



US00D726111S

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

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(45) **Date of Patent:** **** Apr. 7, 2015**

(54) **VOLTAGE REGULATOR OF AC GENERATOR
FOR VEHICLE**

(56) **References Cited**

U.S. PATENT DOCUMENTS

(71) Applicant: **Mitsubishi Electric Corporation,**
Tokyo (JP)

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Kazuyuki Iwamoto, Tokyo (JP)

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

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

(21) Appl. No.: **29/476,195**

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(30) **Foreign Application Priority Data**

Sep. 3, 2013 (JP) 2013-020310

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

(52) **U.S. Cl.**
USPC **D13/124**

(58) **Field of Classification Search**

CPC . H02M 7/003; H05K 7/20918; H05K 7/1418;
G02B 6/3897; G02B 6/4453; G06F 1/18;
G06F 1/1632; H04N 5/268; H01H 33/66;
H02K 11/046; H02K 19/365; H02K 5/225
USPC D12/332; D13/101, 107, 110–112, 114,
D13/117, 118, 120, 122–128, 133, 158–160,
D13/164, 167, 184, 199; D14/125, 142,
D14/240, 348, 353, 358; D15/5, 138, 143;
D21/330; D23/200, 207; 290/31, 36 R,
290/38 R; 310/10, 40 R, 40.5; 361/66, 605,
361/612; 218/2, 77–79, 102, 118

See application file for complete search history.

D509,152 S * 9/2005 Morikawa et al. D10/52
D509,452 S * 9/2005 Morikawa et al. D10/52
D602,867 S * 10/2009 Miyaji et al. D13/124
8,022,585 B2 * 9/2011 Oohashi 310/68 D
D678,195 S * 3/2013 Bole et al. D13/122
8,415,816 B2 * 4/2013 Iwamoto et al. 290/31
D709,830 S * 7/2014 Tanaka et al. D13/122
2014/0022729 A1 * 1/2014 Di Risio et al. 361/704

* cited by examiner

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(57) **CLAIM**

The ornamental design for a voltage regulator of AC genera-
tor for vehicle, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of the front, right, and top side of
a voltage regulator of AC generator for vehicle showing our
new design;

FIG. 2 is a front view thereof;

FIG. 3 is a rear view thereof;

FIG. 4 is a left side view thereof;

FIG. 5 is a right side view thereof;

FIG. 6 is a top plan view thereof; and,

FIG. 7 is a bottom view thereof.

The broken line portion of the figure drawings is included to
show unclaimed subject matter only and forms no part of the
claimed design.

