



US00D924953S

(12) **United States Design Patent** (10) **Patent No.:** **US D924,953 S**
Shimada (45) **Date of Patent:** **** Jul. 13, 2021**

(54) **GAS INLET ATTACHMENT FOR SUBSTRATE PROCESSING APPARATUS**

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

(72) Inventor: **Hironori Shimada, Toyama (JP)**

(73) Assignee: **KOKUSAI ELECTRIC CORPORATION, Tokyo (JP)**

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

(21) Appl. No.: **29/672,229**

(22) Filed: **Dec. 4, 2018**

(30) **Foreign Application Priority Data**

Jul. 19, 2018 (JP) 2018-015808

(51) **LOC (13) Cl.** **15-09**

(52) **U.S. Cl.**
USPC **D15/144.1; D13/182**

(58) **Field of Classification Search**
USPC D13/182, 199; D15/138, 144, 144.1, D15/199; D23/266
CPC C23C 16/4412; C23C 16/455; C23C 16/45546; C23C 16/45548; C23C 16/45558; C23C 16/45595
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- D326,272 S * 5/1992 Nakao D15/144.1
- 7,700,054 B2 * 4/2010 Hayashida F27B 17/0025
422/202
- D890,572 S * 7/2020 Saiki D7/407
- D901,564 S * 11/2020 Murata D15/144.1

- 2003/0159653 A1 * 8/2003 Dando C23C 16/455
118/715
- 2008/0302302 A1 * 12/2008 Horita C23C 16/4407
118/715
- 2013/0220221 A1 * 8/2013 Sanchez C23C 16/4483
118/712
- 2013/0276707 A1 * 10/2013 Pierreux C23C 16/45546
118/728
- 2014/0239091 A1 * 8/2014 Huang C23C 16/4401
239/128
- 2015/0240359 A1 * 8/2015 Jdira C23C 16/45512
438/778
- 2017/0051408 A1 * 2/2017 Takagi C23C 16/45563
- 2017/0073810 A1 * 3/2017 Hyon C23C 16/455
- 2017/0241015 A1 * 8/2017 Sim C23C 16/4481
- 2017/0283947 A1 * 10/2017 Rasheed C23C 16/509
- 2018/0087156 A1 * 3/2018 Fukushima C23C 16/45587

