



US00D625632S

(12) **United States Design Patent**
Takahara et al.

(10) **Patent No.:** **US D625,632 S**
(45) **Date of Patent:** **** Oct. 19, 2010**

(54) **MULTI OPTICAL AXIS PHOTOELECTRIC SENSOR**

7,759,626 B2 * 7/2010 Kikuchi et al. 250/221
D620,821 S * 8/2010 Driver D10/65

(75) Inventors: **Takayoshi Takahara**, Kusatsu (JP);
Kazunori Osako, Ohtsu (JP); **Ryo Kozawa**, Ritto (JP)

(73) Assignee: **OMRON Corporation**, Kyoto (JP)

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

(21) Appl. No.: **29/342,813**

(22) Filed: **Sep. 1, 2009**

(30) **Foreign Application Priority Data**

Mar. 13, 2009 (JP) 2009-005666

(51) **LOC (9) Cl.** **10-04**

(52) **U.S. Cl.** **D10/70**

(58) **Field of Classification Search** D10/70;
250/214 R, 221, 221.1, 239; 327/514; 340/555,
340/556; 709/209

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D310,041 S * 8/1990 Nagaoka D10/70
7,122,782 B2 * 10/2006 Sakaguchi 250/222.1
7,183,533 B2 * 2/2007 Osako et al. 250/221
7,227,120 B2 * 6/2007 Shimokawa et al. 250/214 R
7,326,910 B2 * 2/2008 Osako et al. 250/221
7,348,537 B2 * 3/2008 Akagi et al. 250/221
7,550,708 B2 * 6/2009 Deguchi 250/221

OTHER PUBLICATIONS

“Safety Light Curtains could 20m Sensing Distance”, Feb. 5, 2008, Omron Co., Ltd., Internet Publication at web site address: <http://www.omron.co.jp/press/2008/01/i0110.html>.

* cited by examiner

Primary Examiner—Antoine D Davis

(74) *Attorney, Agent, or Firm*—Capitol City TechLaw

(57) **CLAIM**

The ornamental design for a multi optical axis photoelectric sensor, as shown and described.

DESCRIPTION

FIG. 1 is a front, top and left side perspective view of a multi optical axis photoelectric sensor showing our new design;

FIG. 2 is a rear, bottom and right side perspective view thereof;

FIG. 3 is a front elevational view thereof;

FIG. 4 is a rear elevational view thereof;

FIG. 5 is a top plan view thereof;

