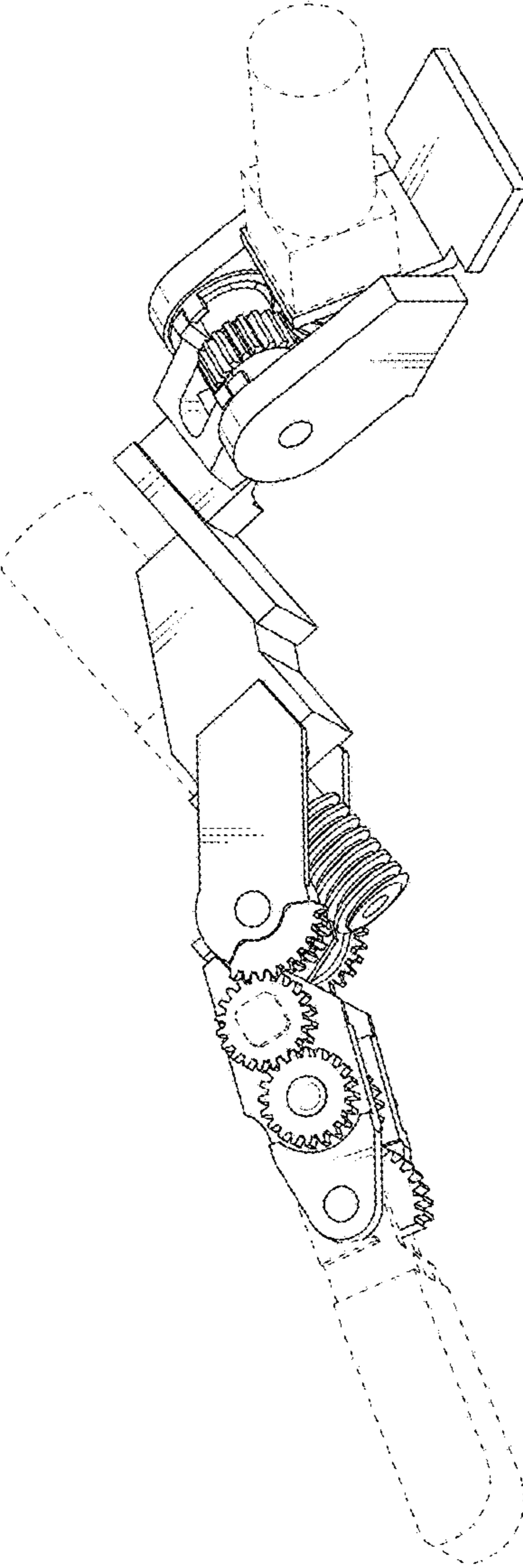


Fig. 2

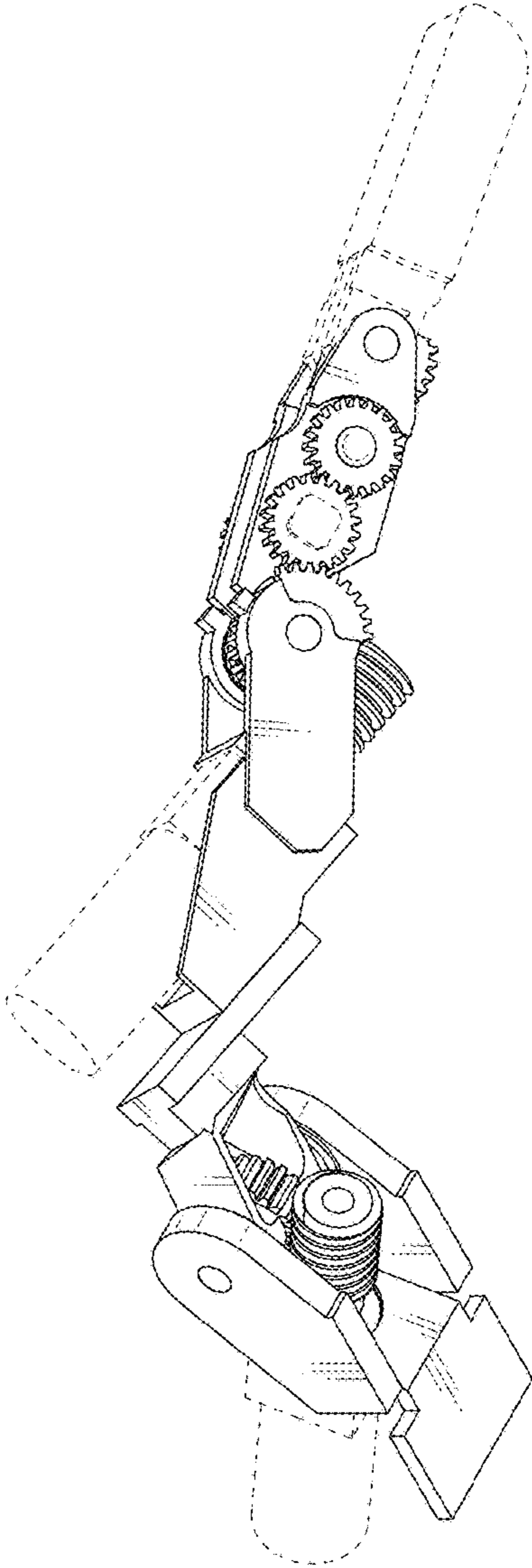


Fig. 3