1 Claim, 4 Drawing Sheets

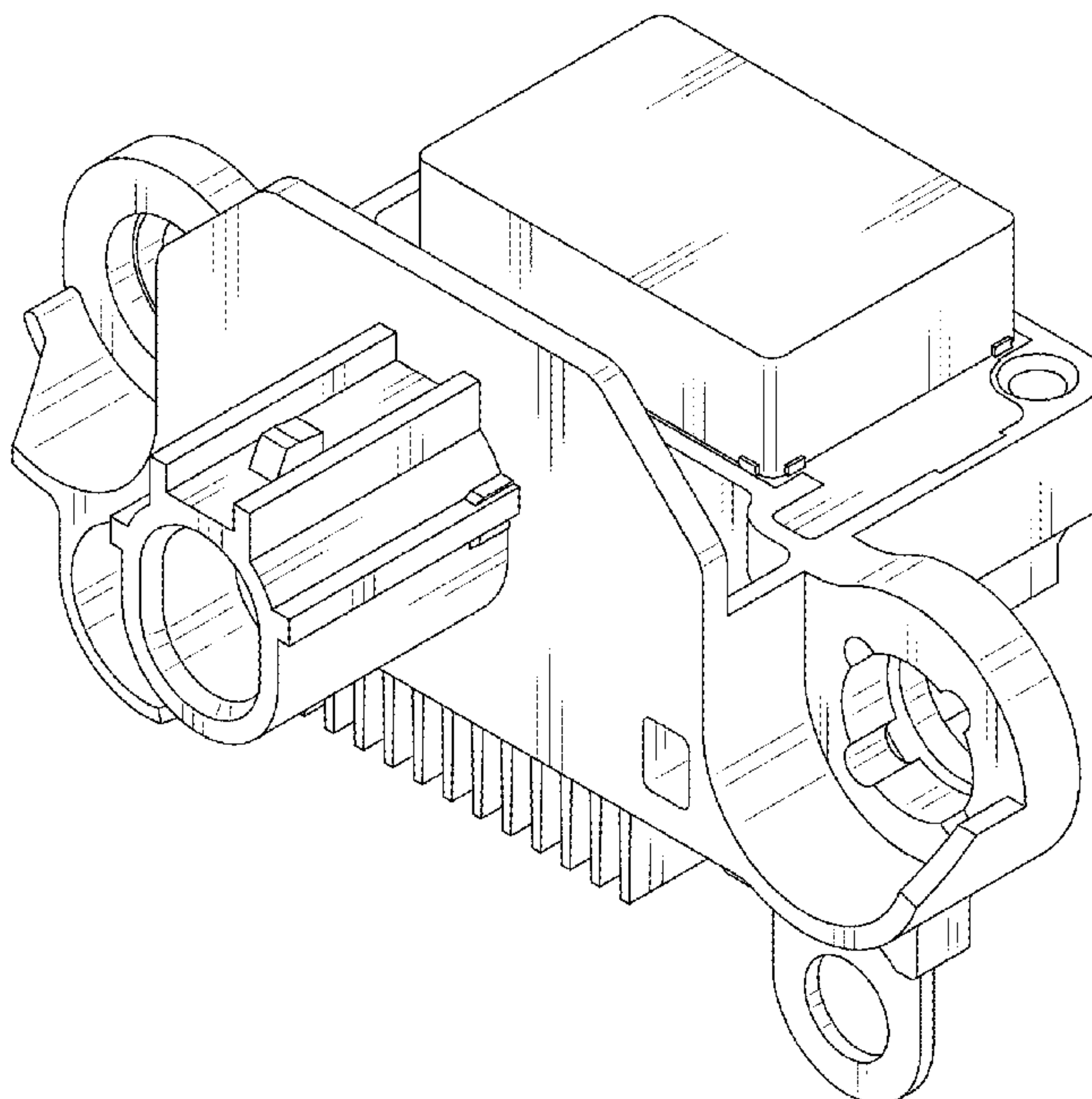