* cited by examiner

Primary Examiner — Selina Sikder

(74) *Attorney, Agent, or Firm* — Fitch, Even, Tabin & Flannery LLP

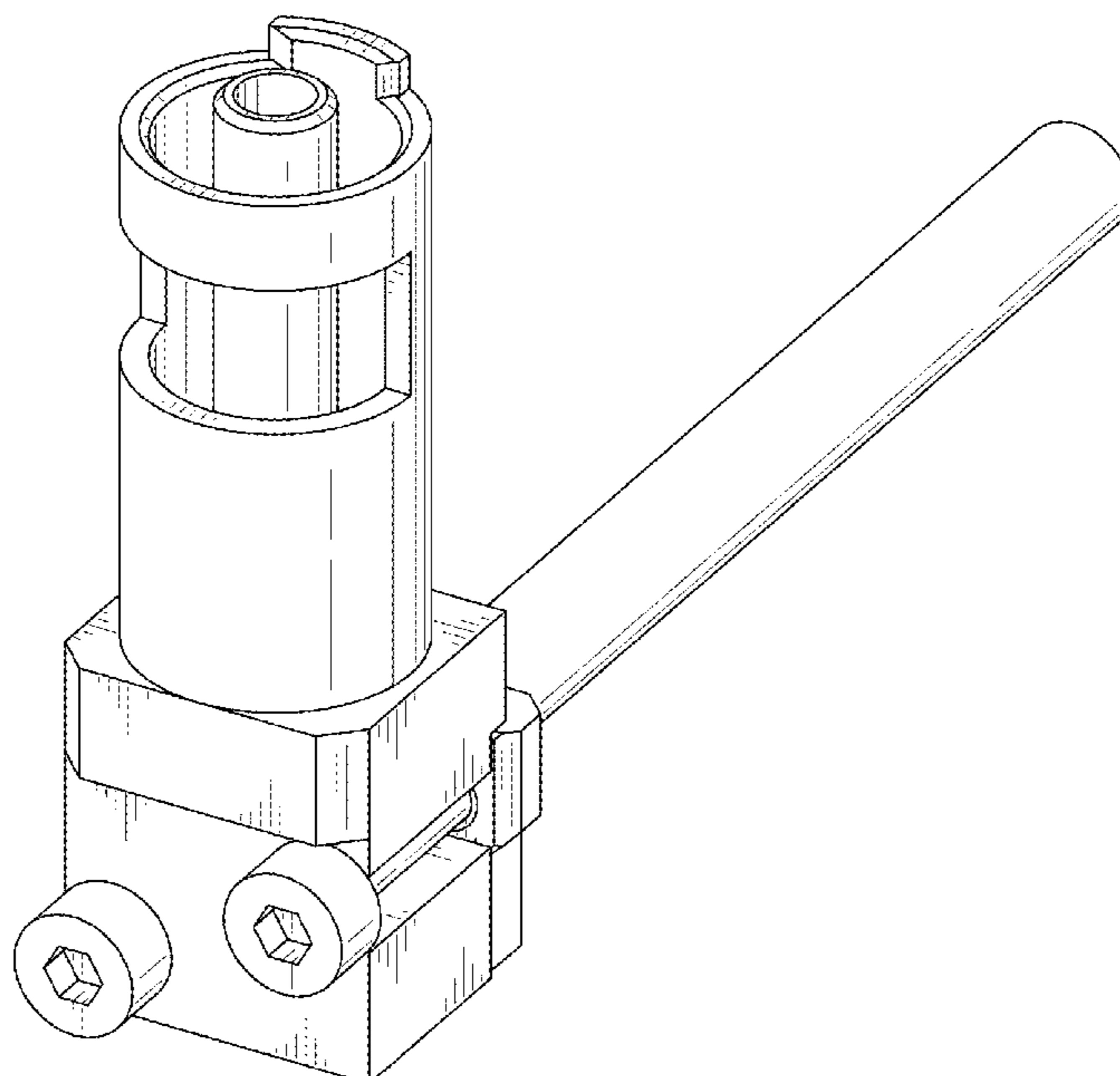
(57) **CLAIM**

I claim the ornamental design for a gas inlet attachment for substrate processing apparatus, as shown and described.

DESCRIPTION

FIG. 1 is a front, top and left side perspective view of a gas inlet attachment for substrate processing apparatus showing our new design;
 FIG. 2 is a front elevational view thereof;
 FIG. 3 is a rear elevational view thereof; and,
 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; and,
 FIG. 8 is a cross-sectional view take along line 8-8 in Fig.4.