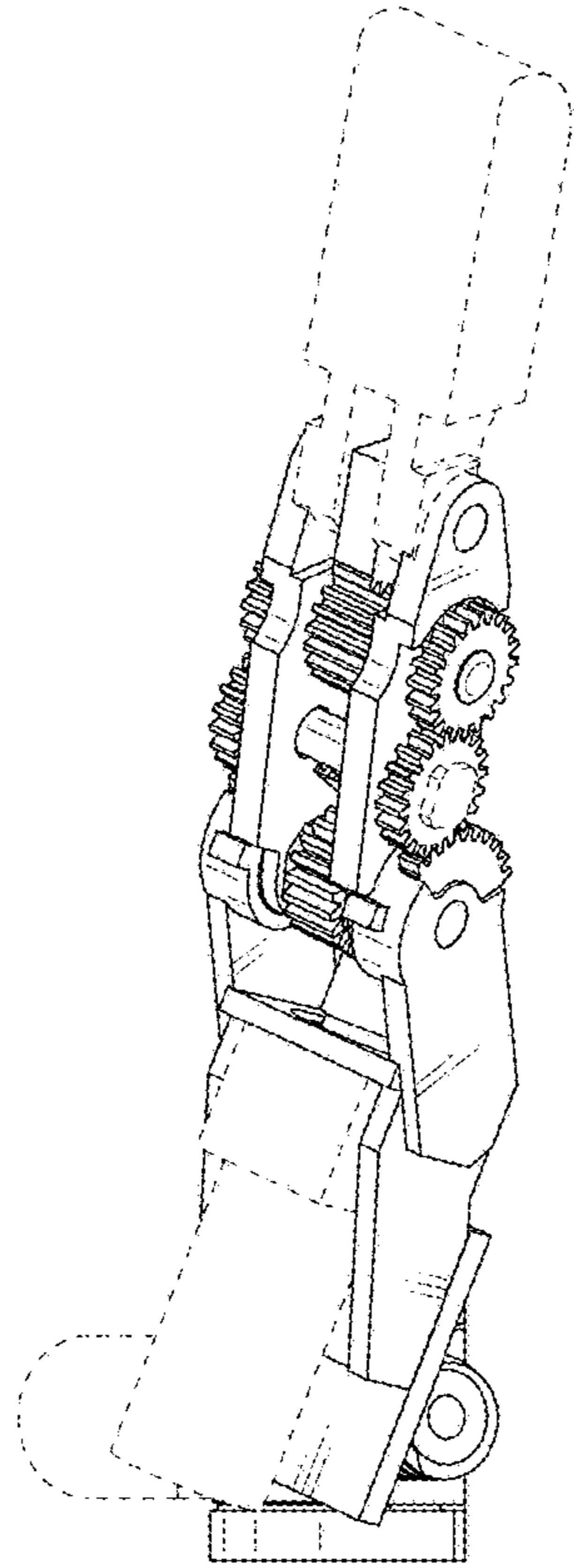


Fig. 4

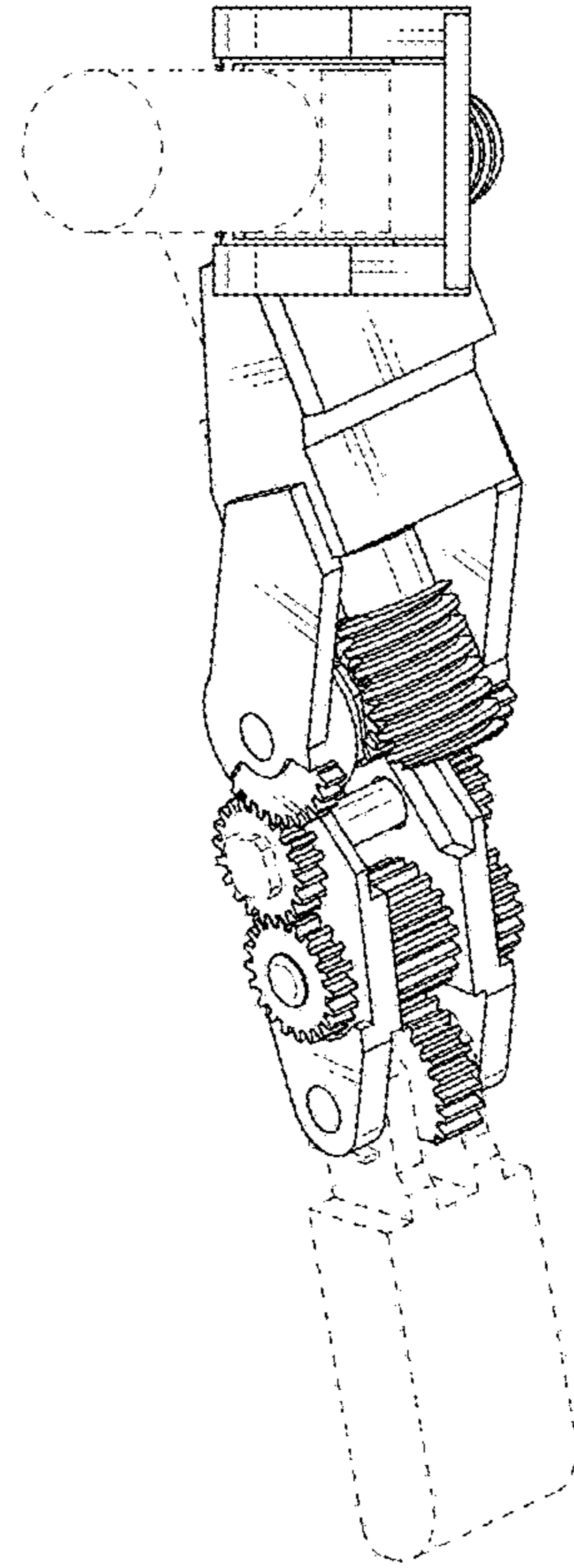


Fig. 5