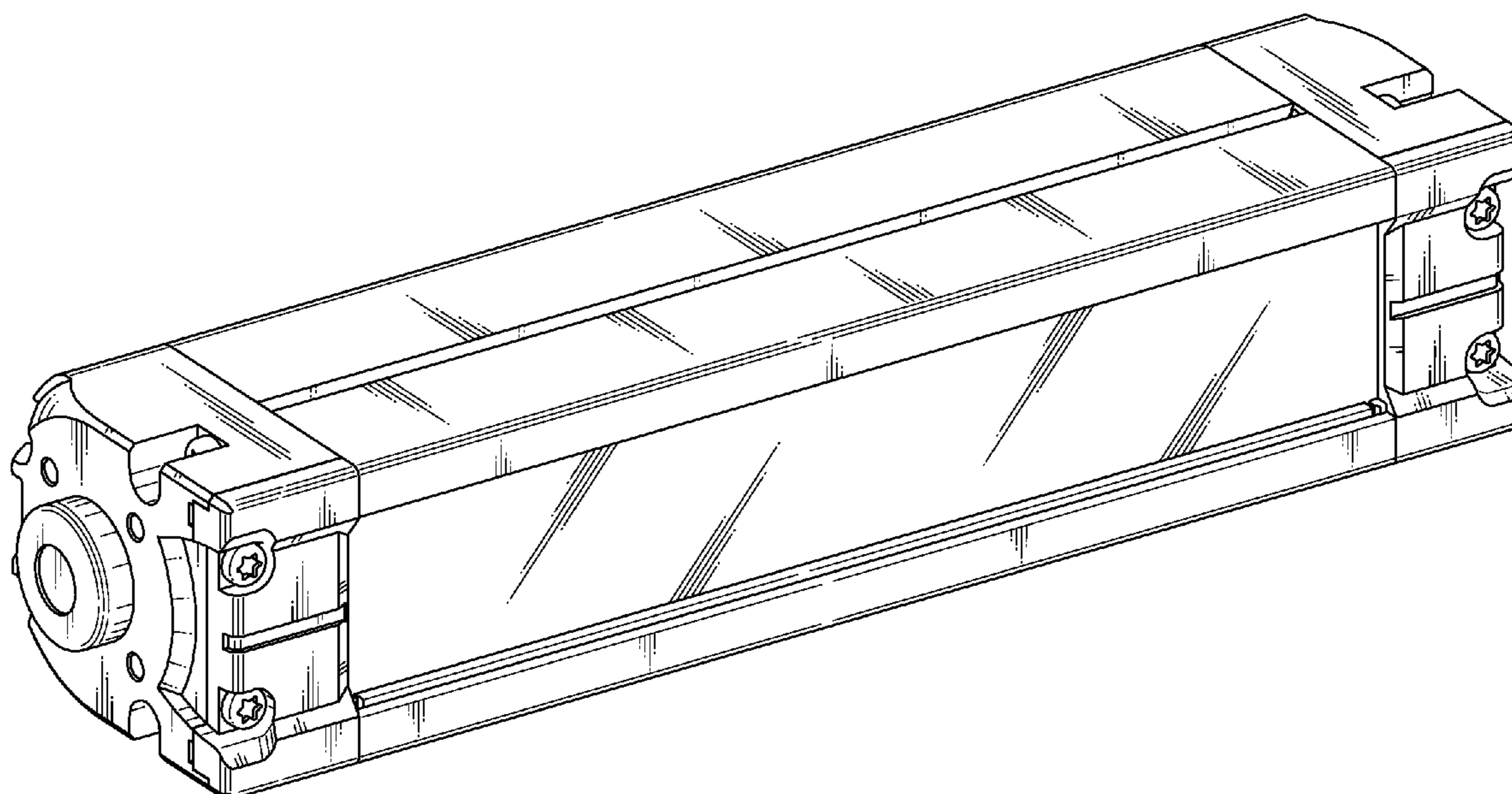
FIG. 6 is a bottom plan view thereof;

FIG. 7 is a left side elevational view thereof;

FIG. 8 is a right side elevational view thereof; and,

FIG. 9 is a front elevational view thereof with lighting condition of the light emitting diodes.

