



US00D779561S

(12) **United States Design Patent**
Fox

(10) **Patent No.:** **US D779,561 S**
(45) **Date of Patent:** **** Feb. 21, 2017**

- (54) **HYDRAULIC CONTROL UNIT**
- (71) Applicant: **Eaton Corporation**, Cleveland, OH (US)
- (72) Inventor: **Matthew G. Fox**, Ceresco, MI (US)
- (73) Assignee: **Eaton Corporation**, Cleveland, OH (US)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/535,729**
- (22) Filed: **Aug. 10, 2015**

8,226,382 B2 7/2012 Vogt
 8,485,802 B2 7/2013 Bachmann et al.
 2001/0035323 A1 11/2001 Porter
 (Continued)

FOREIGN PATENT DOCUMENTS

DE 748353 11/1944
 DE 3524615 A1 1/1987
 (Continued)

Primary Examiner — T. Chase Nelson
Assistant Examiner — Ania Aman
 (74) *Attorney, Agent, or Firm* — Remarck Law Group PLC

Related U.S. Application Data

- (63) Continuation-in-part of application No. 29/533,526, filed on Jul. 17, 2015.
- (51) **LOC (10) Cl.** **15-01**
- (52) **U.S. Cl.**
USPC **D15/5**
- (58) **Field of Classification Search**
USPC D15/5, 7, 8, 9, 148, 149, 199; D23/231, D23/232; D12/160, 159
CPC F15B 11/162; F15B 11/26; F15B 13/044; F15B 13/026; F15B 2211/781; F16H 39/40
See application file for complete search history.

(57) **CLAIM**

The ornamental design for a hydraulic control unit, as shown and described.

DESCRIPTION

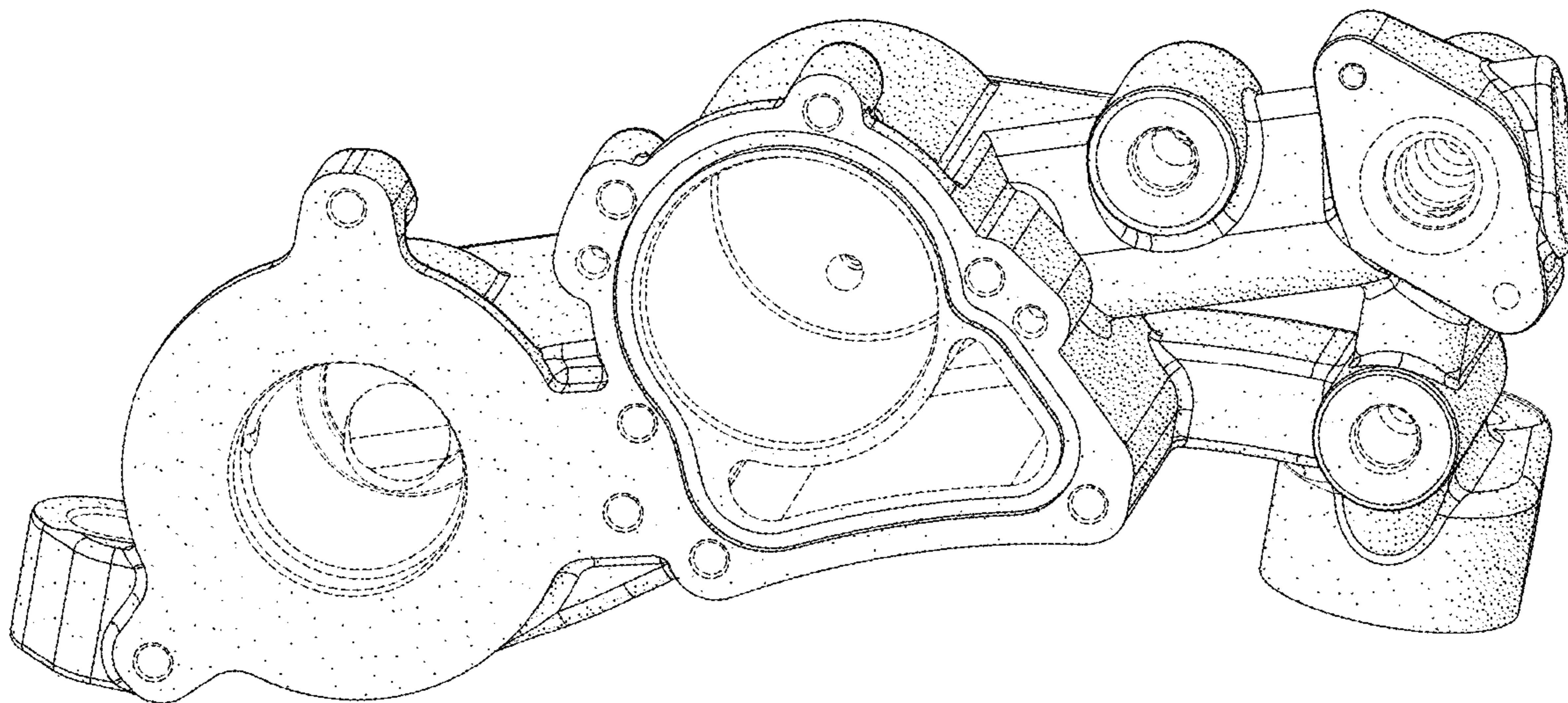
FIG. 1 is a front perspective view of a hydraulic control unit showing the new design.
 FIG. 2 is a rear perspective view of the hydraulic control unit of FIG. 1.
 FIG. 3 is a first end view of the hydraulic control unit of FIG. 1.
 FIG. 4 is a second end view of the hydraulic control unit of FIG. 1.
 FIG. 5 is a top view of the hydraulic control unit of FIG. 1.
 FIG. 6 is a bottom view of the hydraulic control unit of FIG. 1.
 FIG. 7 is a first side view of the hydraulic control unit of FIG. 1; and,
 FIG. 8 is a second side view of the hydraulic control unit of FIG. 1.
 Any portion of the hydraulic control unit shown in broken lines is for the purpose of illustrating environmental structure and forms no part of the claimed design.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,679,463 A 7/1987 Ozaki et al.
 D308,209 S * 5/1990 Laqua D15/7
 6,685,437 B2 2/2004 Koenig et al.
 7,857,723 B2 * 12/2010 Krisher B60K 17/20 475/150
 7,891,730 B2 * 2/2011 Rikkert B60J 7/0573 296/220.01
 7,895,837 B2 3/2011 Bass

