



US00D894065S

(12) **United States Design Patent** (10) **Patent No.:** **US D894,065 S**  
**Wilson et al.** (45) **Date of Patent:** **\*\* Aug. 25, 2020**

(54) **MULTI-PISTON CALIPER**  
(71) Applicant: **AKEBONO BRAKE INDUSTRY CO., LTD**, Chuo-ku, Tokyo (JP)  
(72) Inventors: **Kirby Wilson**, Lathrup Village, MI (US); **Andreas Keller**, Dexter, MI (US); **Adrian Smith**, Ann Arbor, MI (US)  
(73) Assignee: **Akebono Brake Industry Co., Ltd.**, Tokyo (JP)  
(\*\*) Term: **15 Years**  
(21) Appl. No.: **29/674,039**  
(22) Filed: **Dec. 19, 2018**  
(51) **LOC (12) Cl.** ..... **12-16**  
(52) **U.S. Cl.**  
USPC ..... **D12/180**  
(58) **Field of Classification Search**  
USPC ..... D12/123, 160, 179, 180  
CPC ..... F16D 55/22; F16D 55/224; F16D 55/226; F16D 55/227; F16D 55/228; F16D 65/18; F16D 65/0068; F16D 65/021  
See application file for complete search history.

(56) **References Cited**  
U.S. PATENT DOCUMENTS  
D442,900 S \* 5/2001 Separautzki ..... D12/180  
D512,352 S \* 12/2005 Veneziano ..... D12/180  
D520,924 S \* 5/2006 Gotti ..... D12/180  
D619,063 S \* 7/2010 Veneziano ..... D12/180  
D785,520 S \* 5/2017 Bonetti ..... D12/180  
D790,417 S \* 6/2017 Bertone ..... D12/180  
D805,012 S \* 12/2017 Crippa ..... D12/180  
D813,125 S \* 3/2018 Crippa ..... D12/180  
D816,002 S \* 4/2018 Crippa ..... D12/180  
D831,551 S \* 10/2018 Wilson ..... D12/190  
D837,704 S \* 1/2019 Huang ..... D12/180

D861,559 S \* 10/2019 Scotti ..... D12/180  
D862,327 S \* 10/2019 Scotti ..... D12/180  
D862,328 S \* 10/2019 Scotti ..... D12/180  
D864,809 S \* 10/2019 Puddu ..... D12/180  
2005/0161290 A1\* 7/2005 Donadoni ..... F16D 66/021  
188/1.11 L  
2007/0278049 A1\* 12/2007 Kobayashi ..... F16D 55/228  
188/73.39  
2013/0020155 A1\* 1/2013 Crippa ..... F16D 55/228  
188/73.31  
2014/0158483 A1\* 6/2014 Miyahara ..... F16D 65/0068  
188/73.47