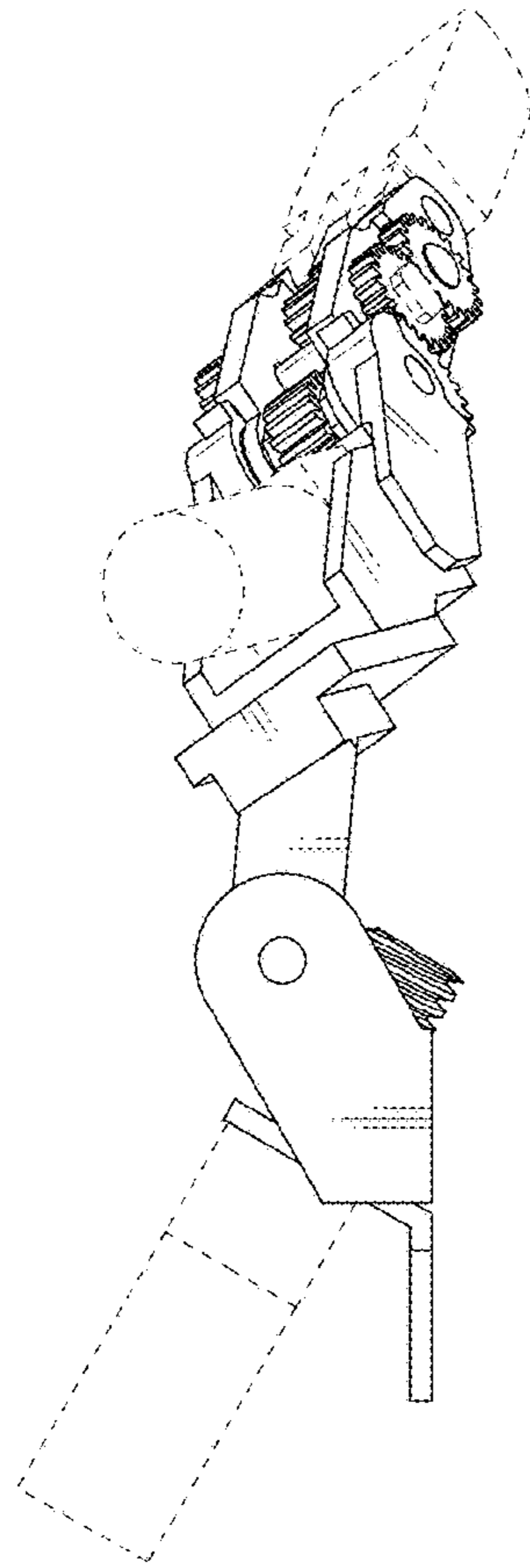


Fig. 6

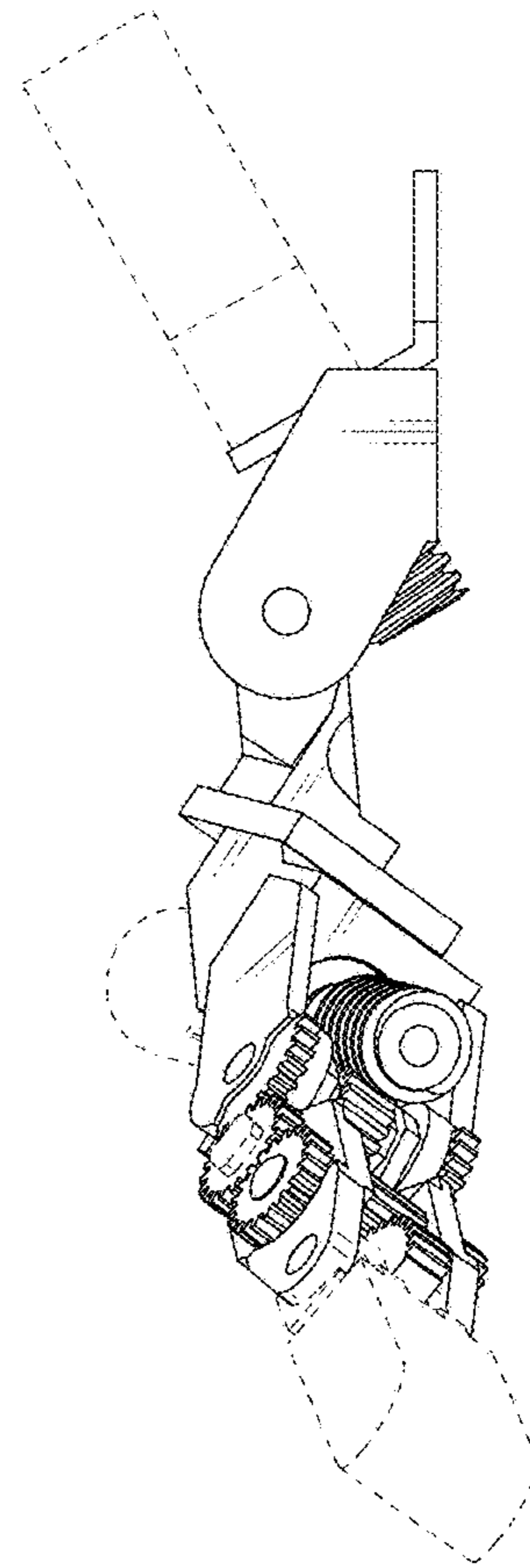


Fig. 7

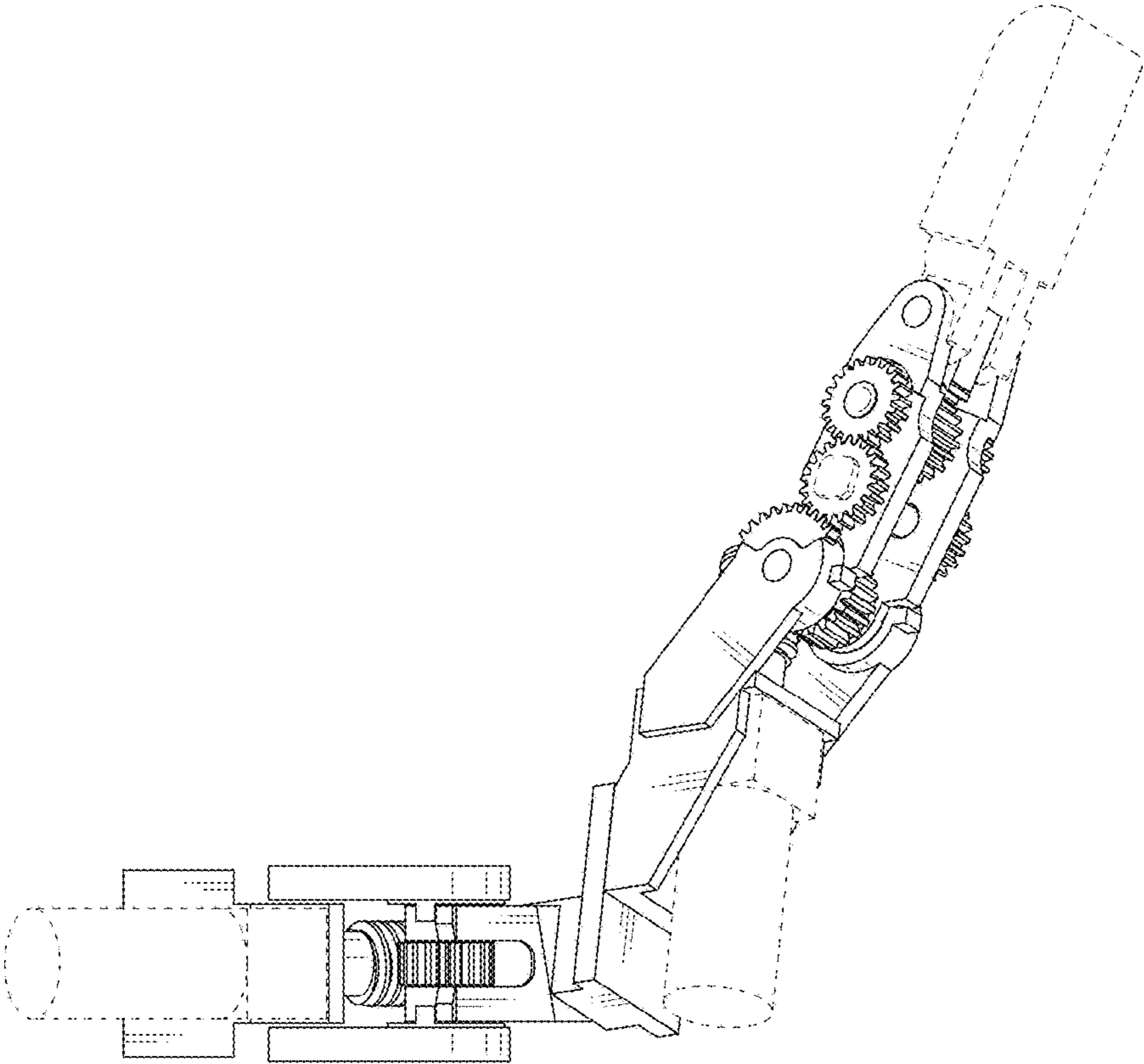