1 Claim, 6 Drawing Sheets



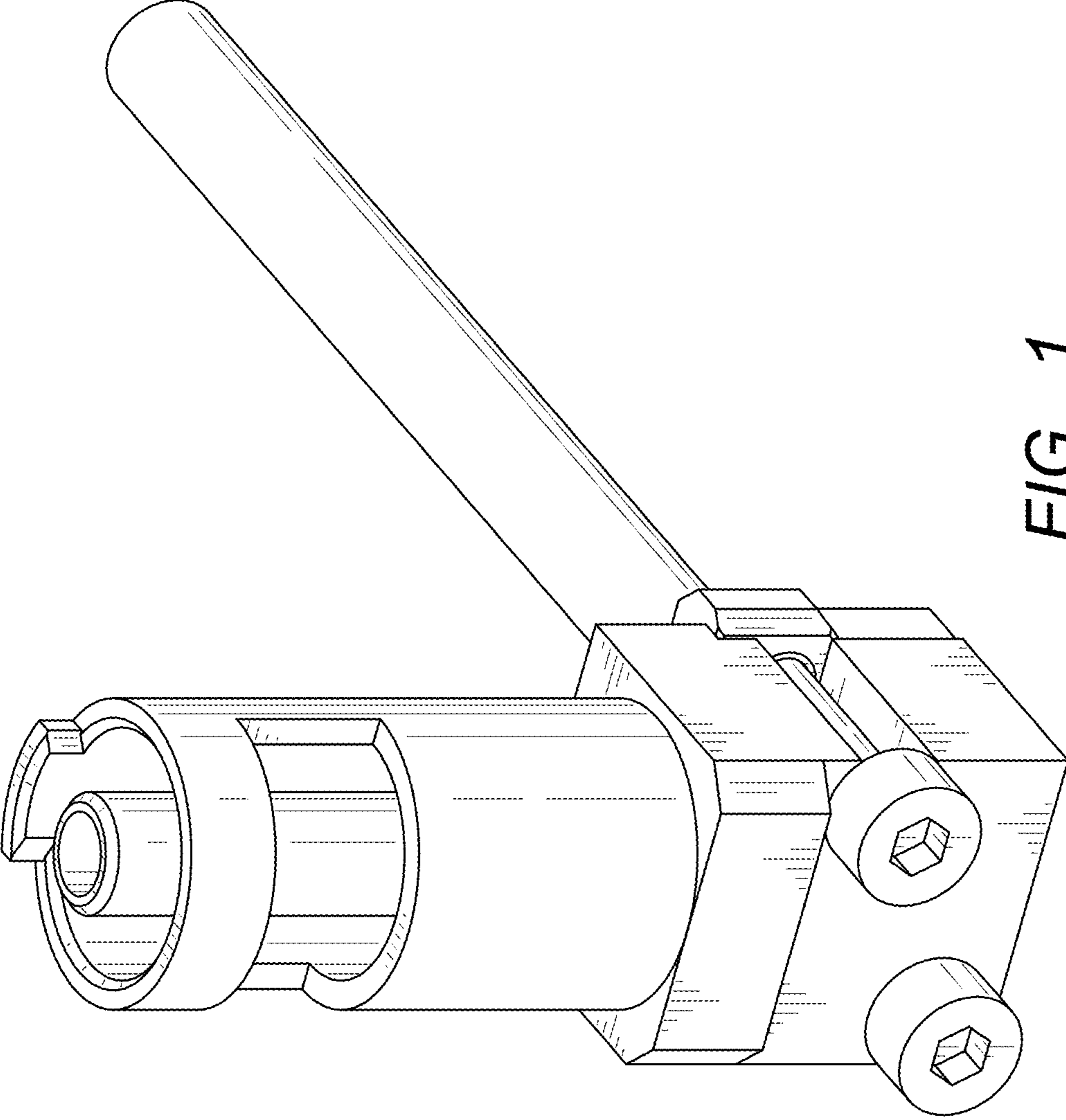