1 Claim, 8 Drawing Sheets



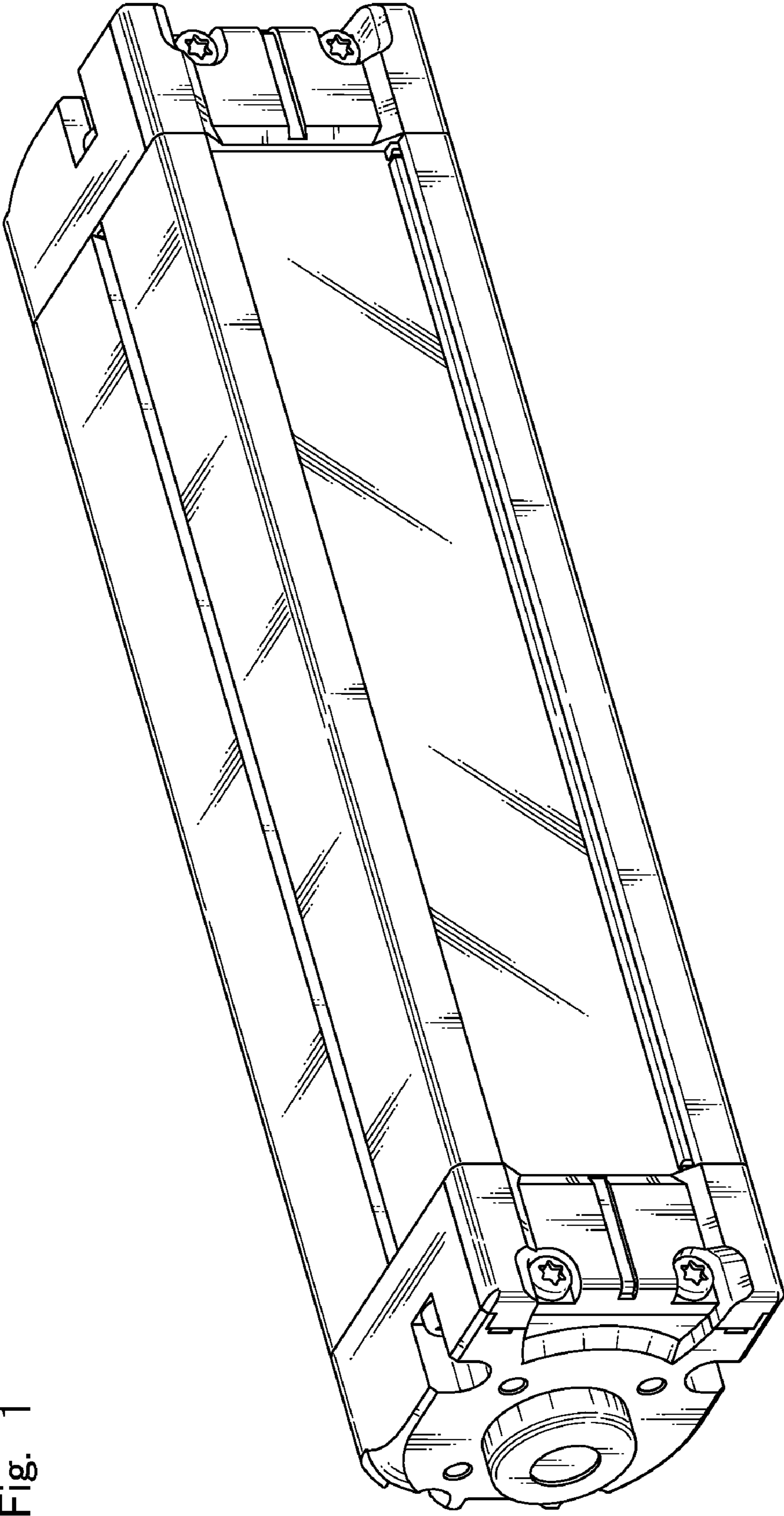