Fig. 8

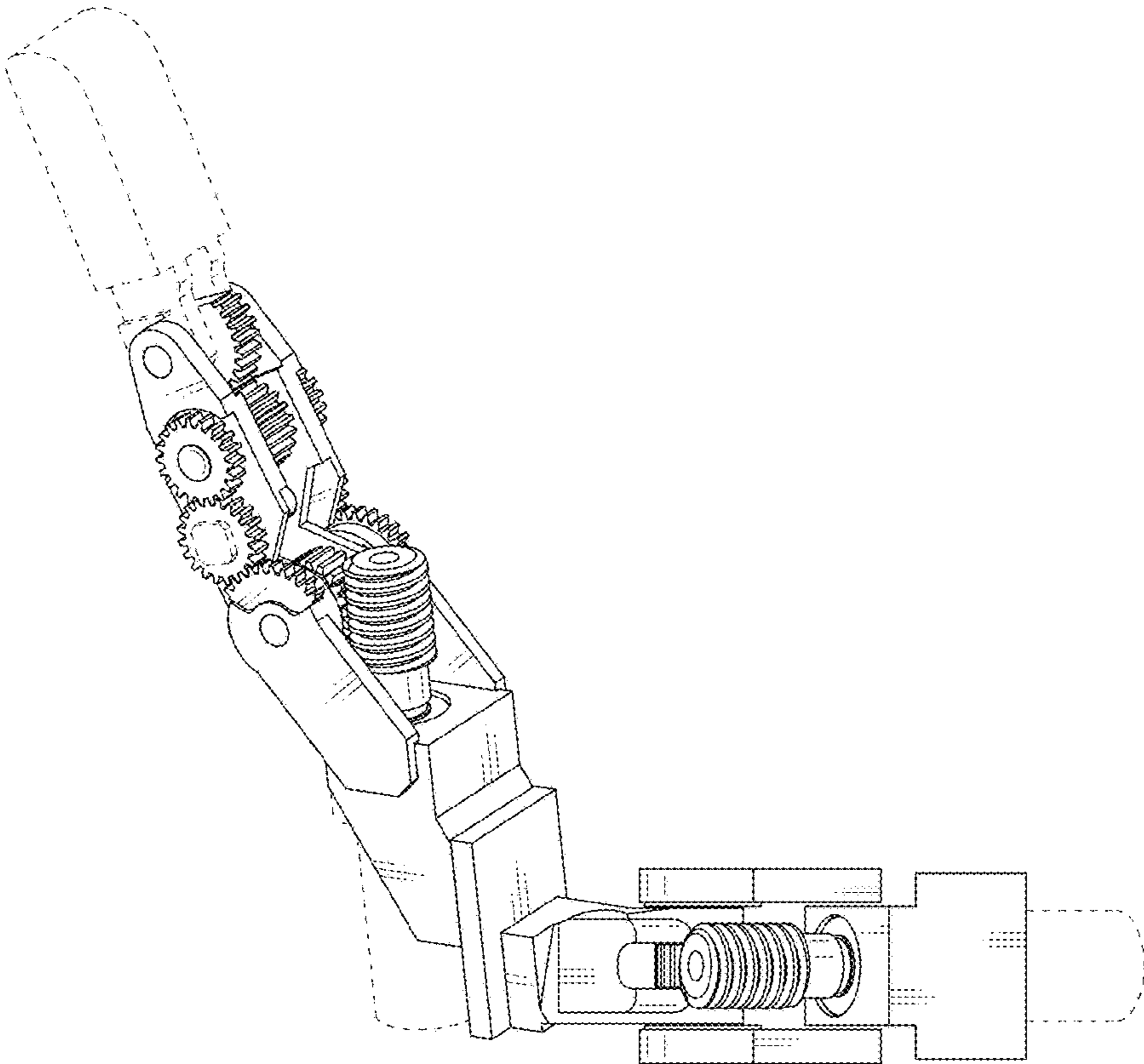


Fig. 10

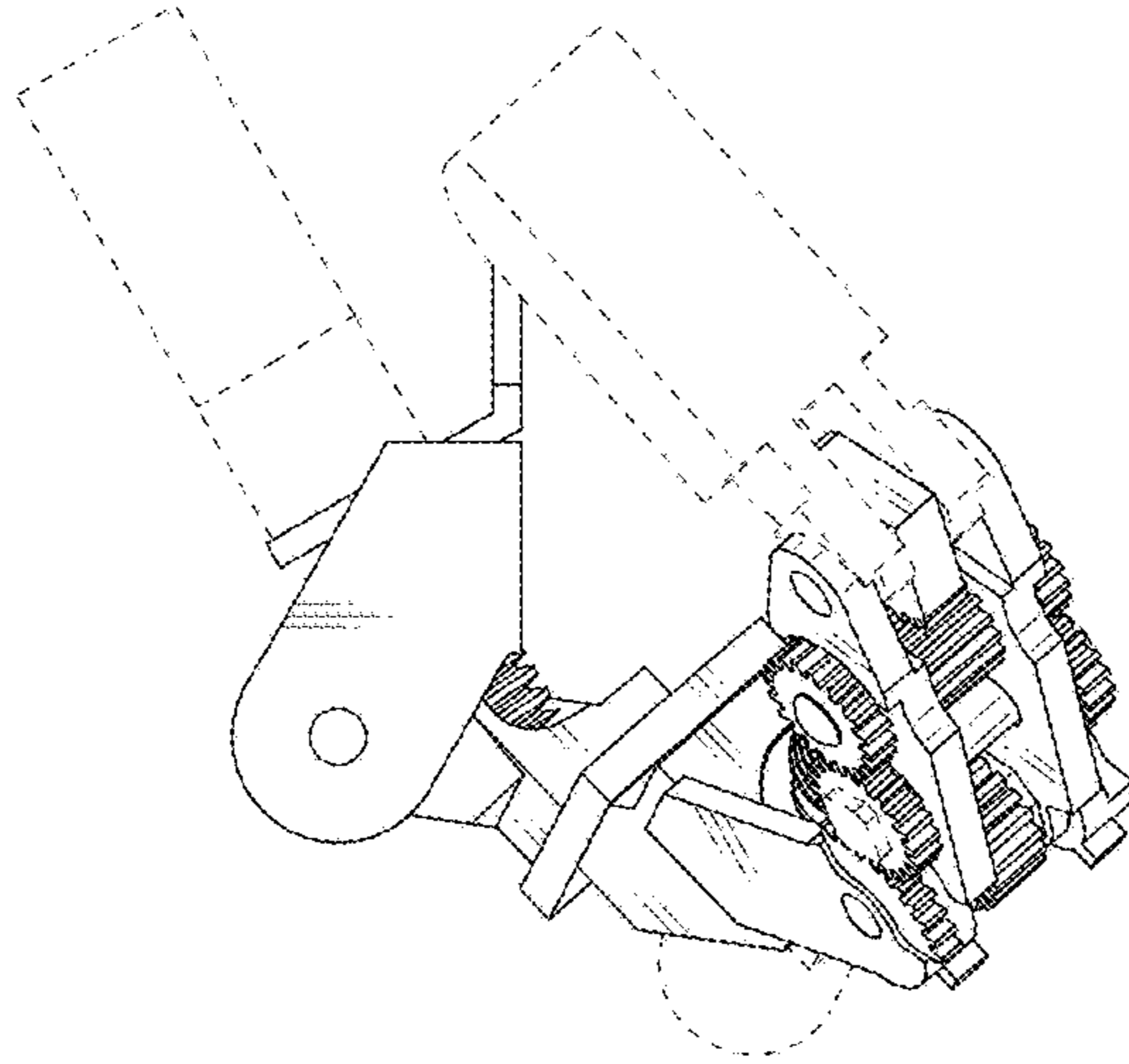