Fig. 1

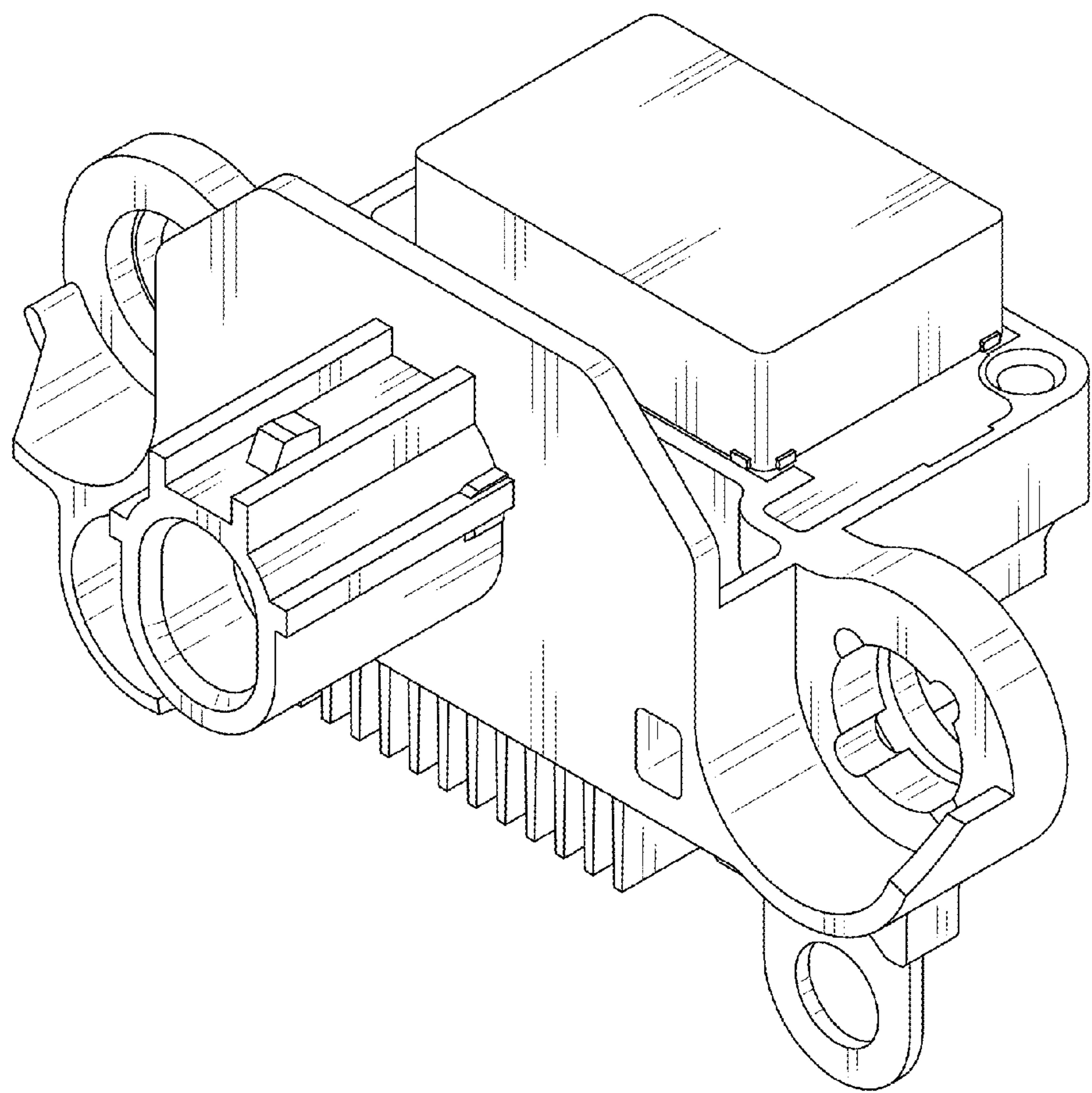


Fig. 2