FIG. 1

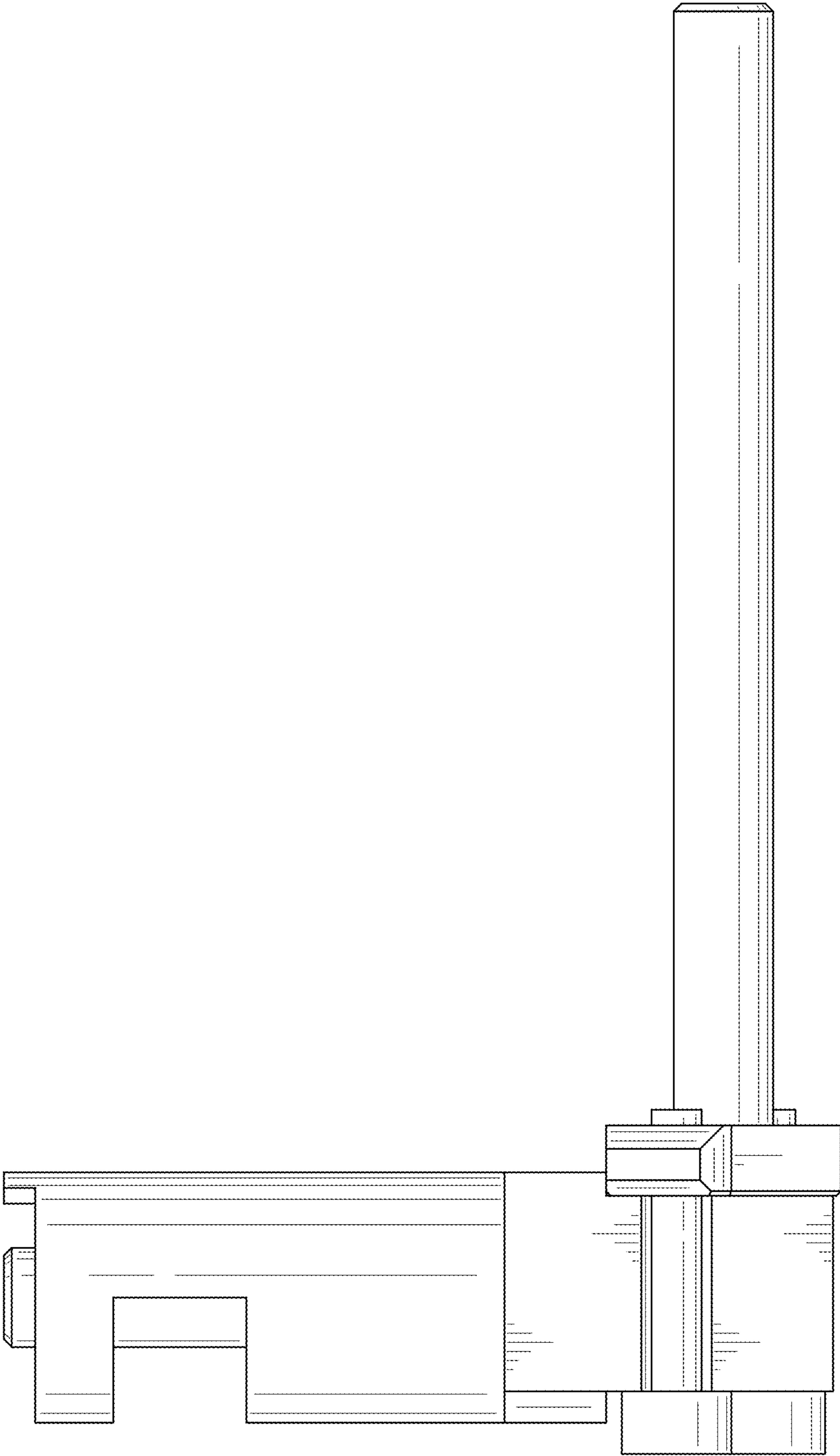


FIG. 2