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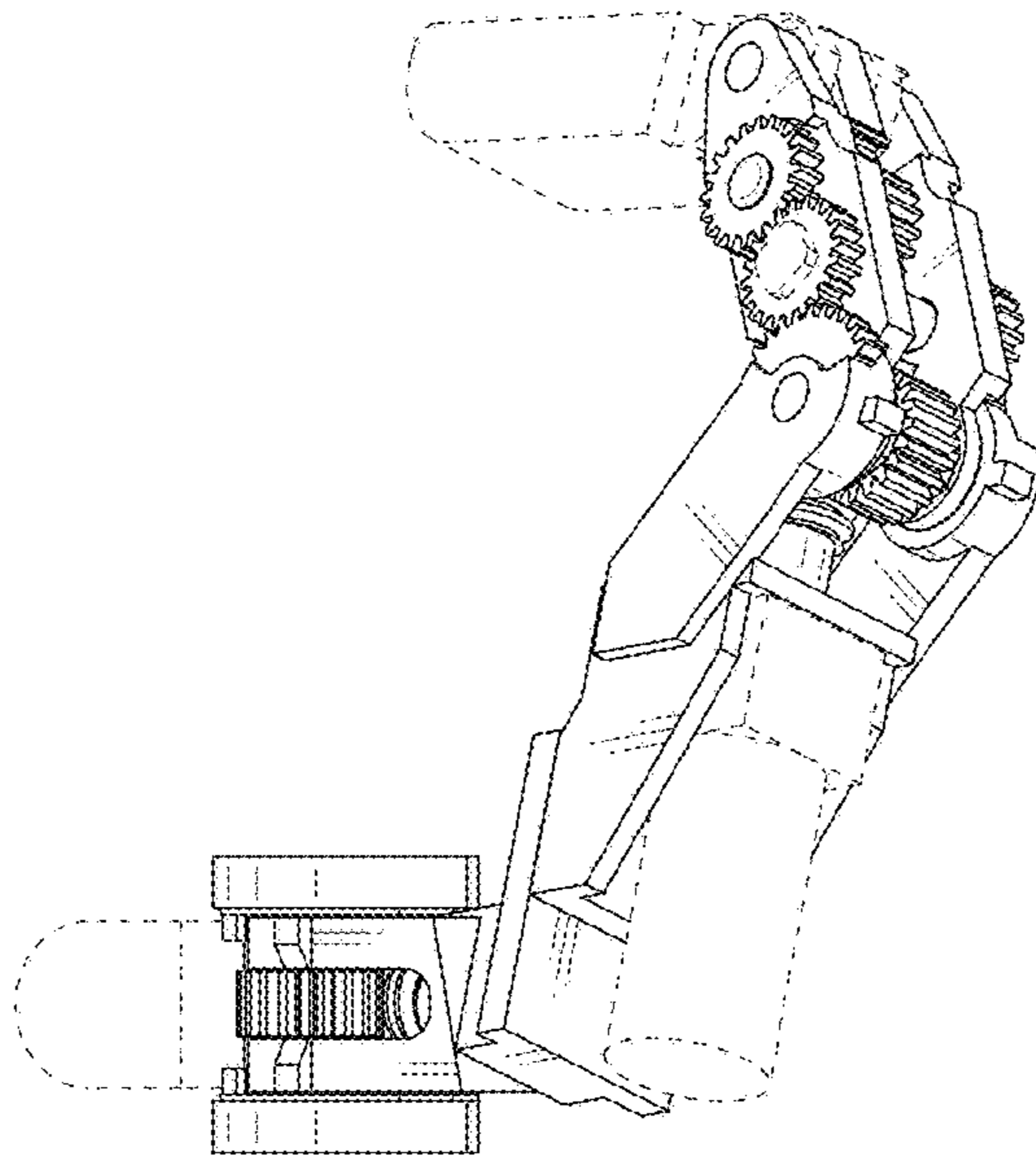