Fig. 1

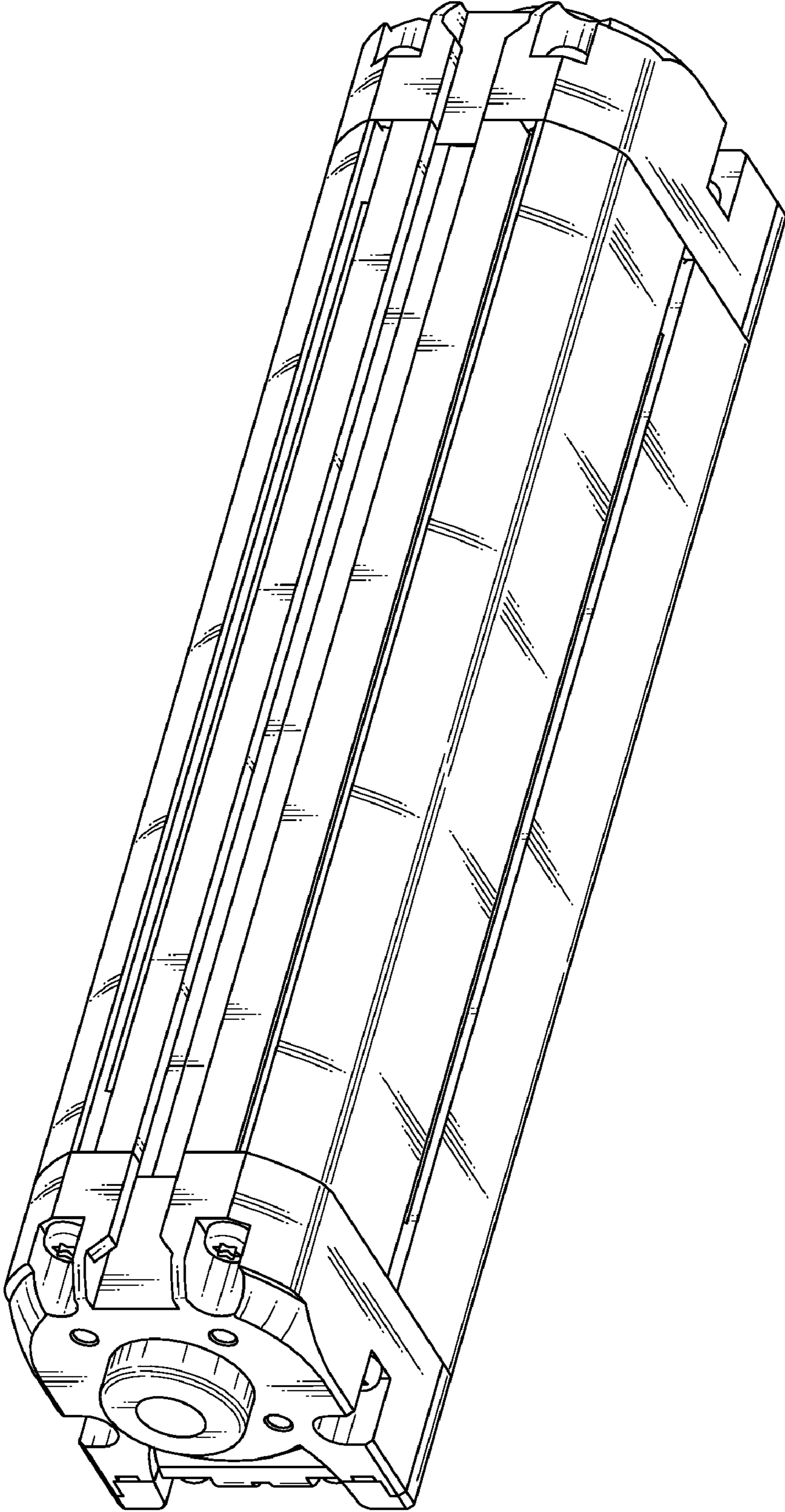


Fig. 2

Fig. 3