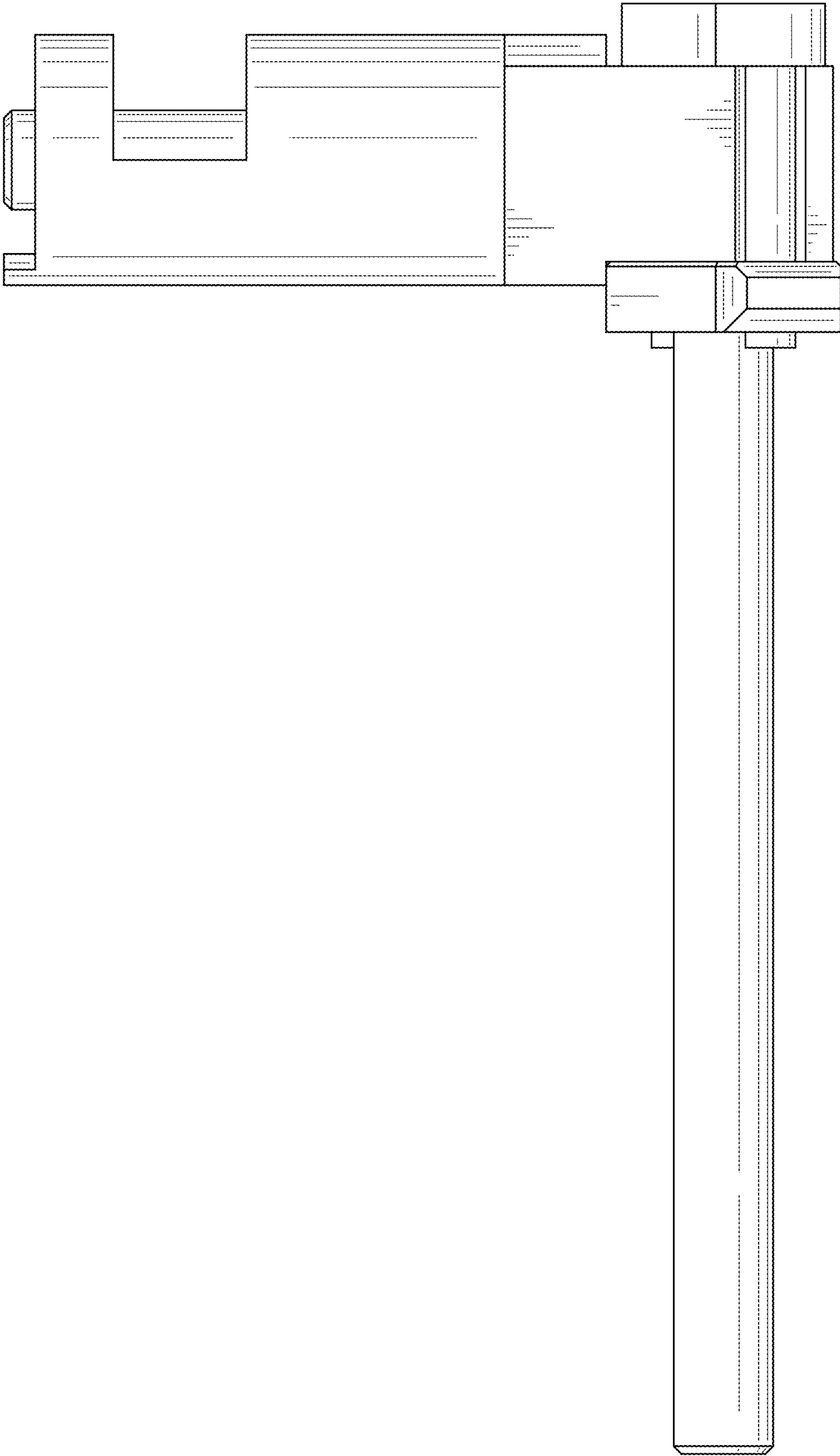


FIG. 3

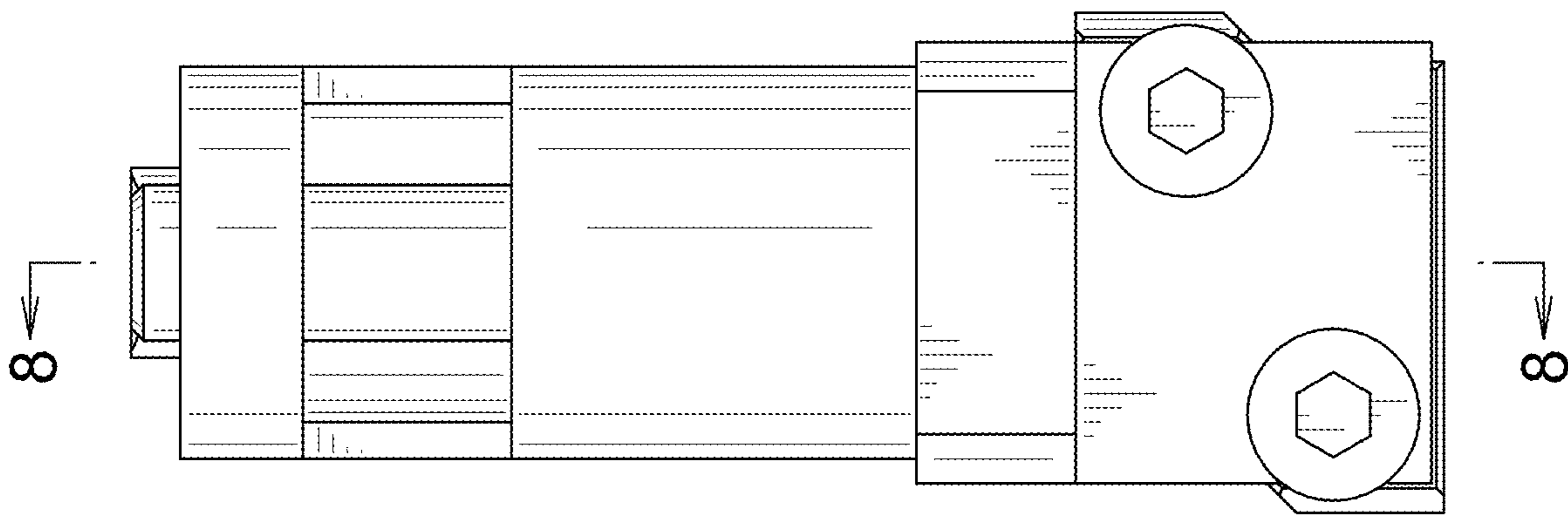