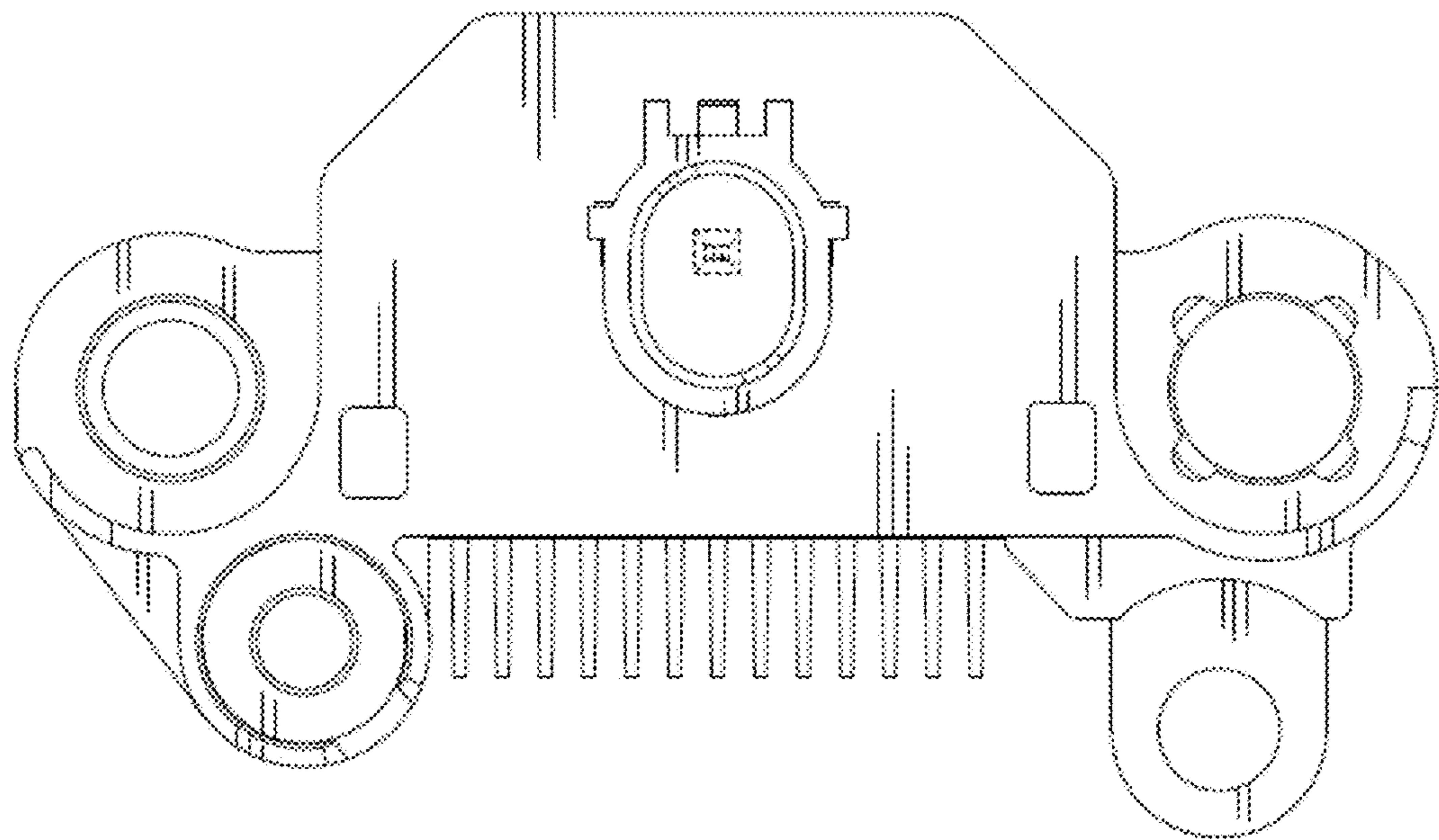


Fig. 3

