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Arioka et al.

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(54) **ACTUATOR FOR VACUUM CIRCUIT BREAKER**

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

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(30) **Foreign Application Priority Data**

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(51) **LOC (10) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/158; D15/143**

(58) **Field of Classification Search**
USPC D13/158, 166, 169, 170, 174, 183;
439/717, 721, 725; D15/143, 199, 5, 7;
474/148; 74/89

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,777,578 A * 12/1973 Swanberg 74/89
D399,830 S * 10/1998 Nagai et al. D13/158
D621,860 S * 8/2010 Fukano et al. D15/143
D624,100 S * 9/2010 Fukano et al. D15/143
D624,572 S * 9/2010 Fukano et al. D15/143
2010/0320063 A1 * 12/2010 Takahara et al. 200/50.25

* cited by examiner

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(57) **CLAIM**

The ornamental design for an actuator for vacuum circuit breaker, as shown and described.

DESCRIPTION

FIG. 1 is a front, bottom and left side perspective view of an actuator for vacuum circuit breaker, showing our new 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; and, FIG. 8 is a reference view showing in use thereof.

1 Claim, 7 Drawing Sheets

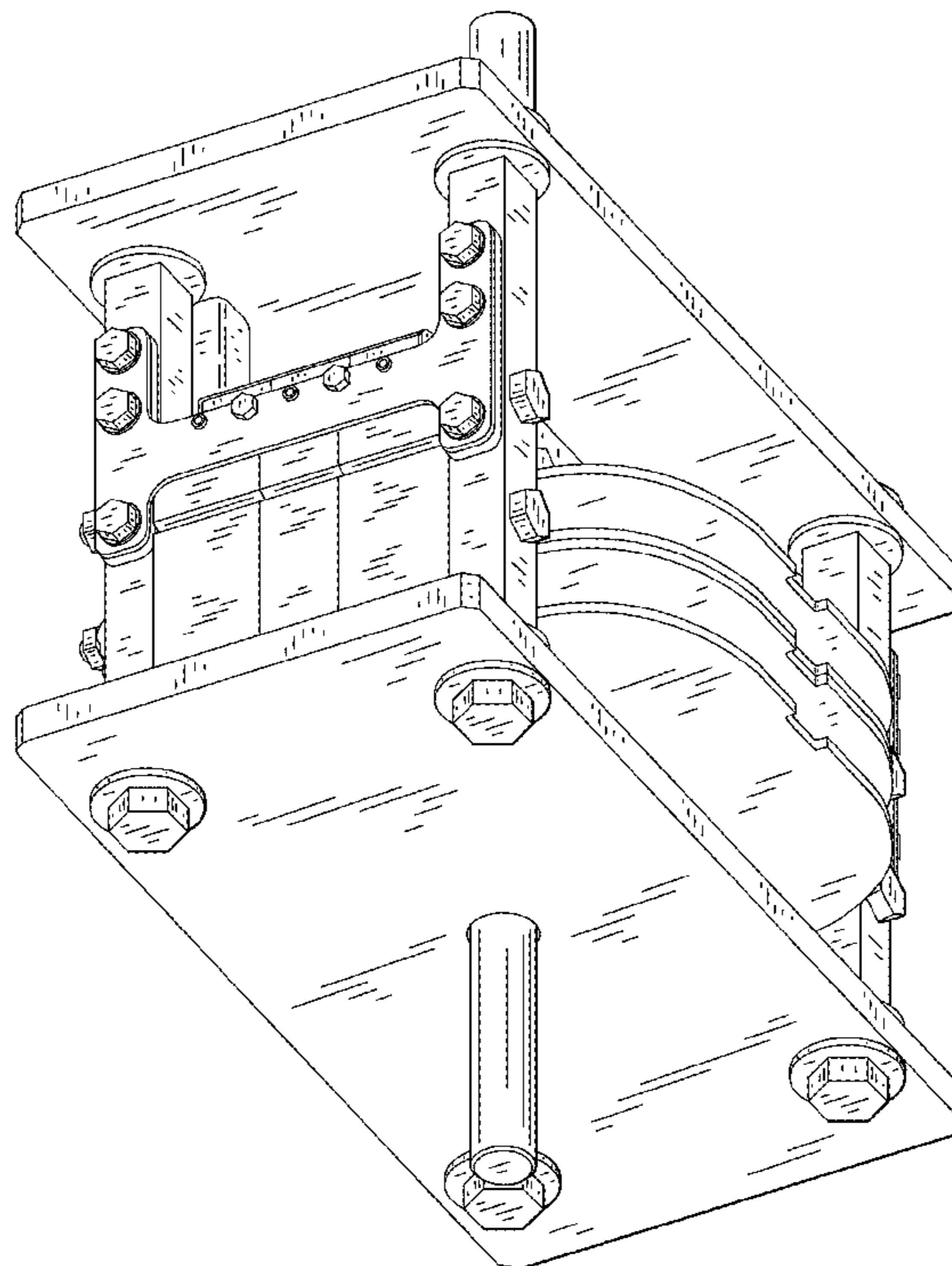


FIG. 1

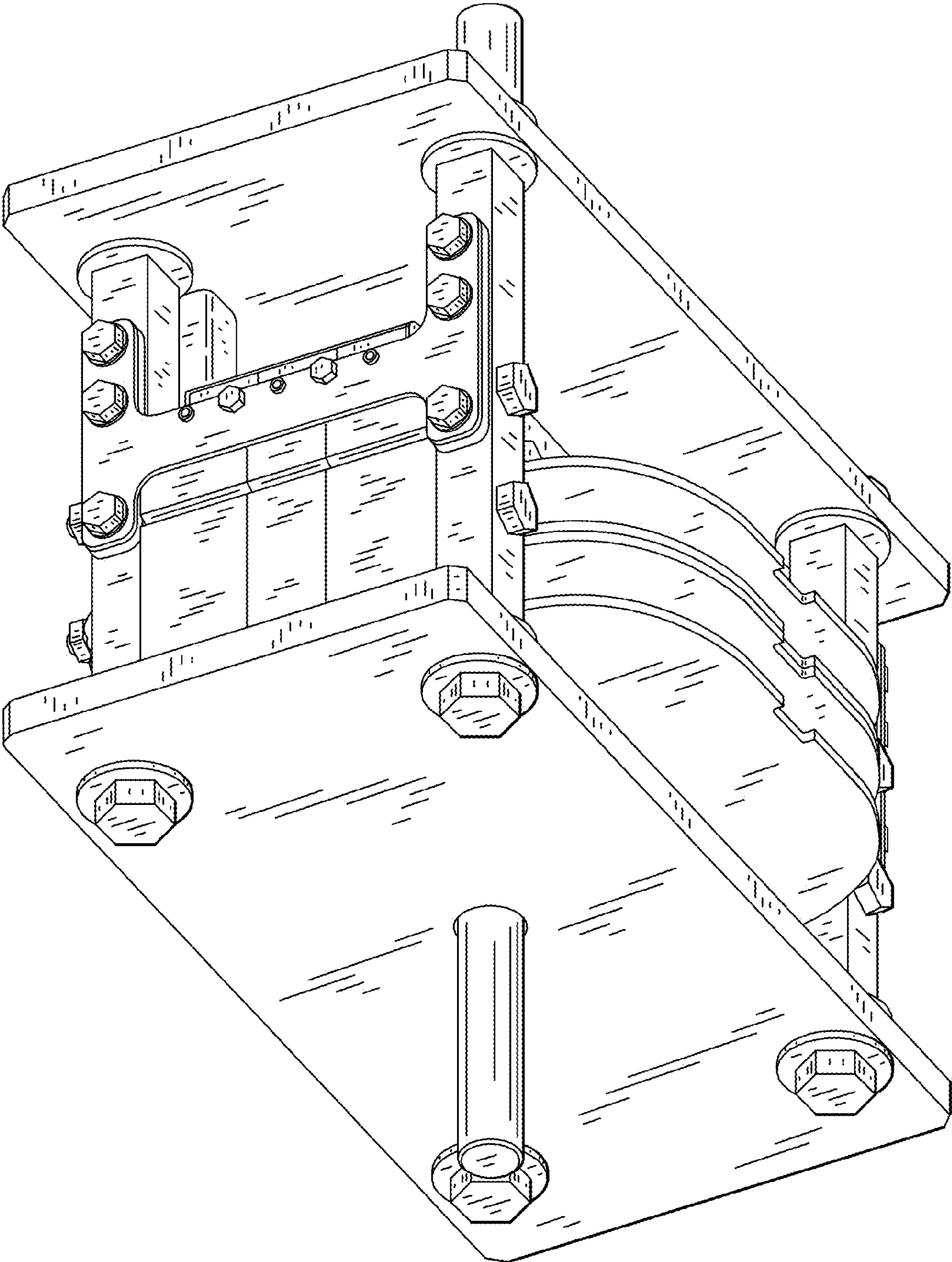


FIG. 2

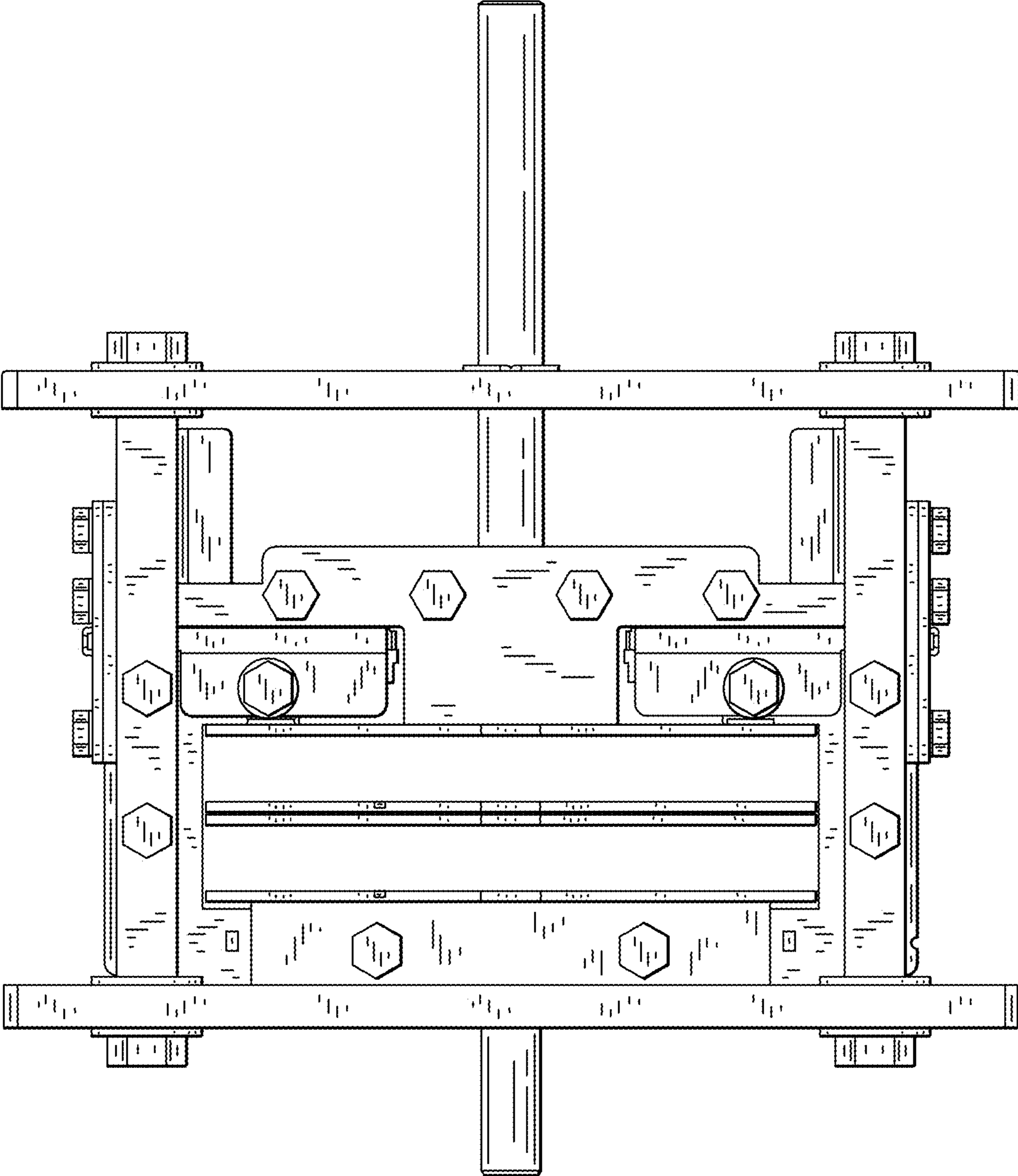


FIG. 3

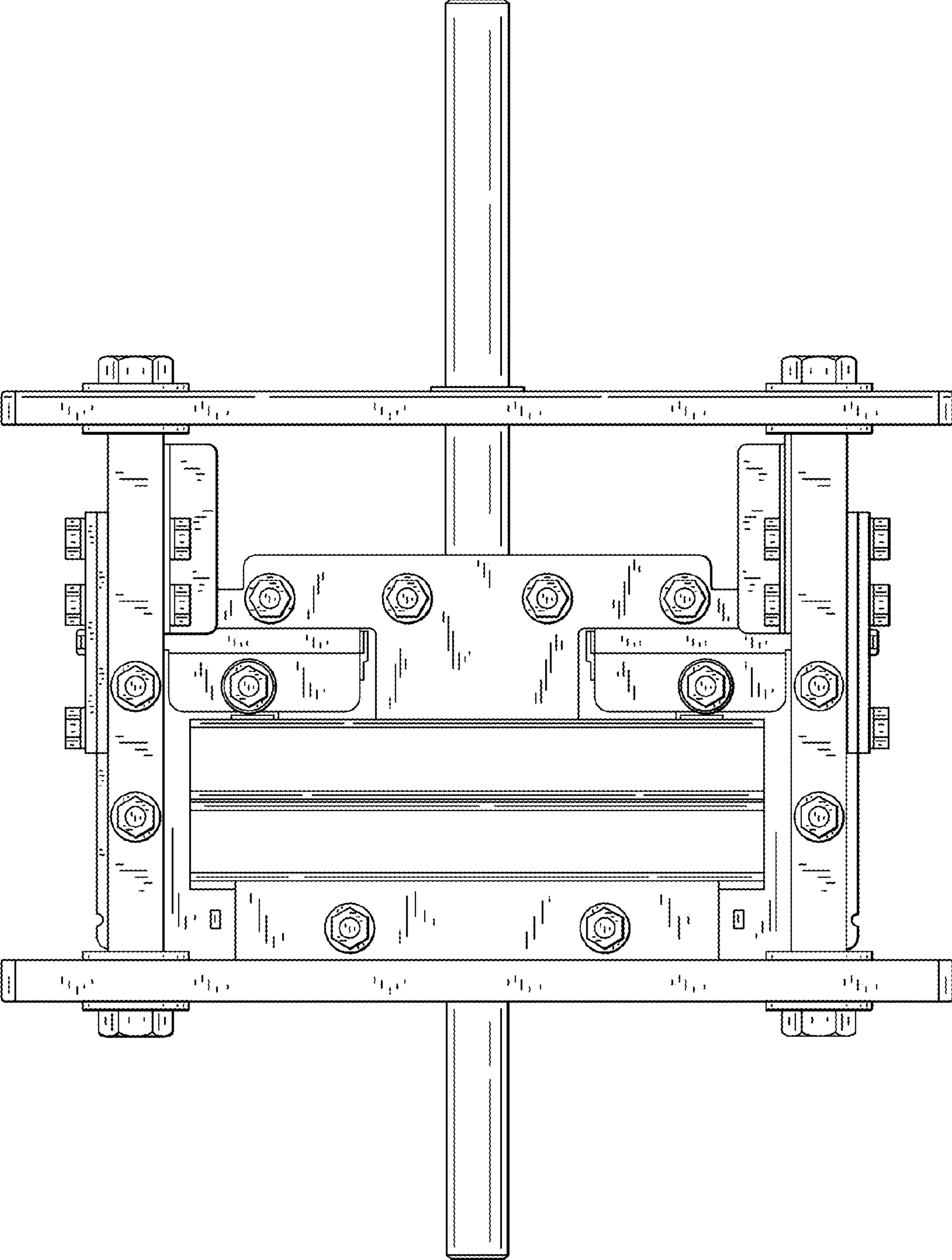