FIG. 4

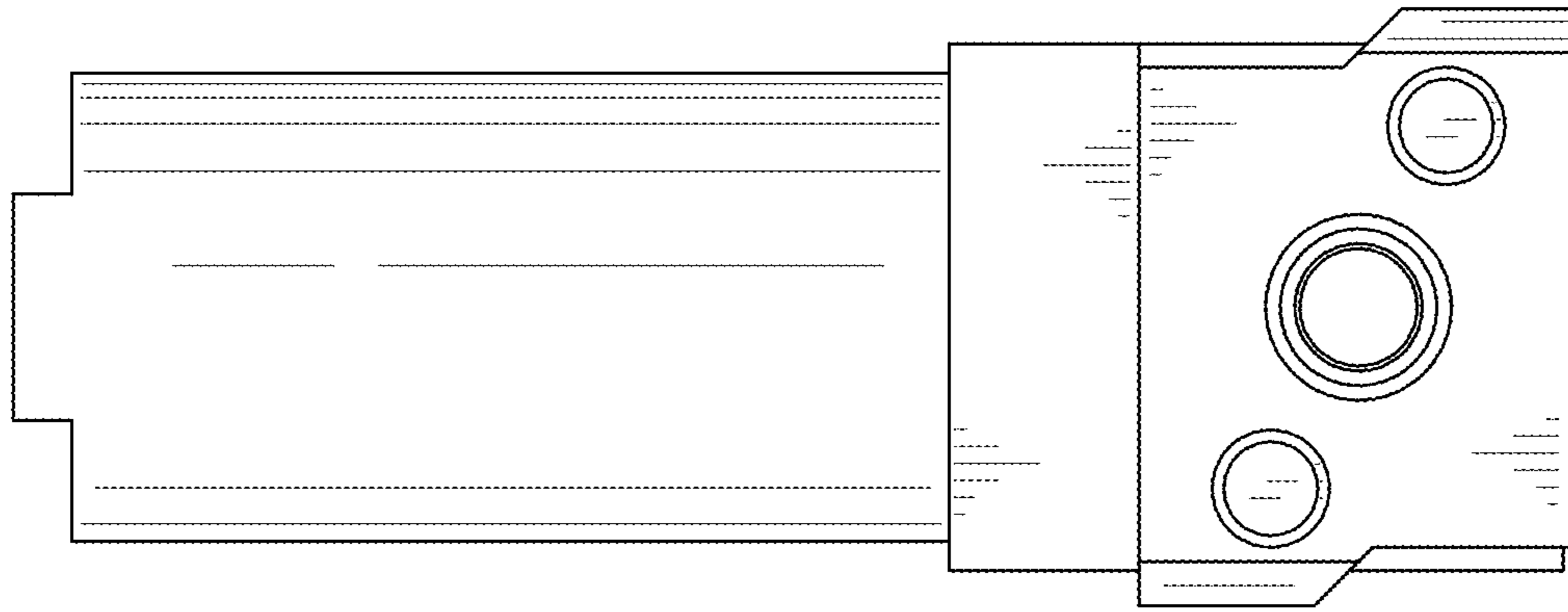


FIG. 5