Fig. 11

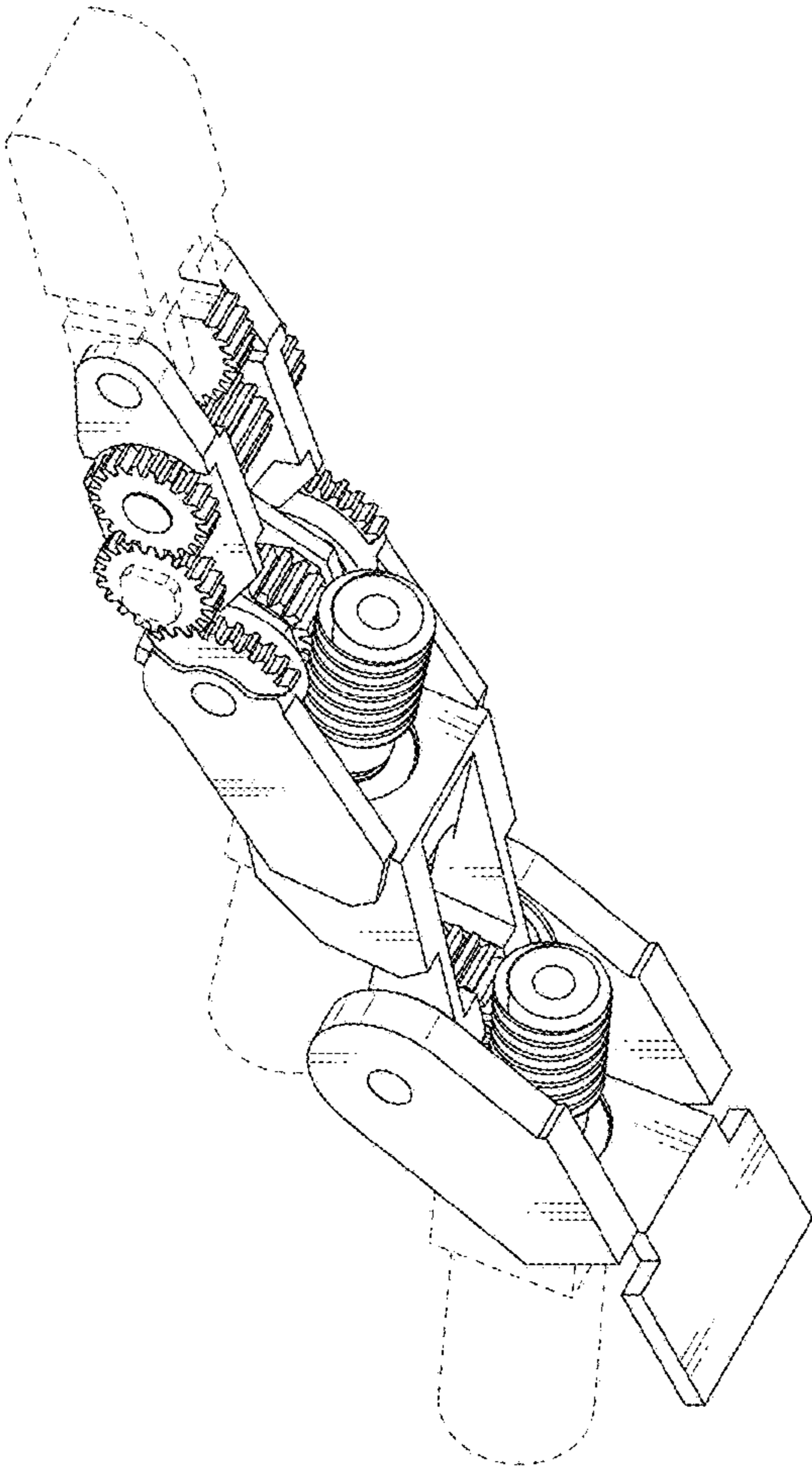


Fig. 12

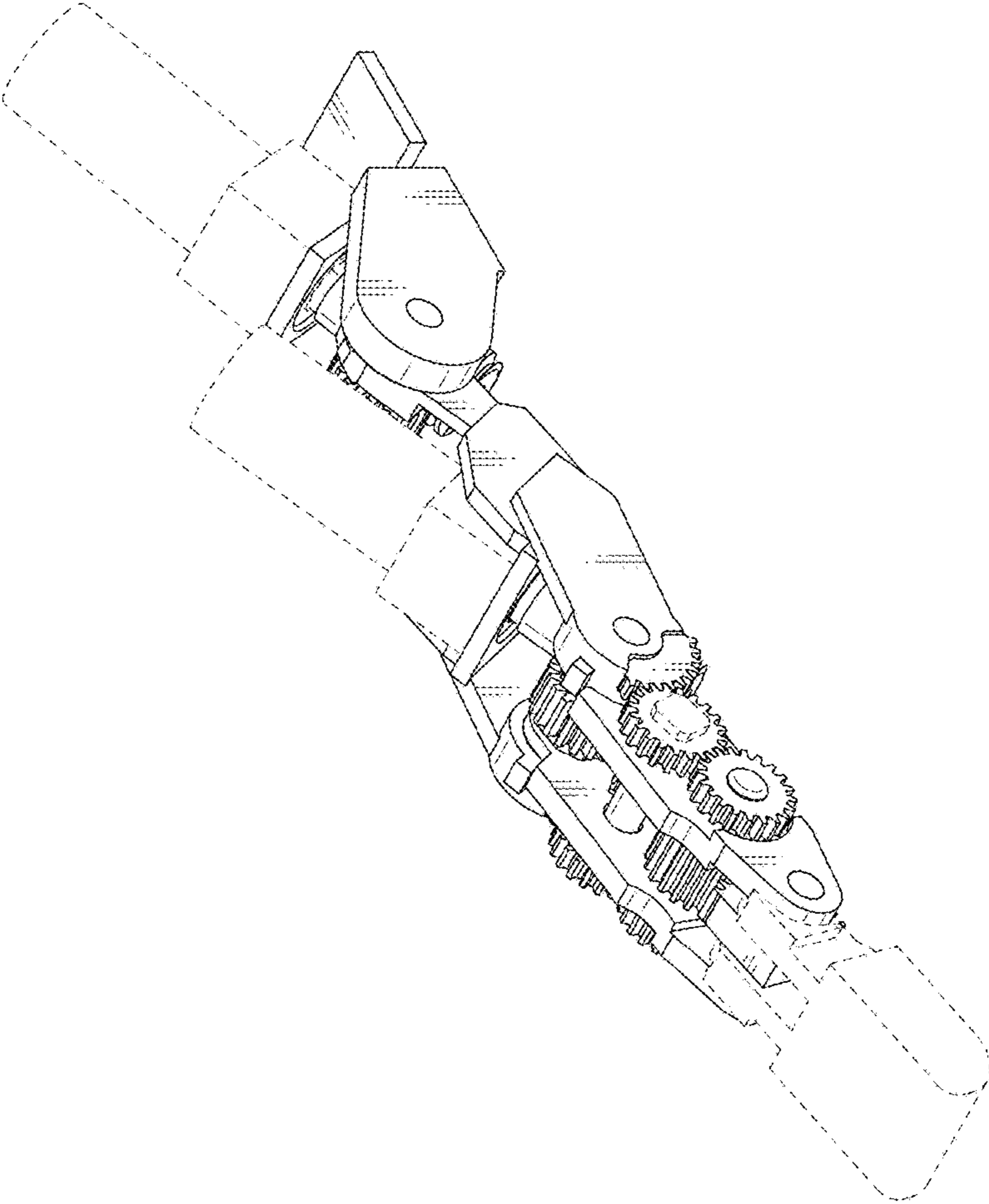


Fig. 13

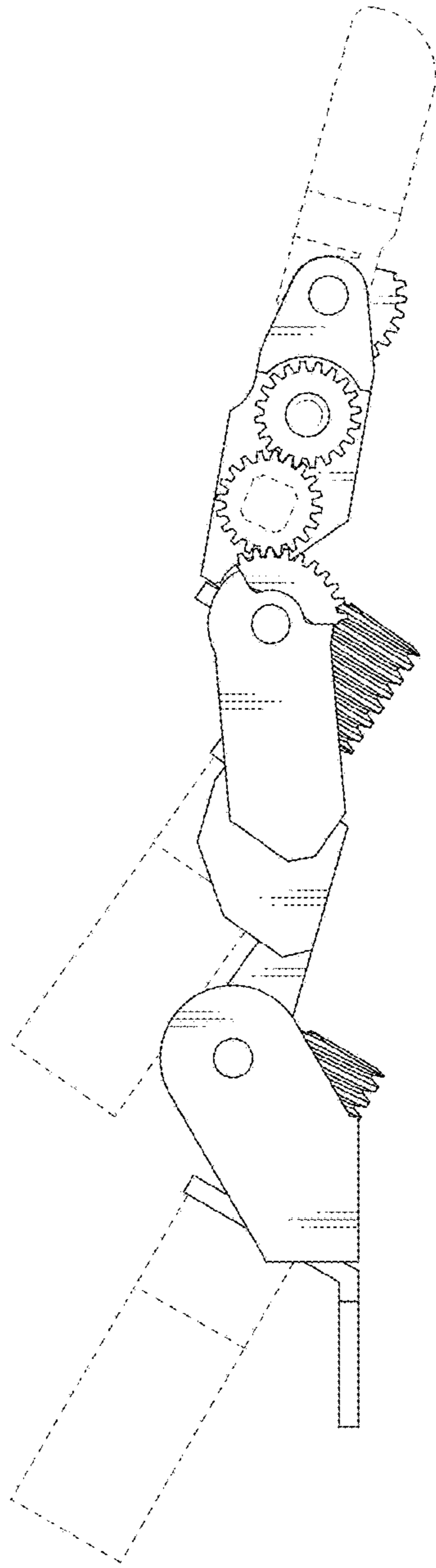