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

2011/0147111 A1* 6/2011 Sun B62D 5/0406
180/444
2012/0329592 A1* 12/2012 Sun B62D 5/0406
475/4
2014/0179484 A1* 6/2014 Fox F16H 48/32
475/231
2016/0076634 A1* 3/2016 Mitsubori F16H 57/0006
74/325

FOREIGN PATENT DOCUMENTS

DE 102009038377 A1 3/2010
EP 1118800 A2 7/2001
WO 2008008705 A2 1/2008
WO 2015026411 A2 2/2015

* cited by examiner

FIG. 1

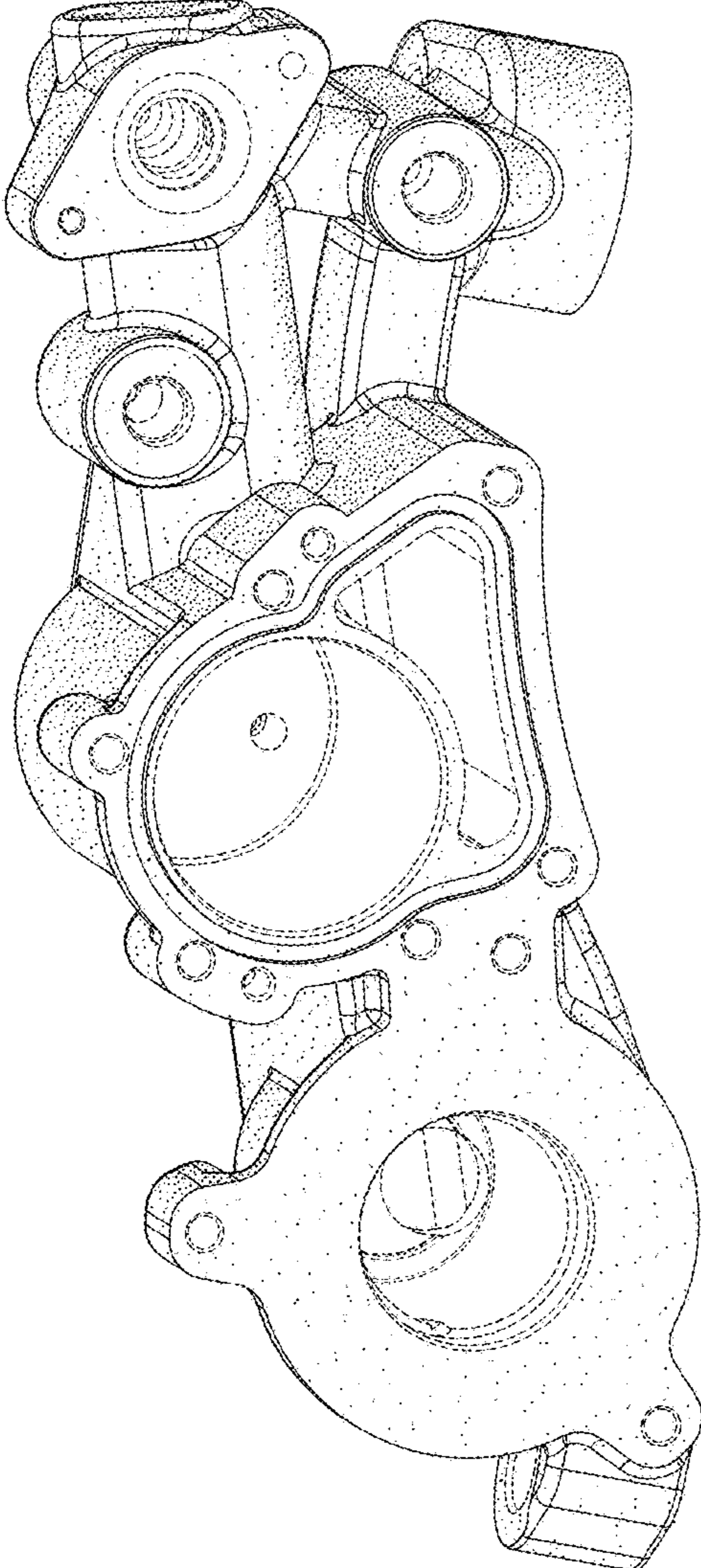
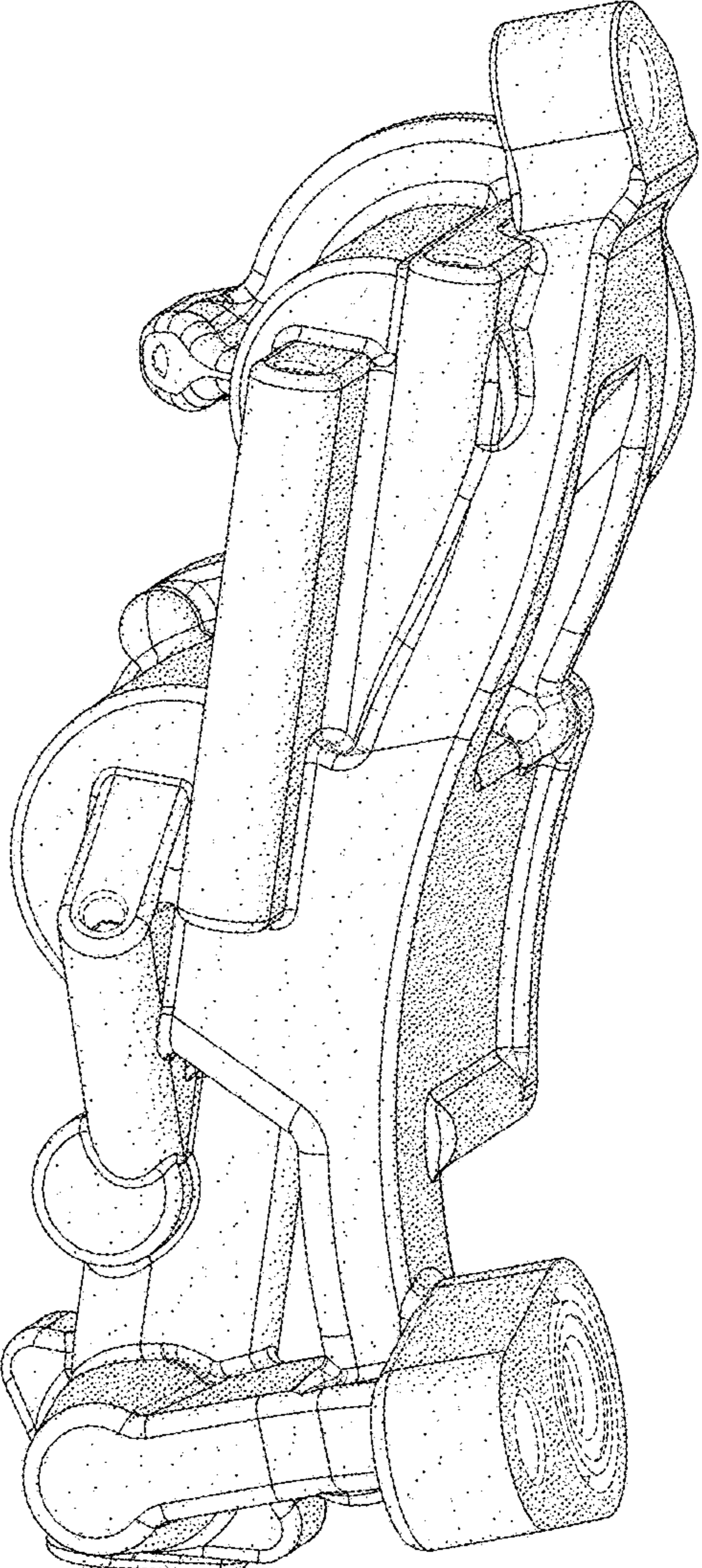