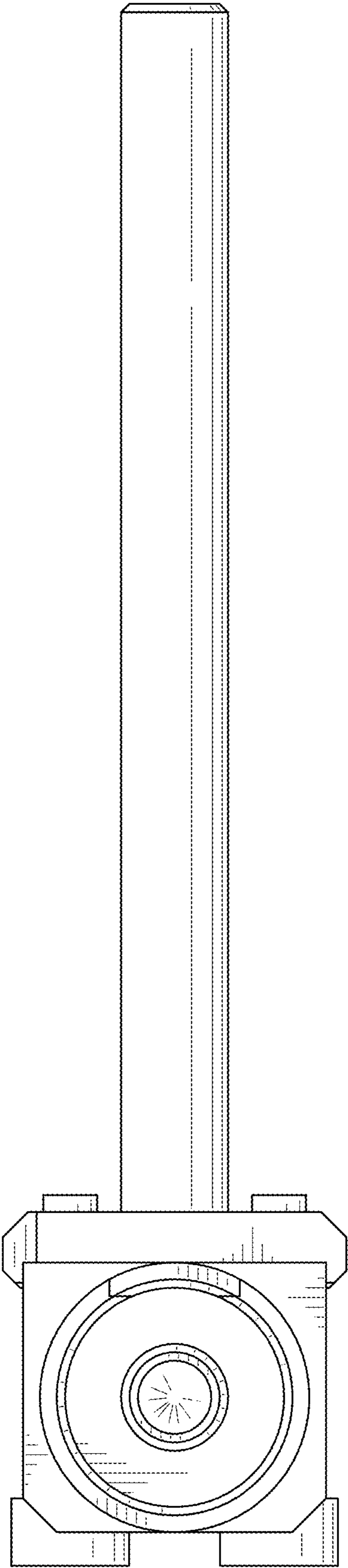


FIG. 6

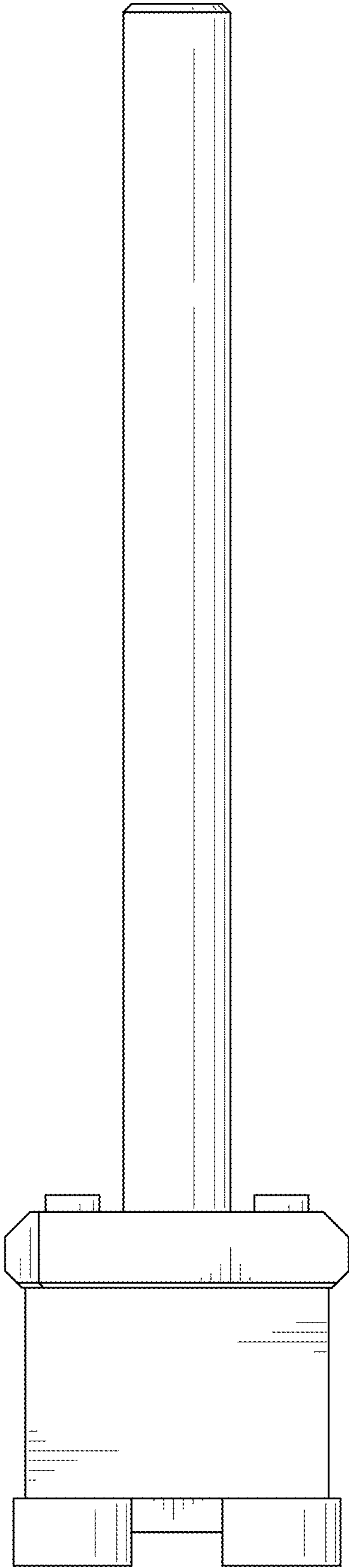