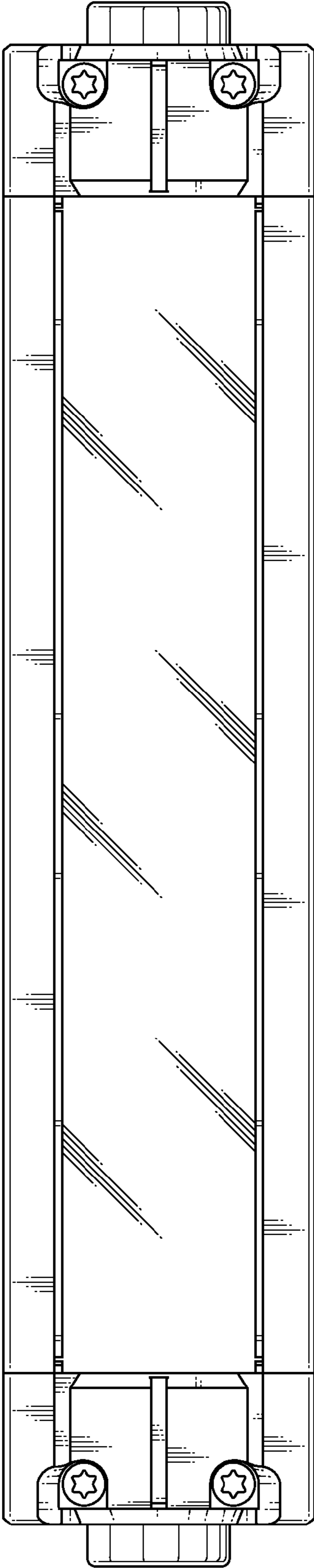
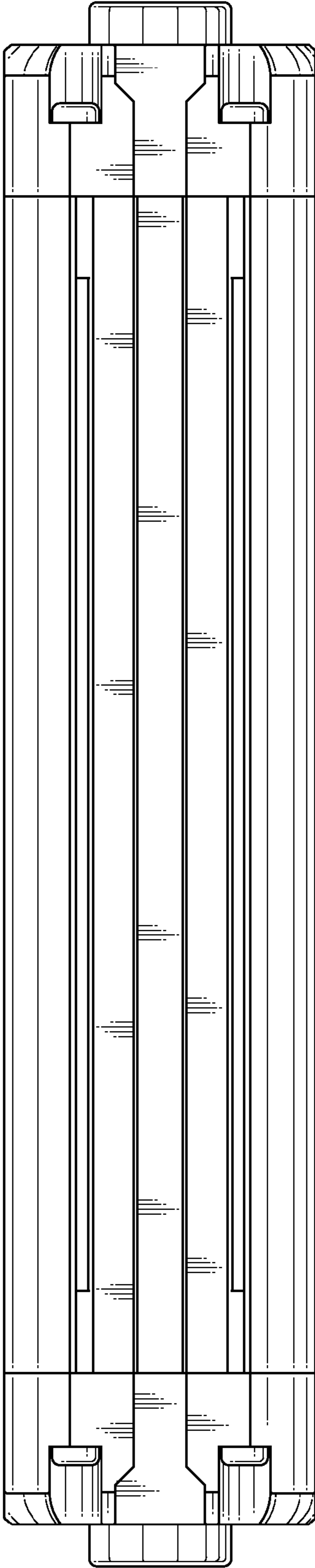