FIG. 4

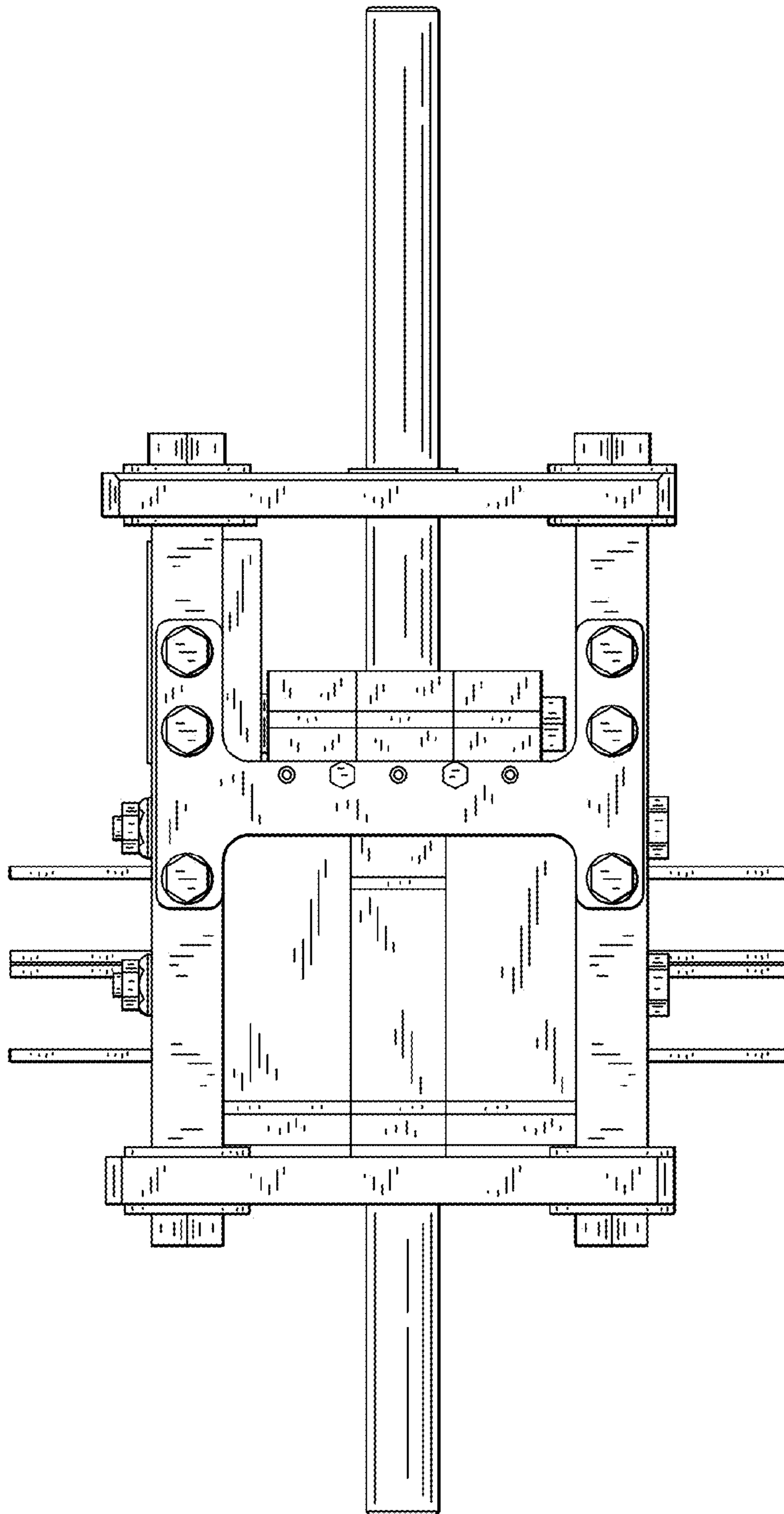


FIG. 5

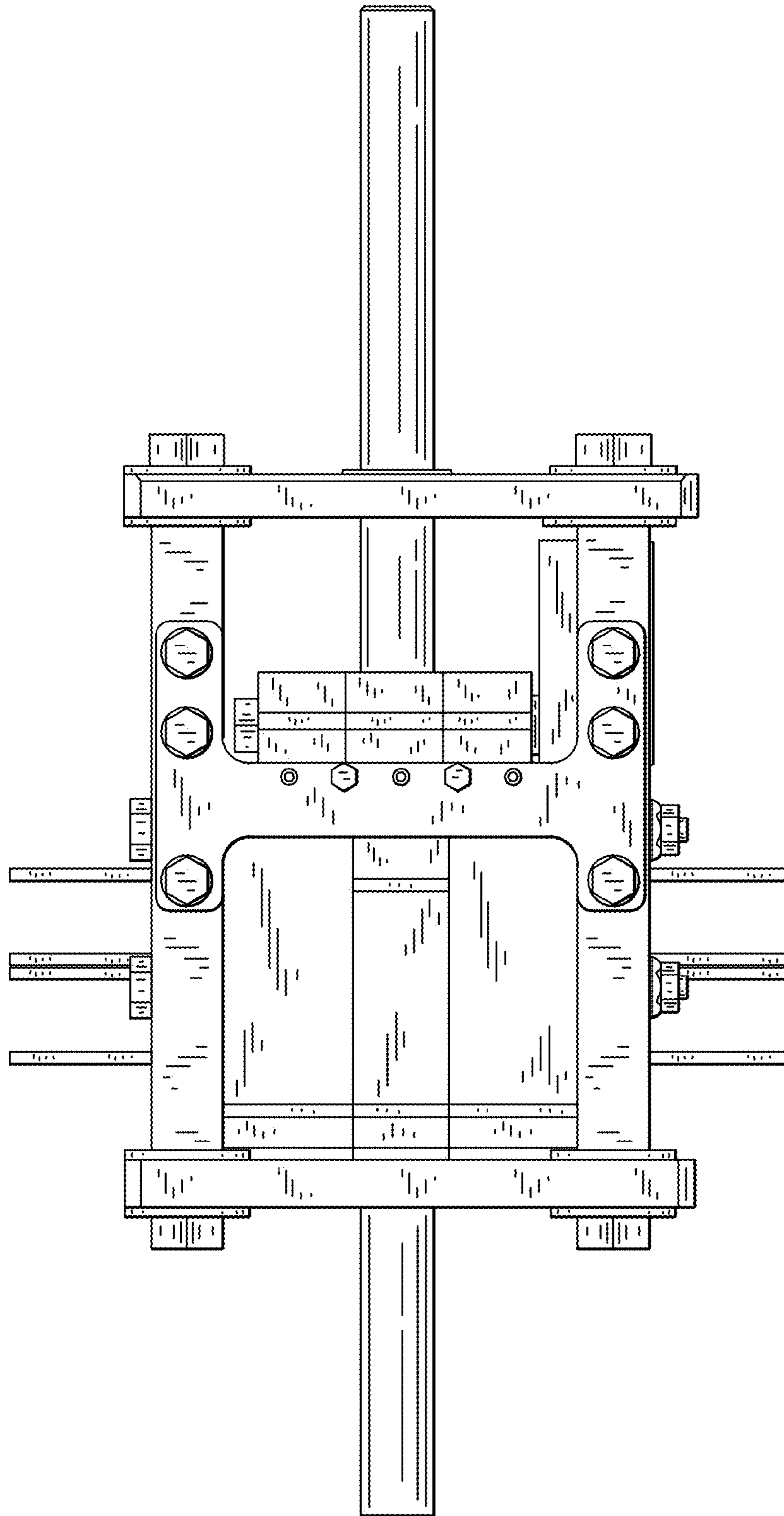


FIG. 6

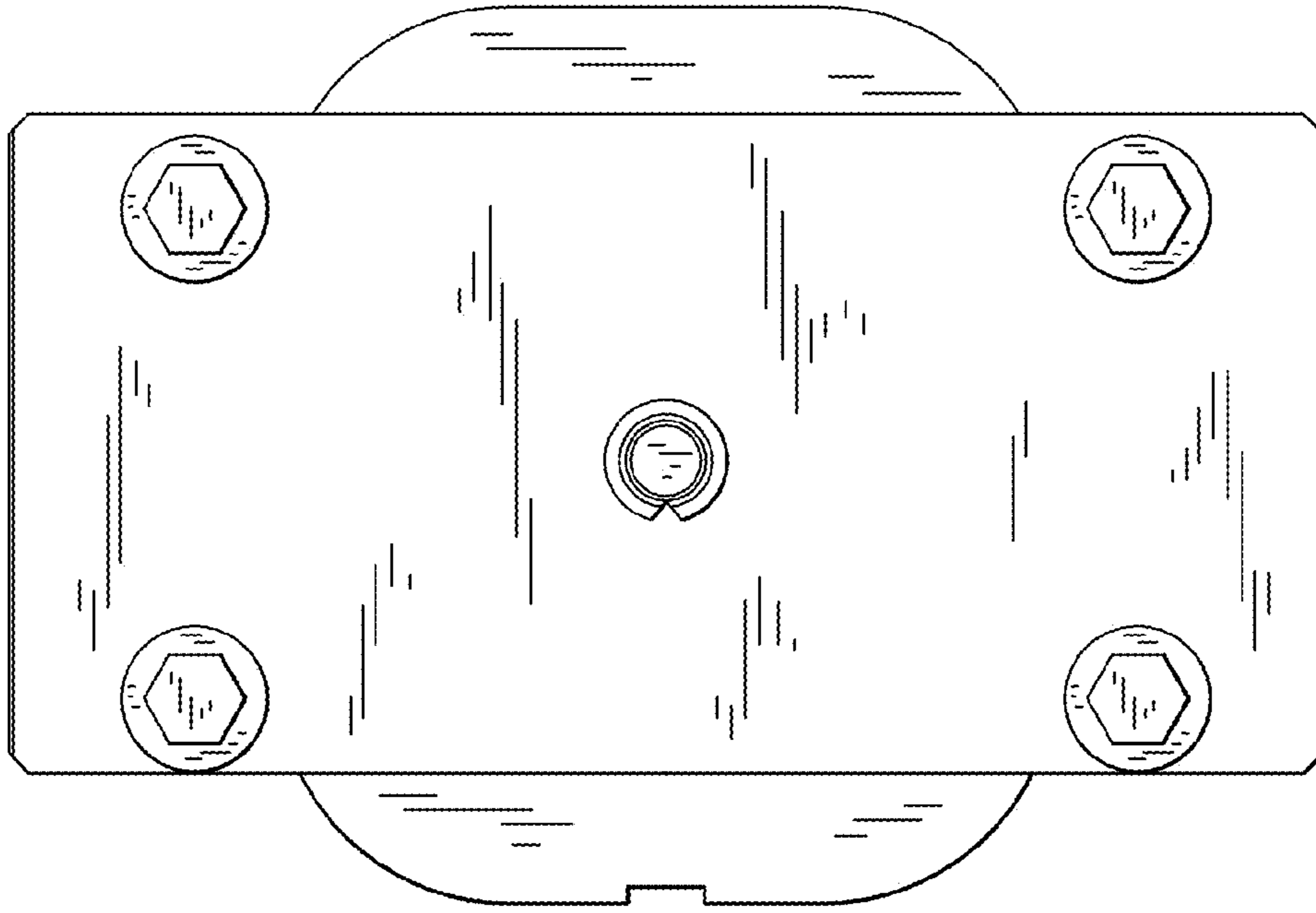


FIG. 7

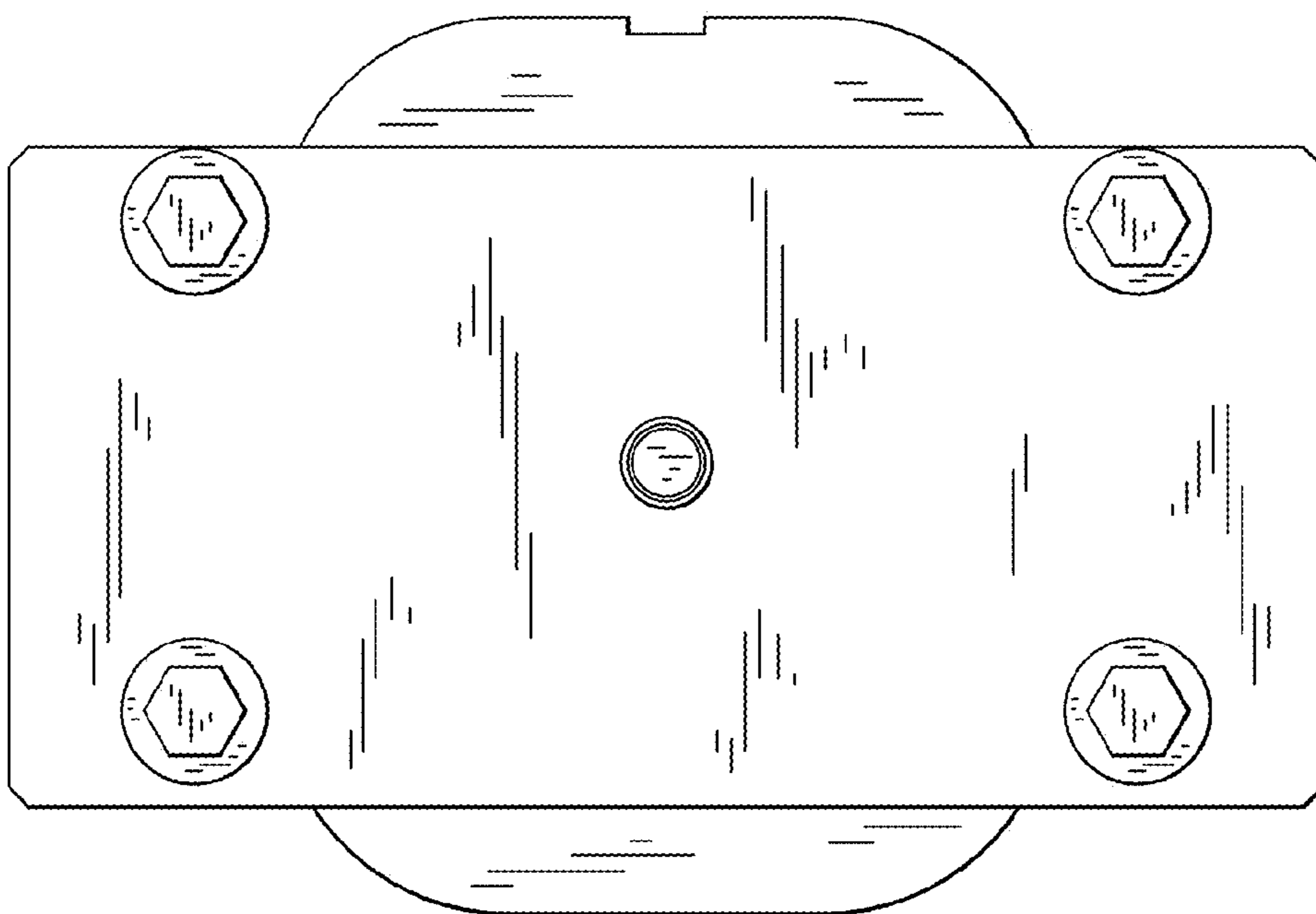


FIG. 8