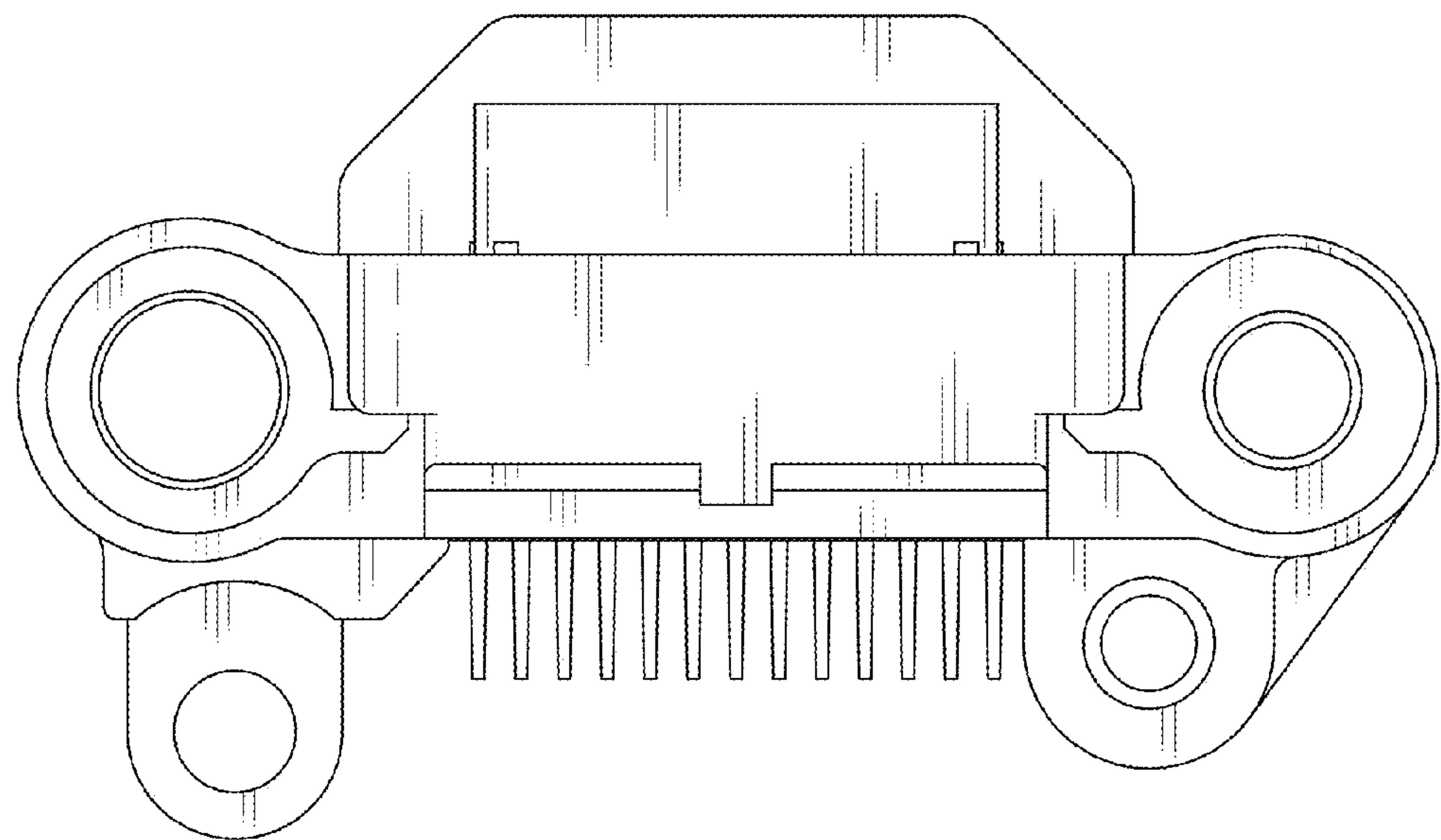


Fig. 4

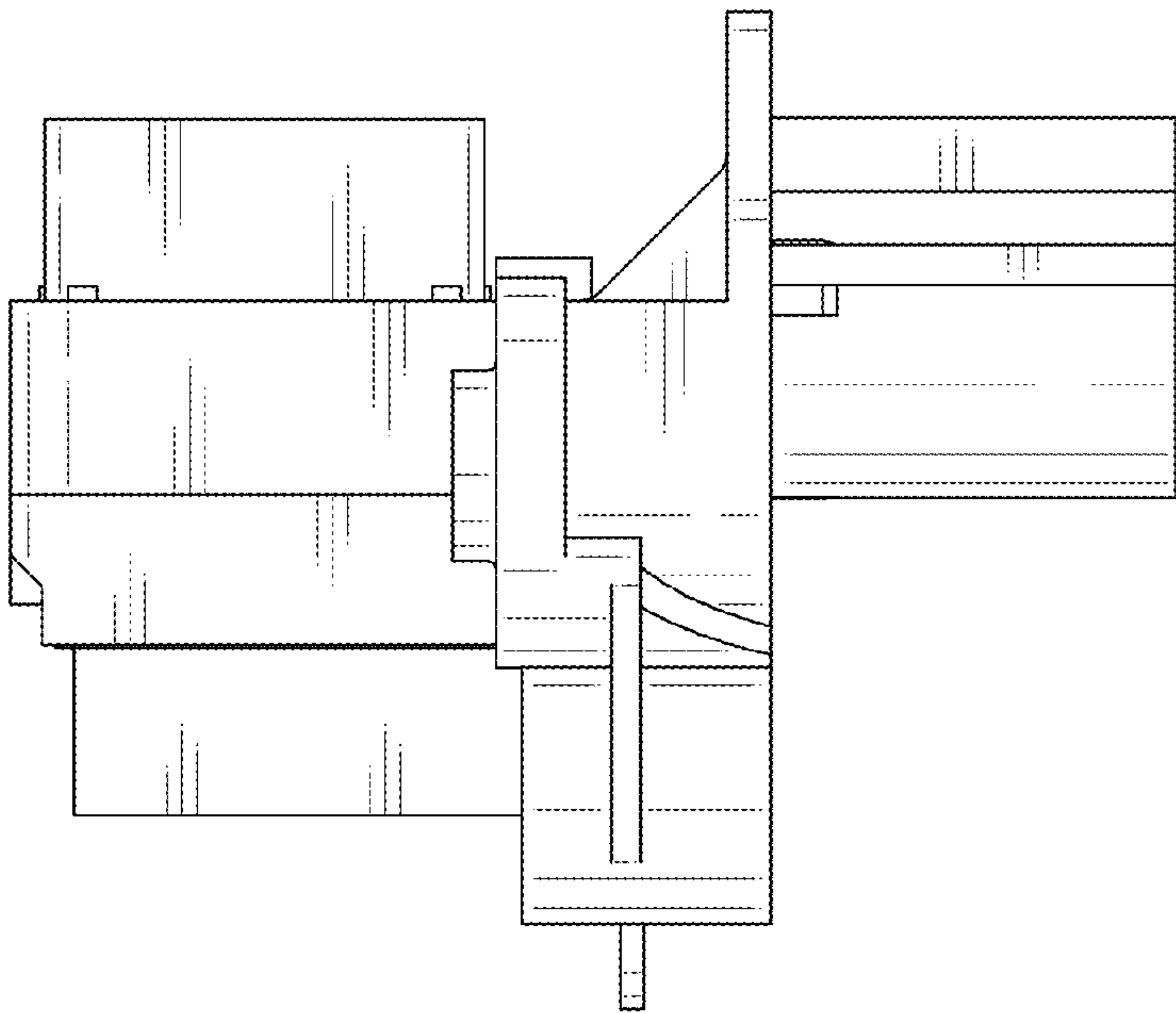