Fig. 4



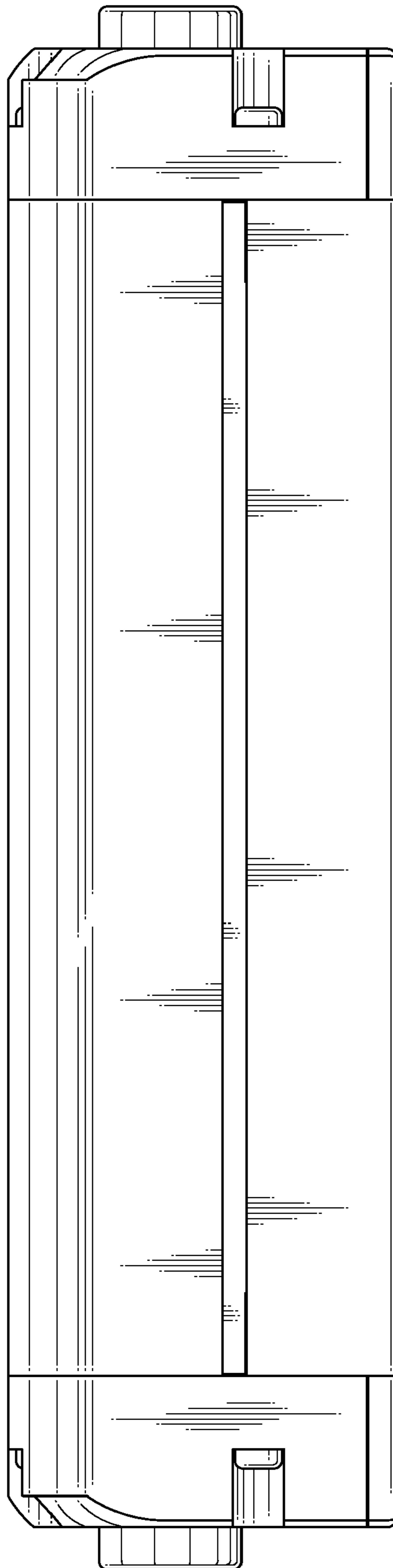


Fig. 5