Fig. 14

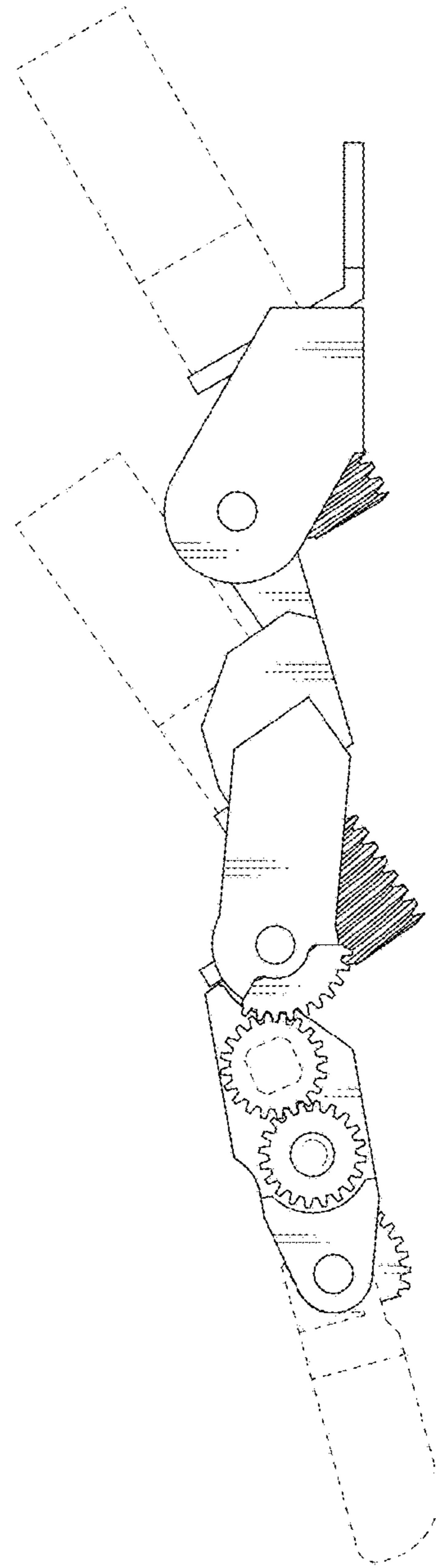


Fig. 16

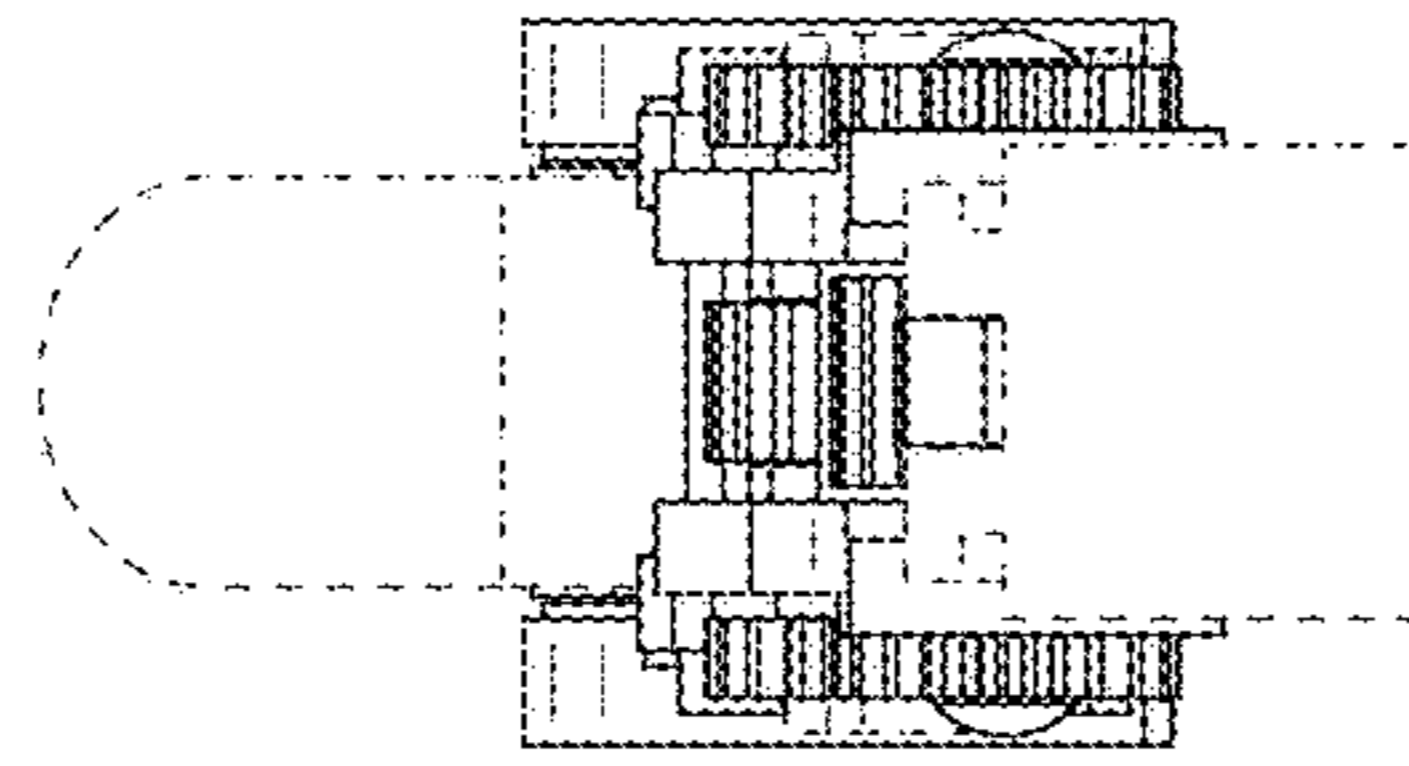


Fig. 15