Fig. 5

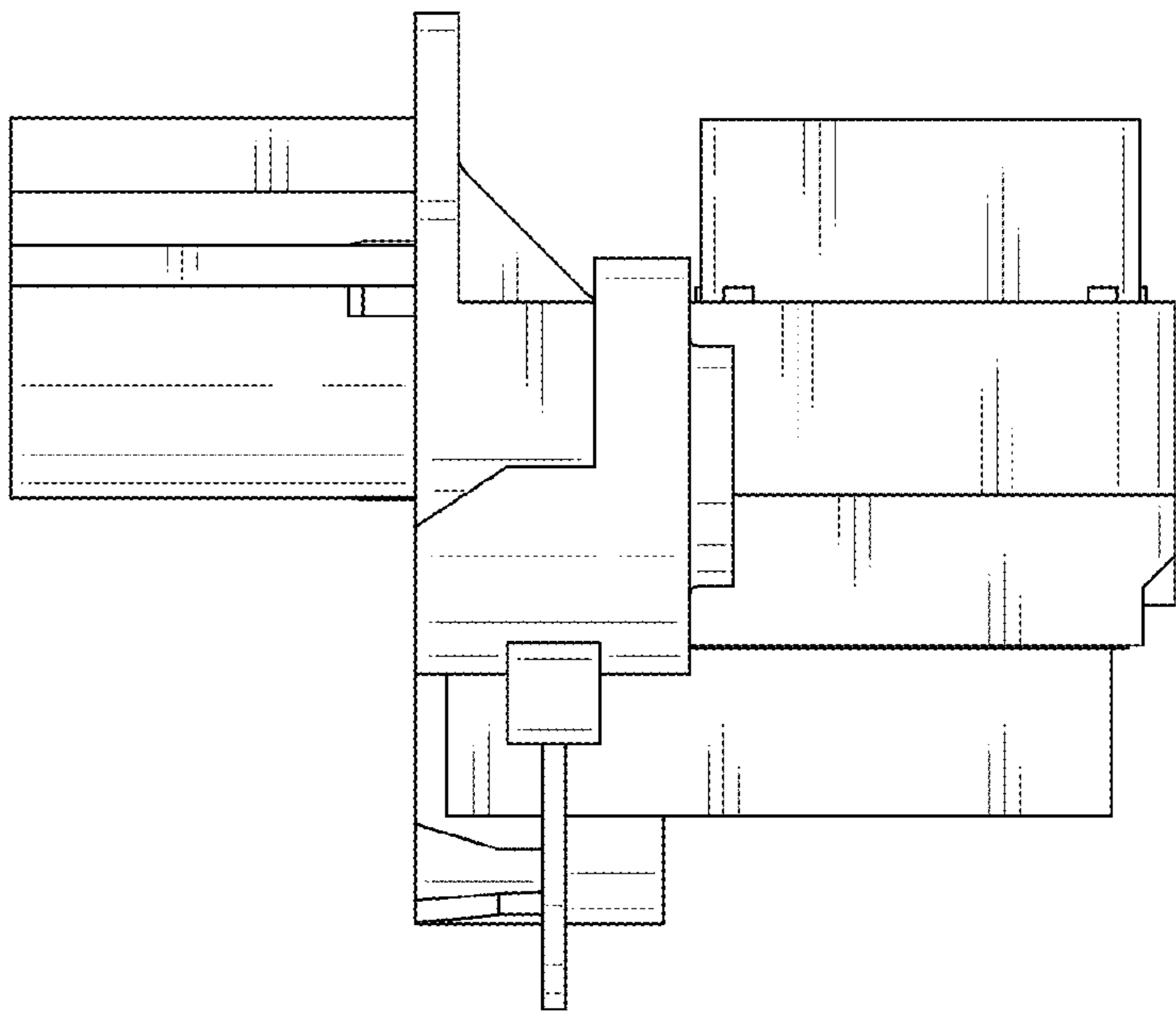