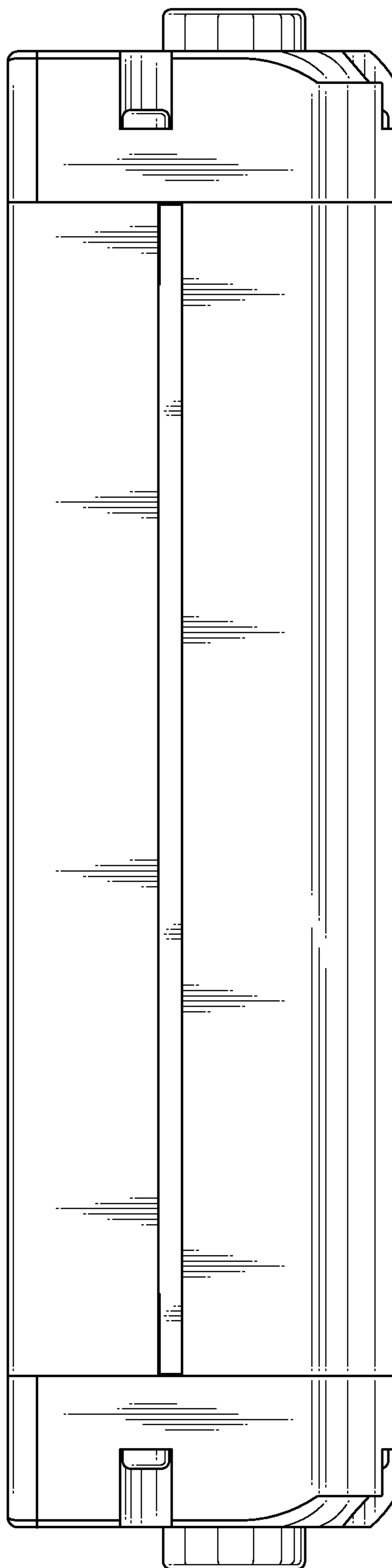
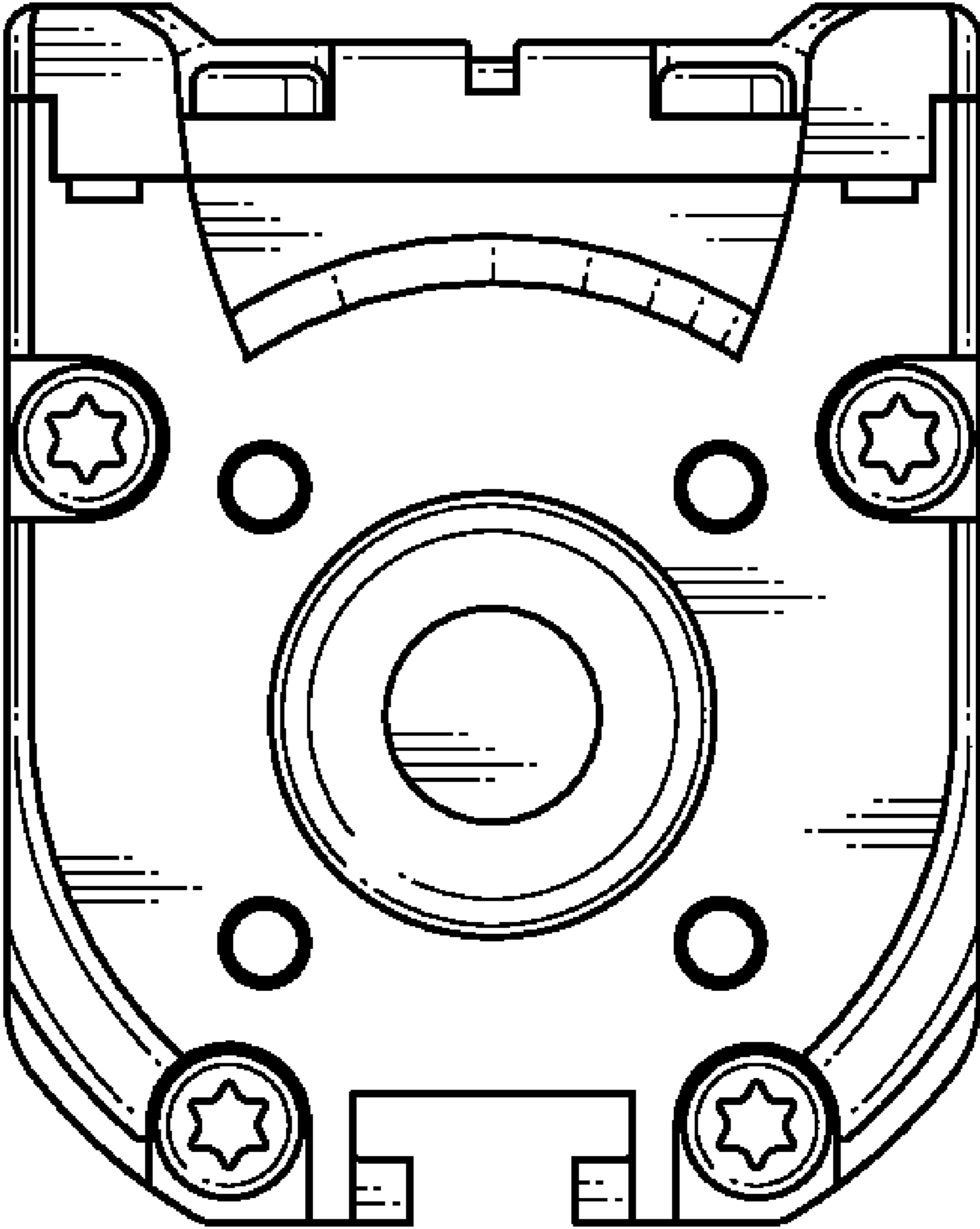