FIG. 2



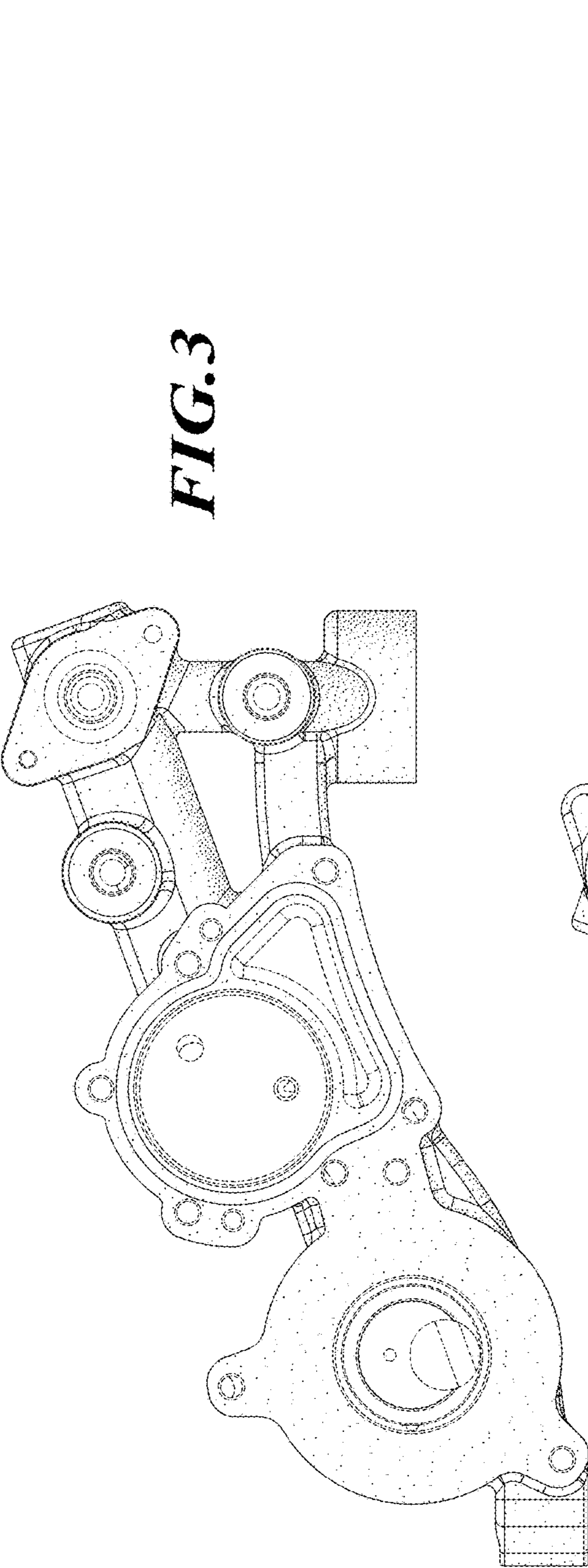


FIG. 3