Fig. 6

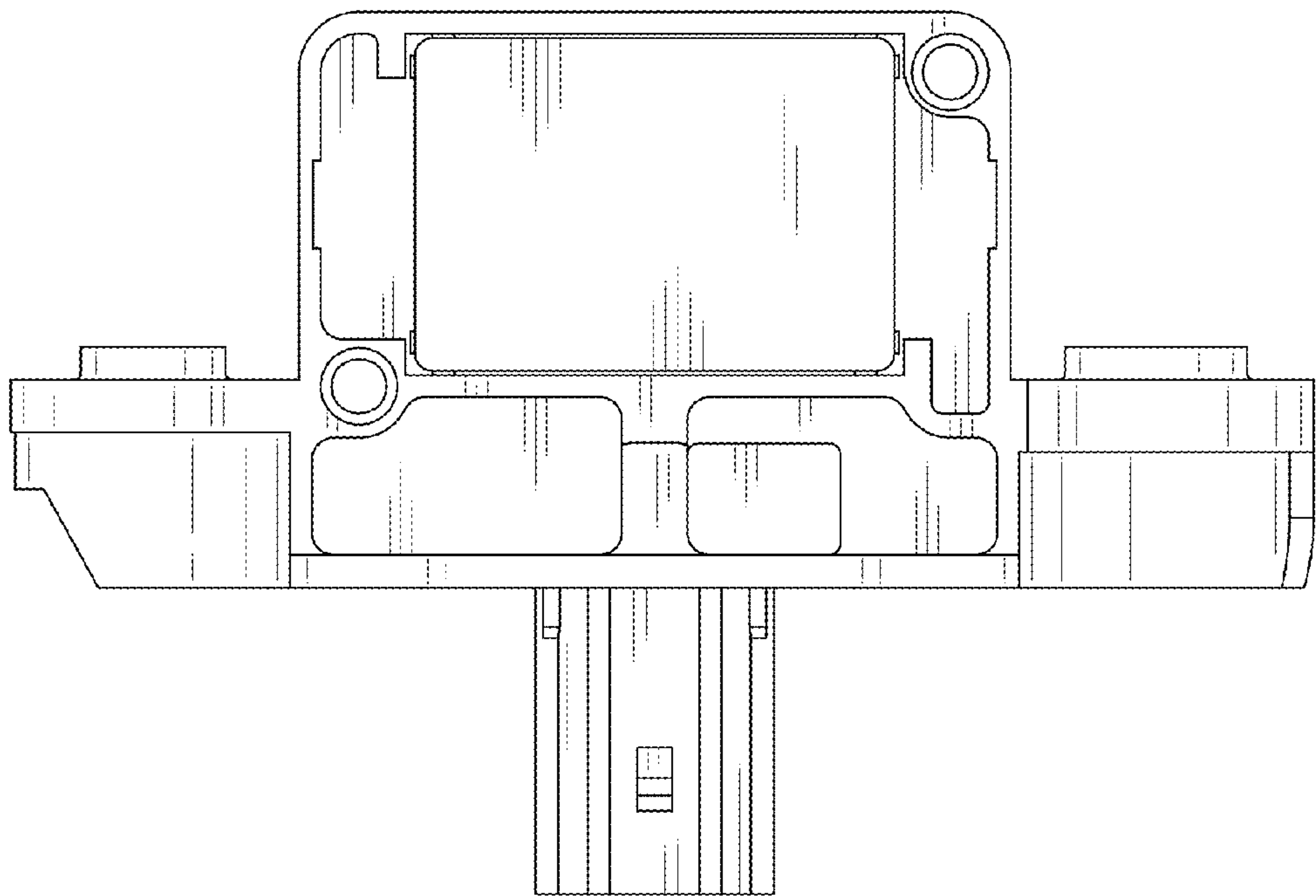


Fig. 7