FIG. 7

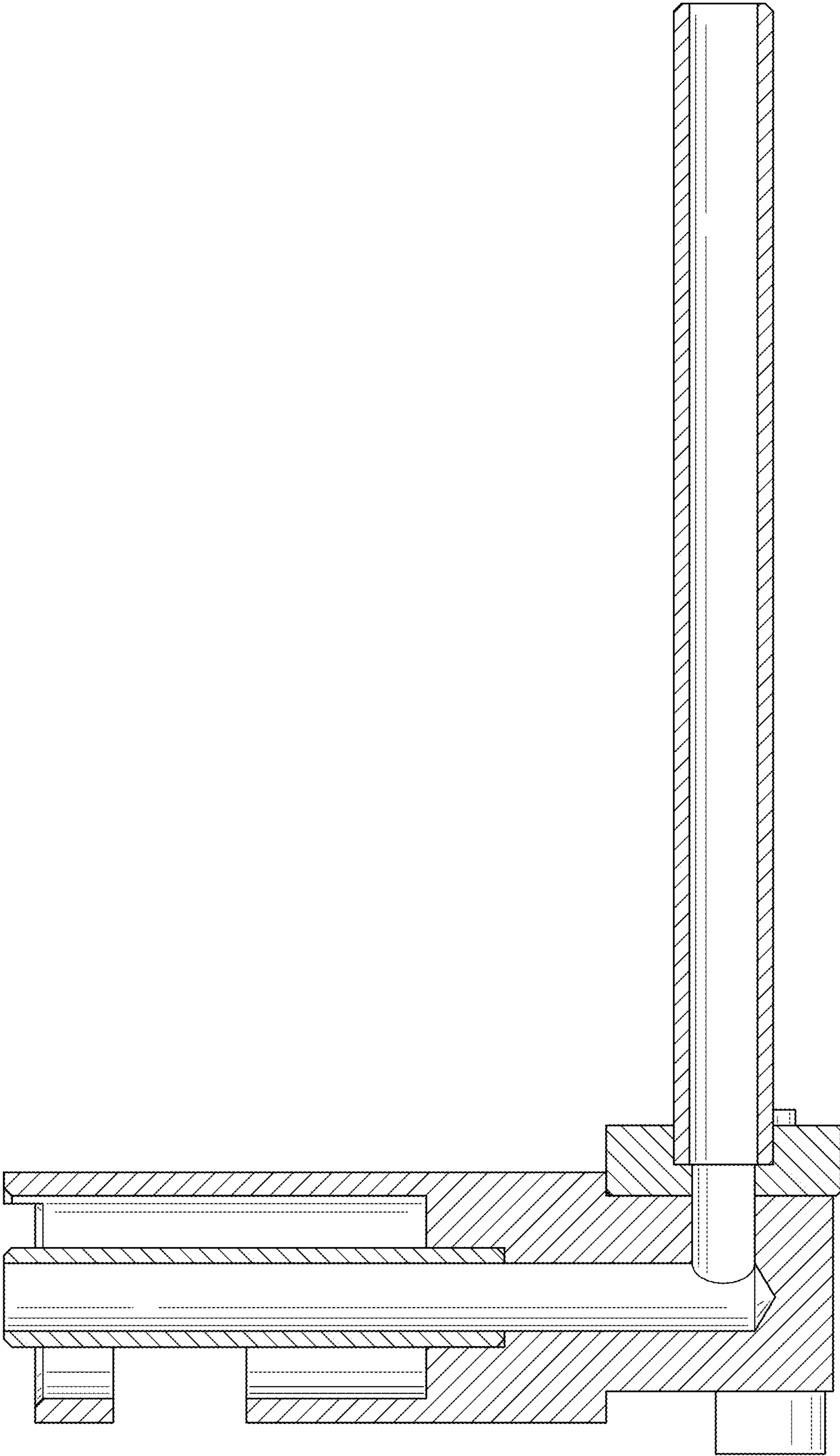


FIG. 8