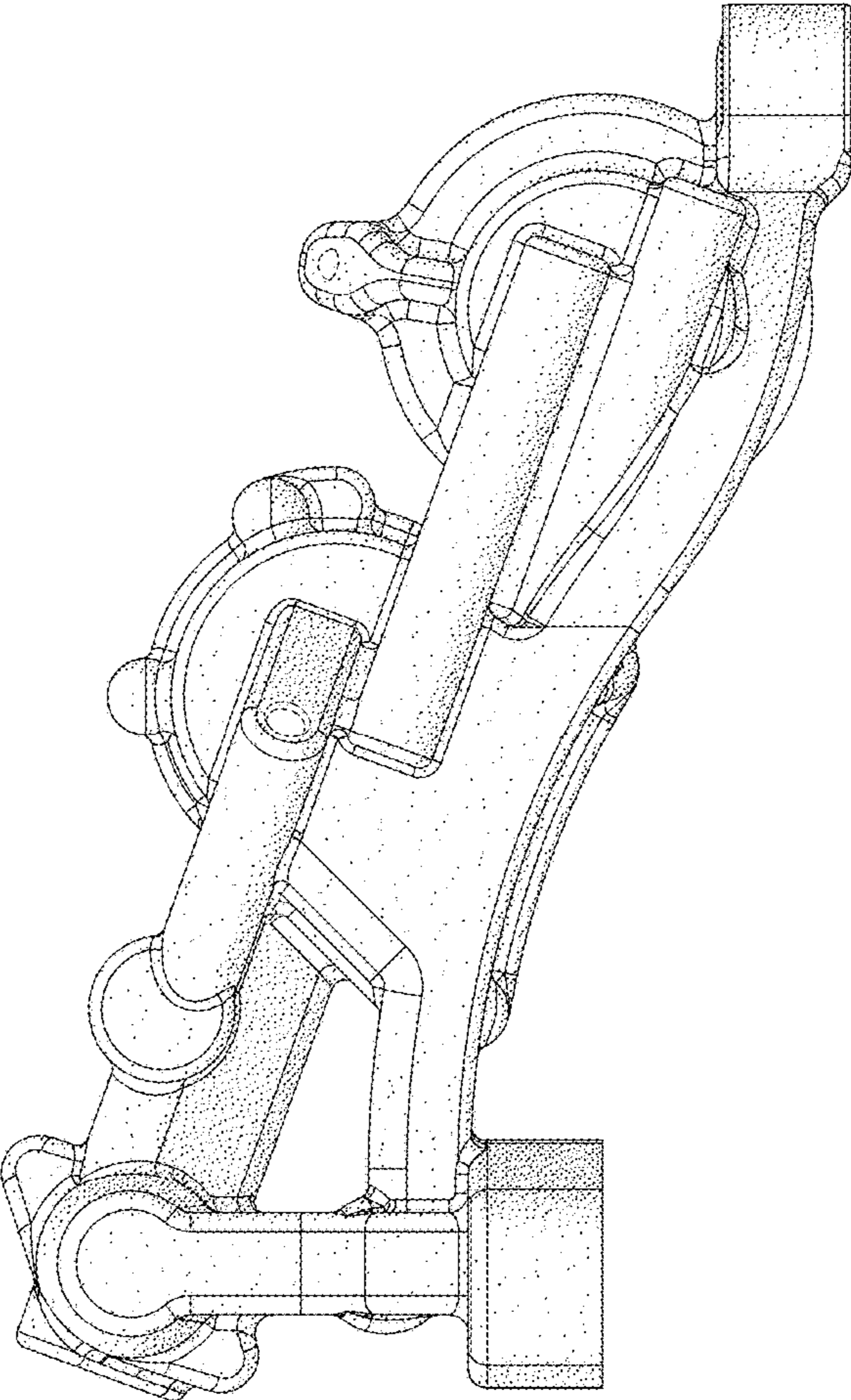


FIG. 4

FIG. 5