Fig. 6

Fig. 7



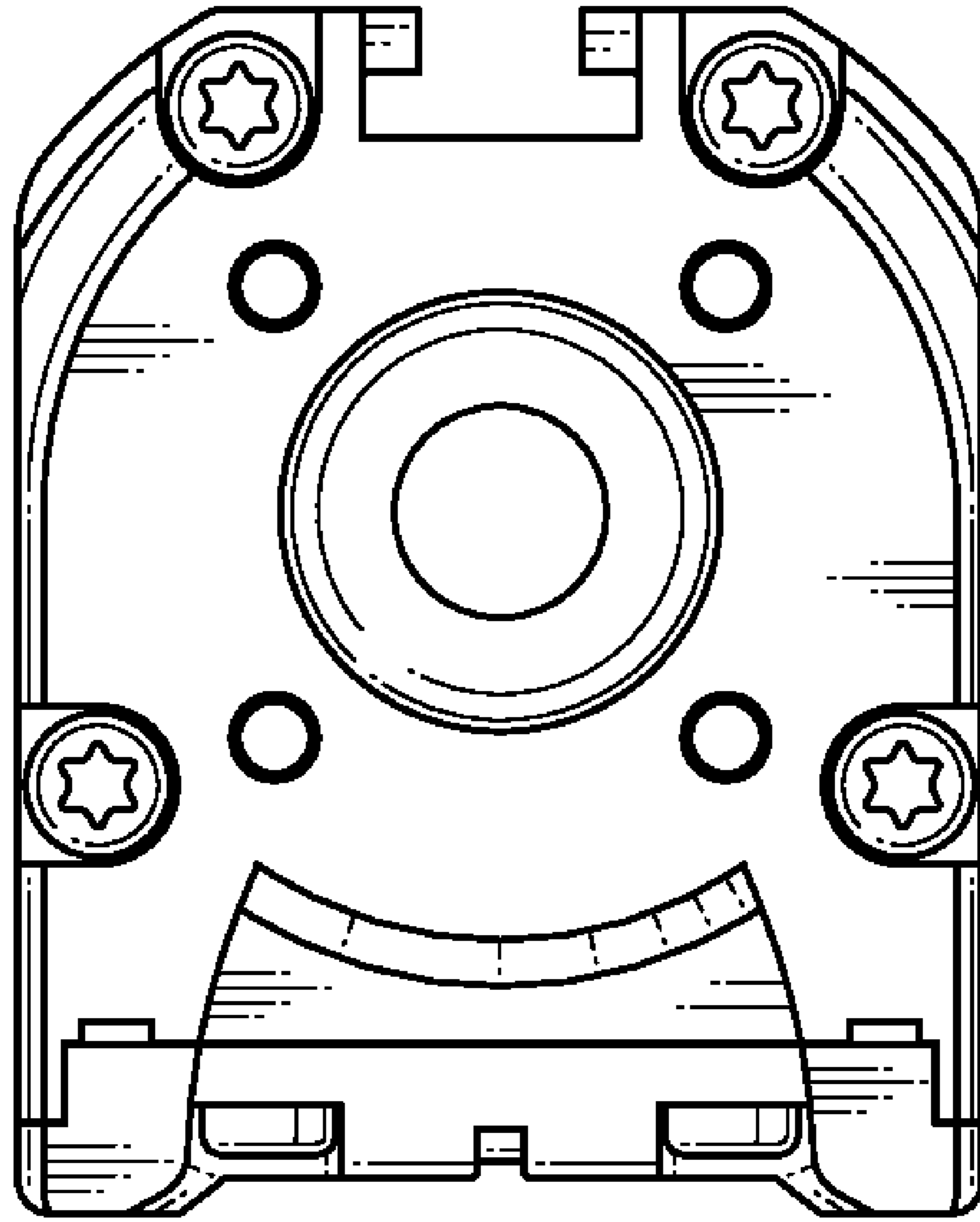


Fig. 8

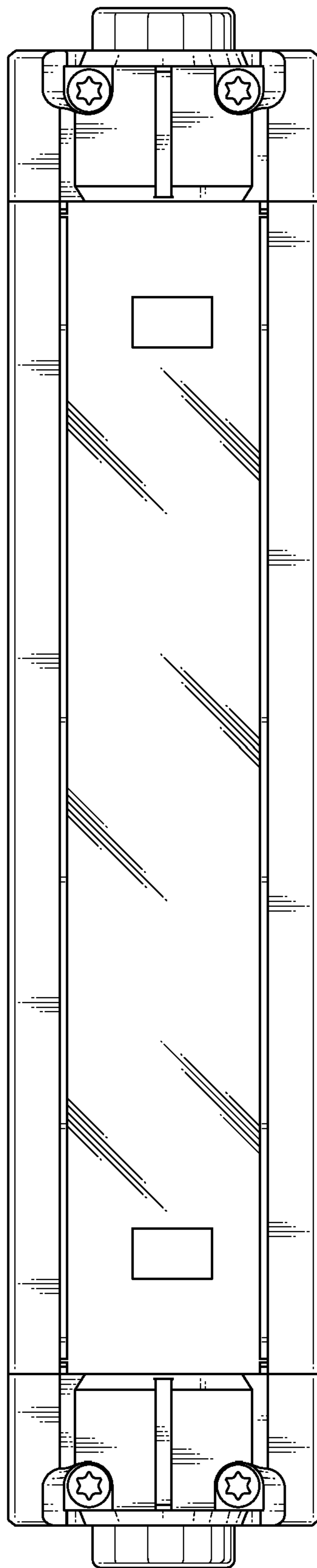


Fig. 9