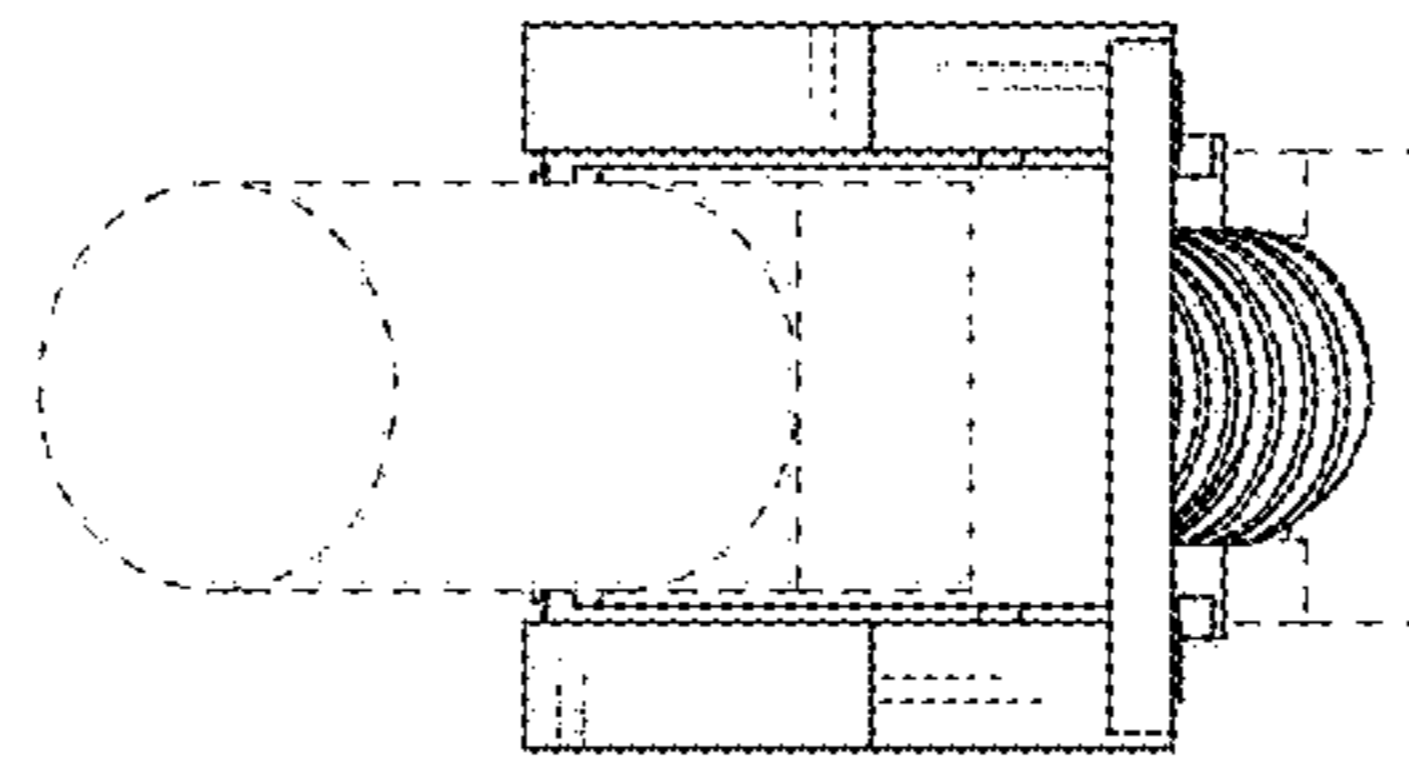


Fig. 17

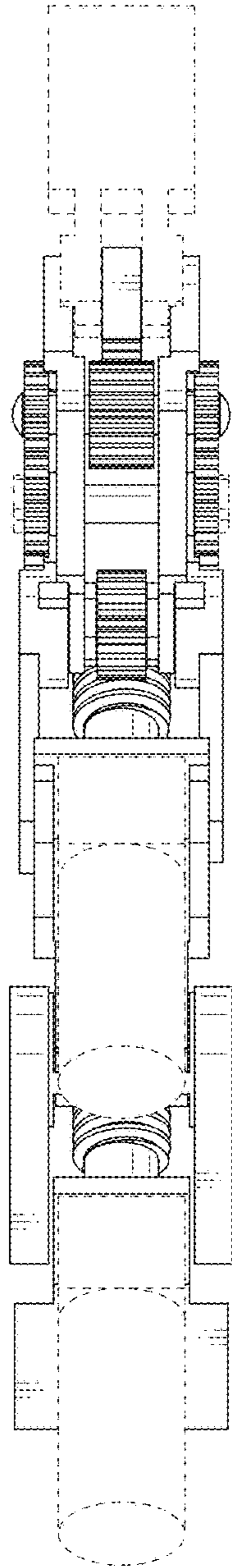


Fig. 18

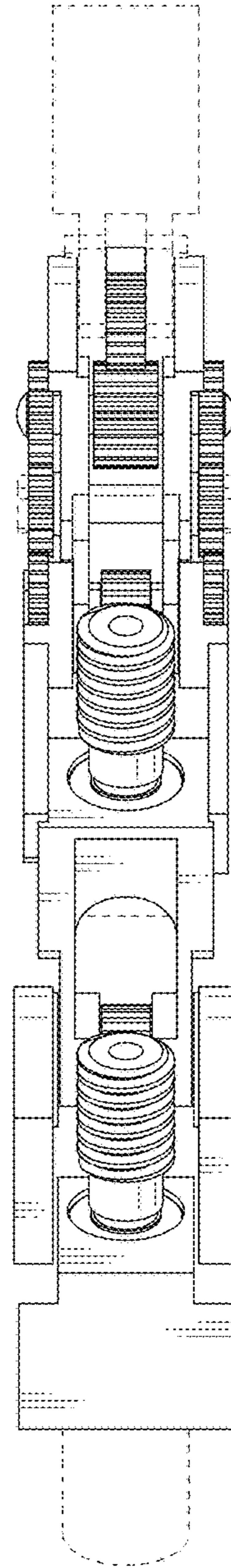


Fig. 19