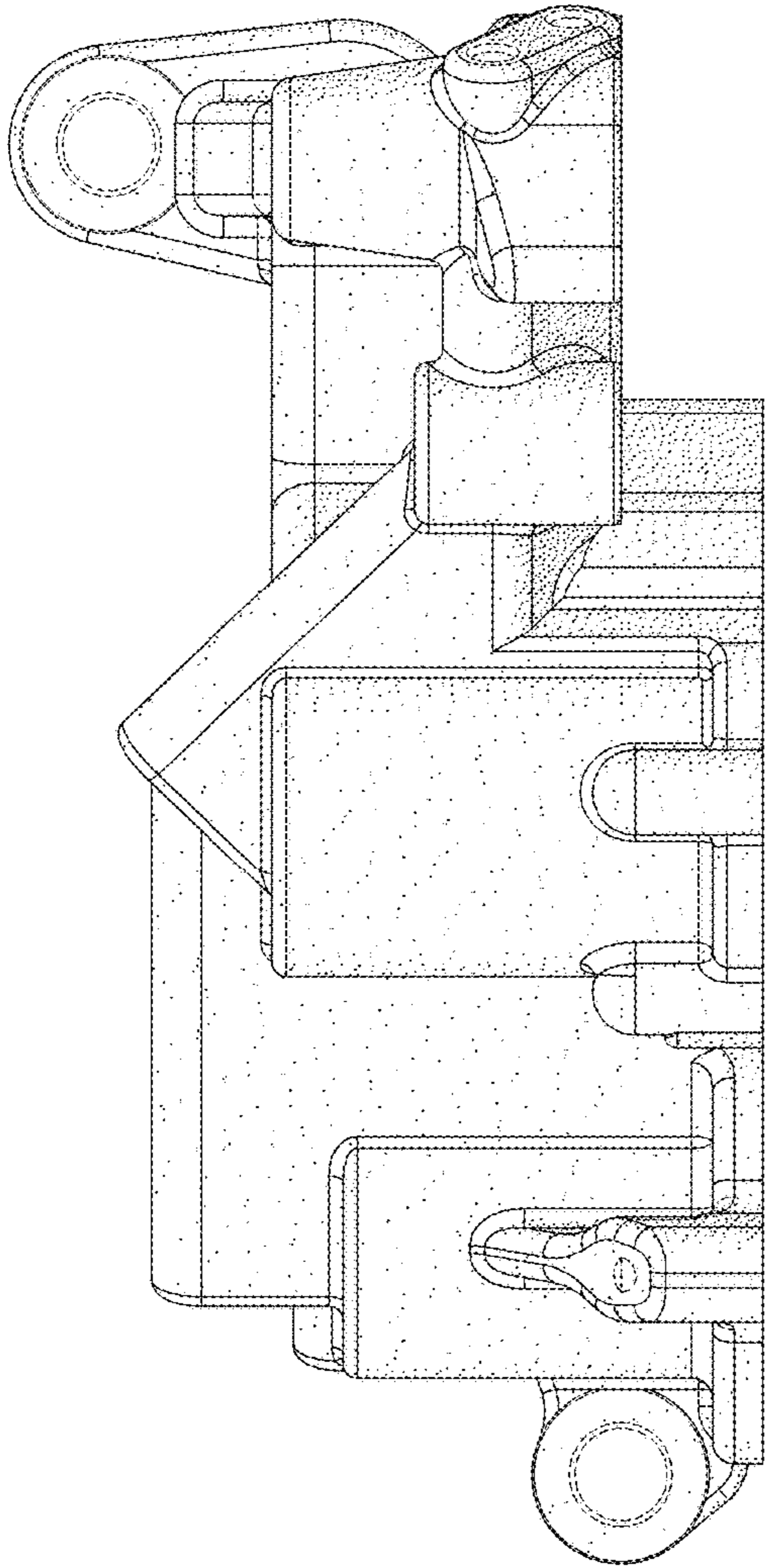
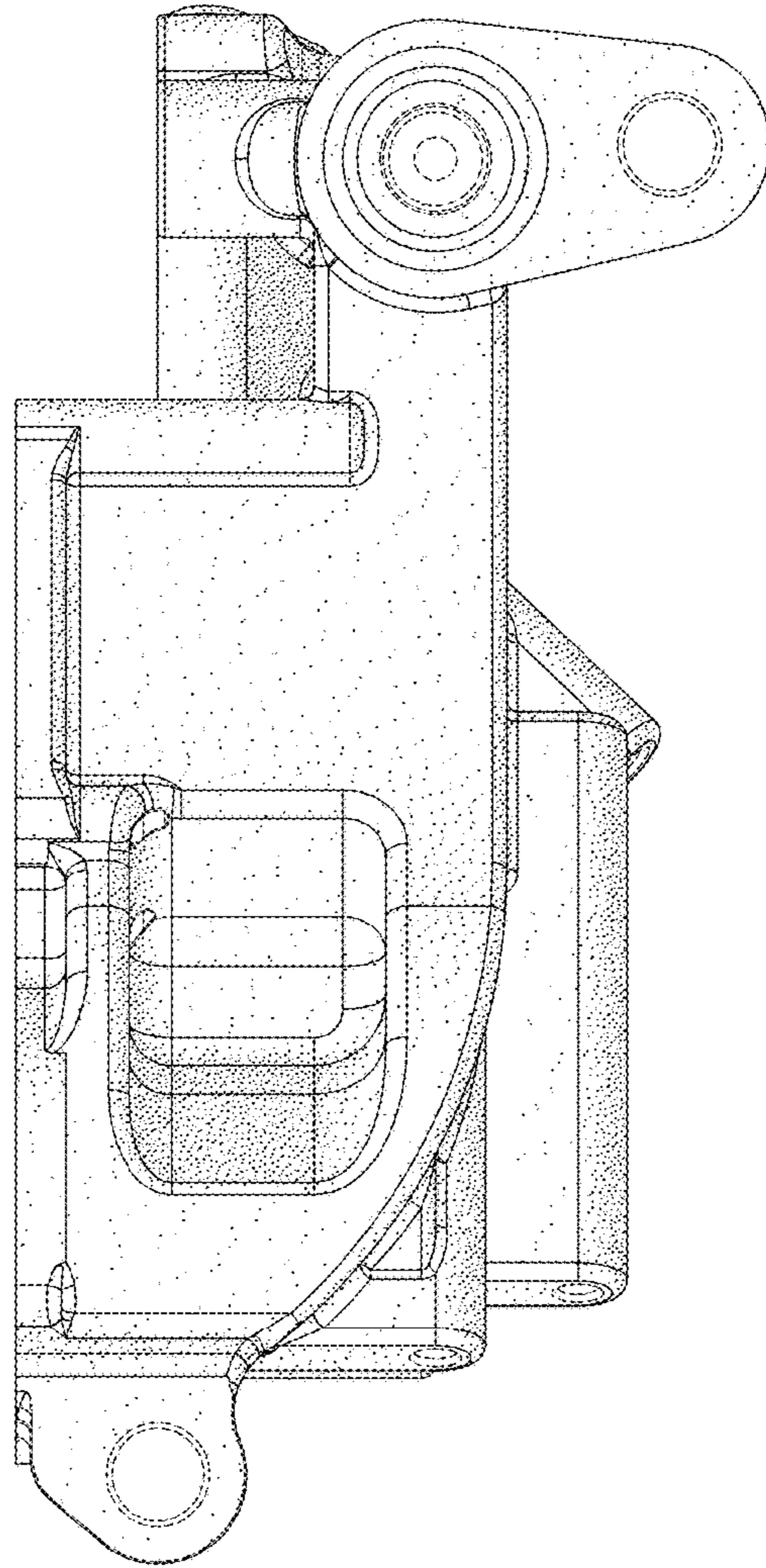


FIG. 6



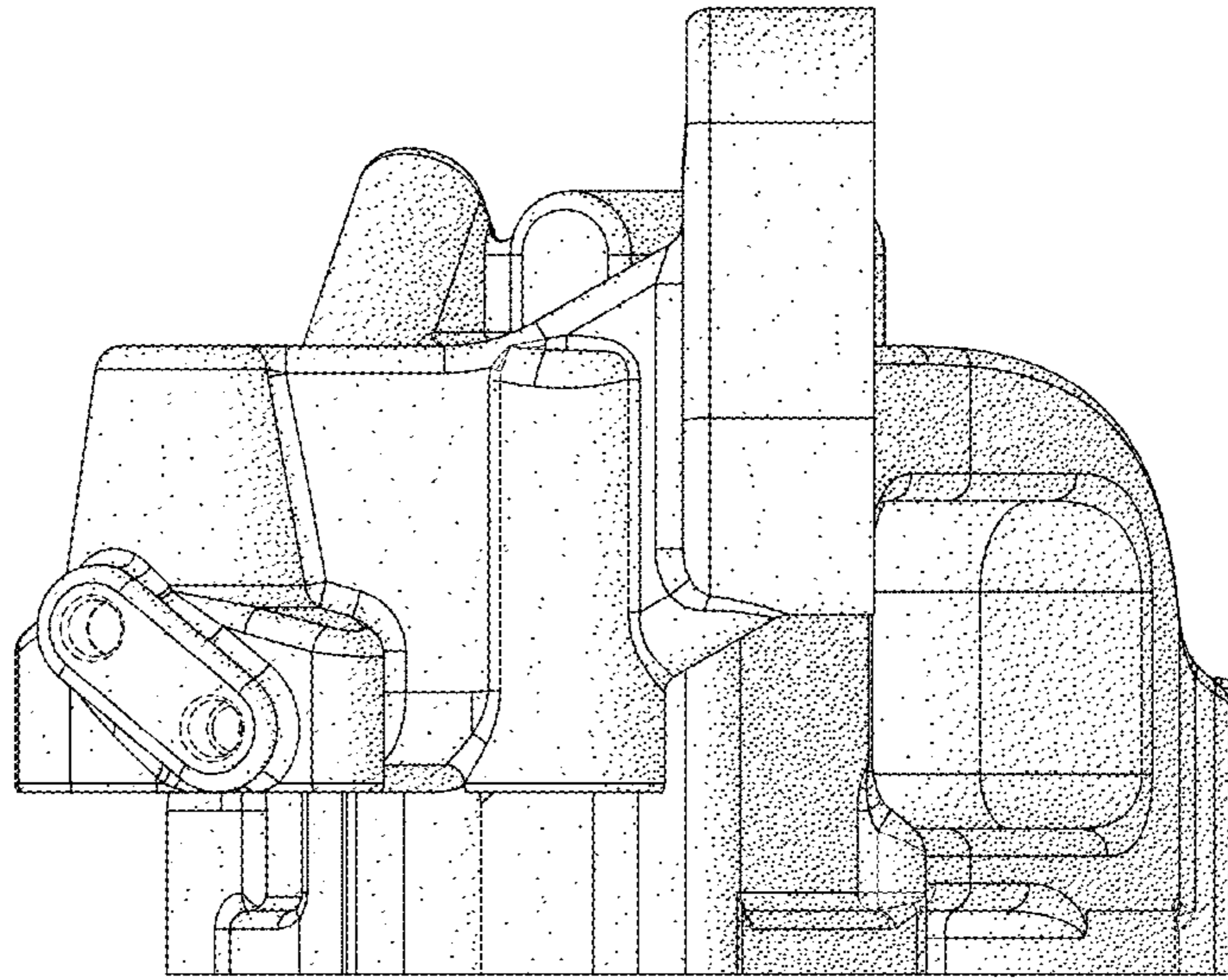


FIG. 8

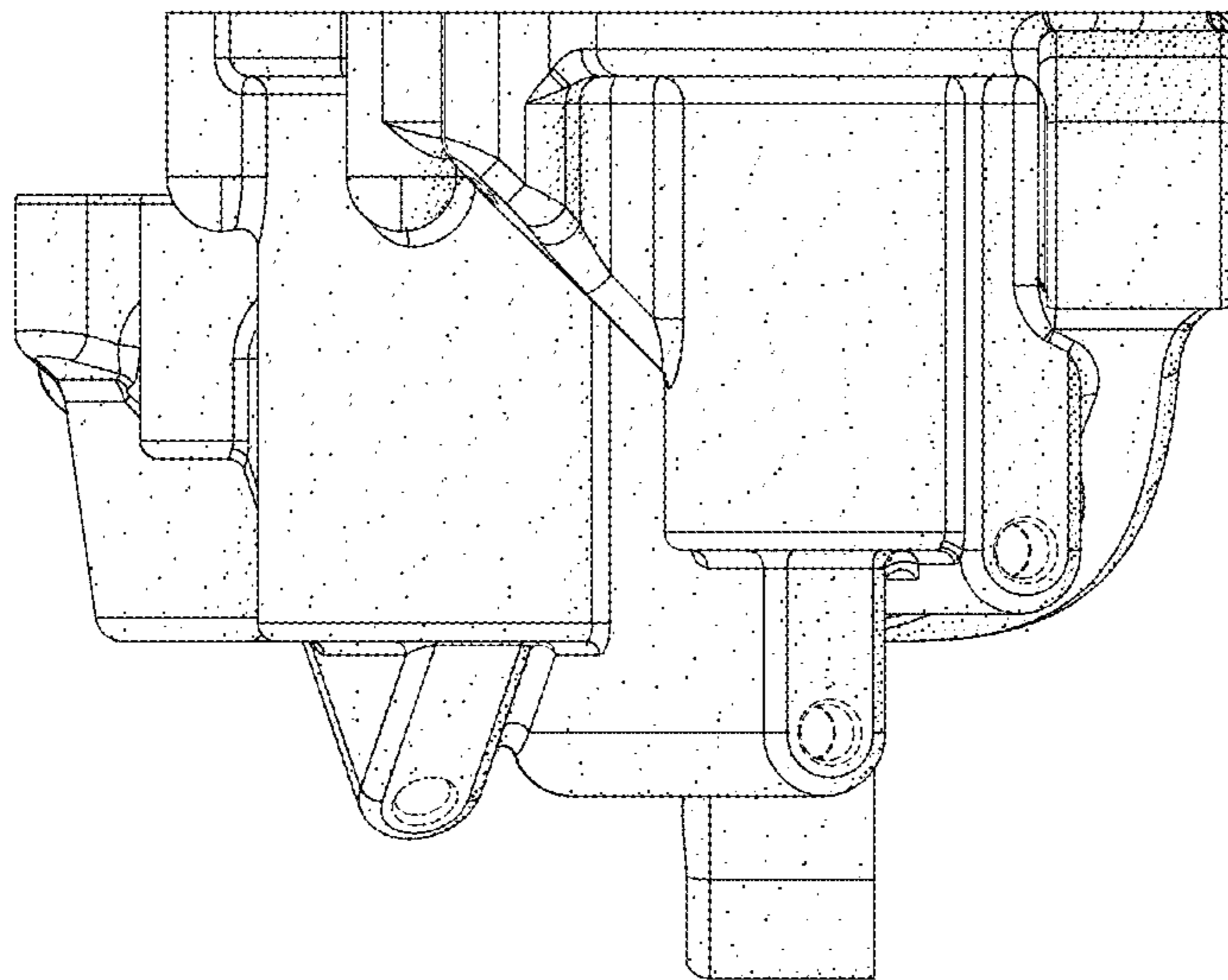


FIG. 7