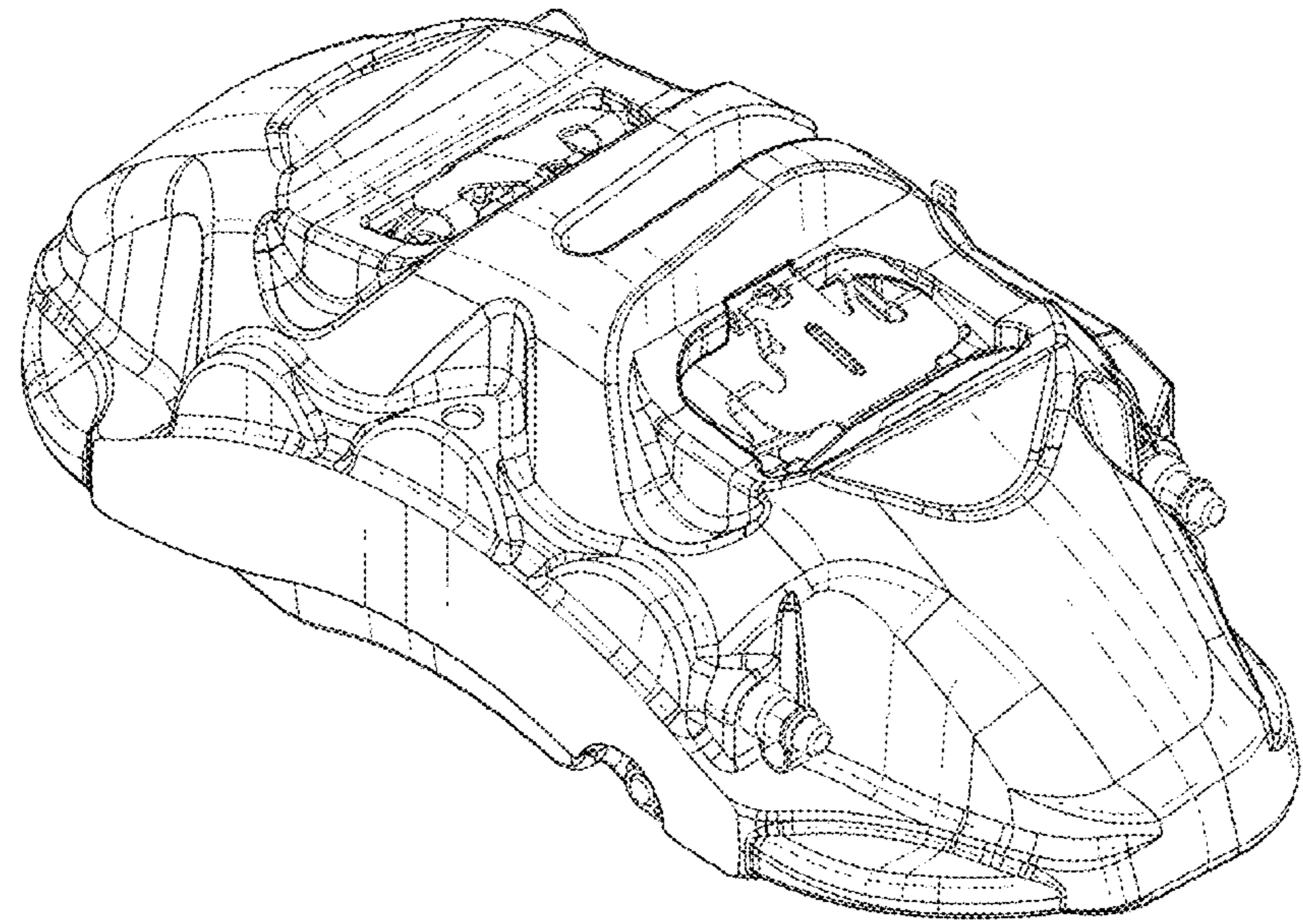
(Continued)

*Primary Examiner* — Susan E Krakower  
*Assistant Examiner* — Jerry Shiuian-Hua Hsu  
(74) *Attorney, Agent, or Firm* — The Dobrusin Law Firm, P.C.

(57) **CLAIM**  
The ornamental design for a multi-piston caliper, as shown and described.

**DESCRIPTION**  
FIG. 1 is a top, front, right perspective view of the multi-piston caliper, showing our new design.  
FIG. 2 is a bottom, front, right 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 right side elevational view thereof.  
FIG. 8 is a left side elevational view thereof; and,  
FIG. 9 is a bottom, front right perspective view thereof in a state of use.  
The broken lines illustrate portions of the multi-piston caliper that form no part of the claimed design. The broken lines illustrating the brake pads in FIG. 9 illustrate environmental structure that forms no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

2015/0027821 A1\* 1/2015 Nessi ..... F16D 55/224  
188/72.3  
2015/0027822 A1\* 1/2015 Cerutti ..... F16D 55/228  
188/73.47  
2015/0122597 A1\* 5/2015 Shimamura ..... F16D 55/228  
188/72.4  
2016/0116009 A1\* 4/2016 Falter ..... F16D 55/22  
188/73.38  
2016/0208872 A1\* 7/2016 Morio ..... F16D 65/18  
2018/0031060 A1\* 2/2018 Huang ..... F16D 55/227

\* cited by examiner

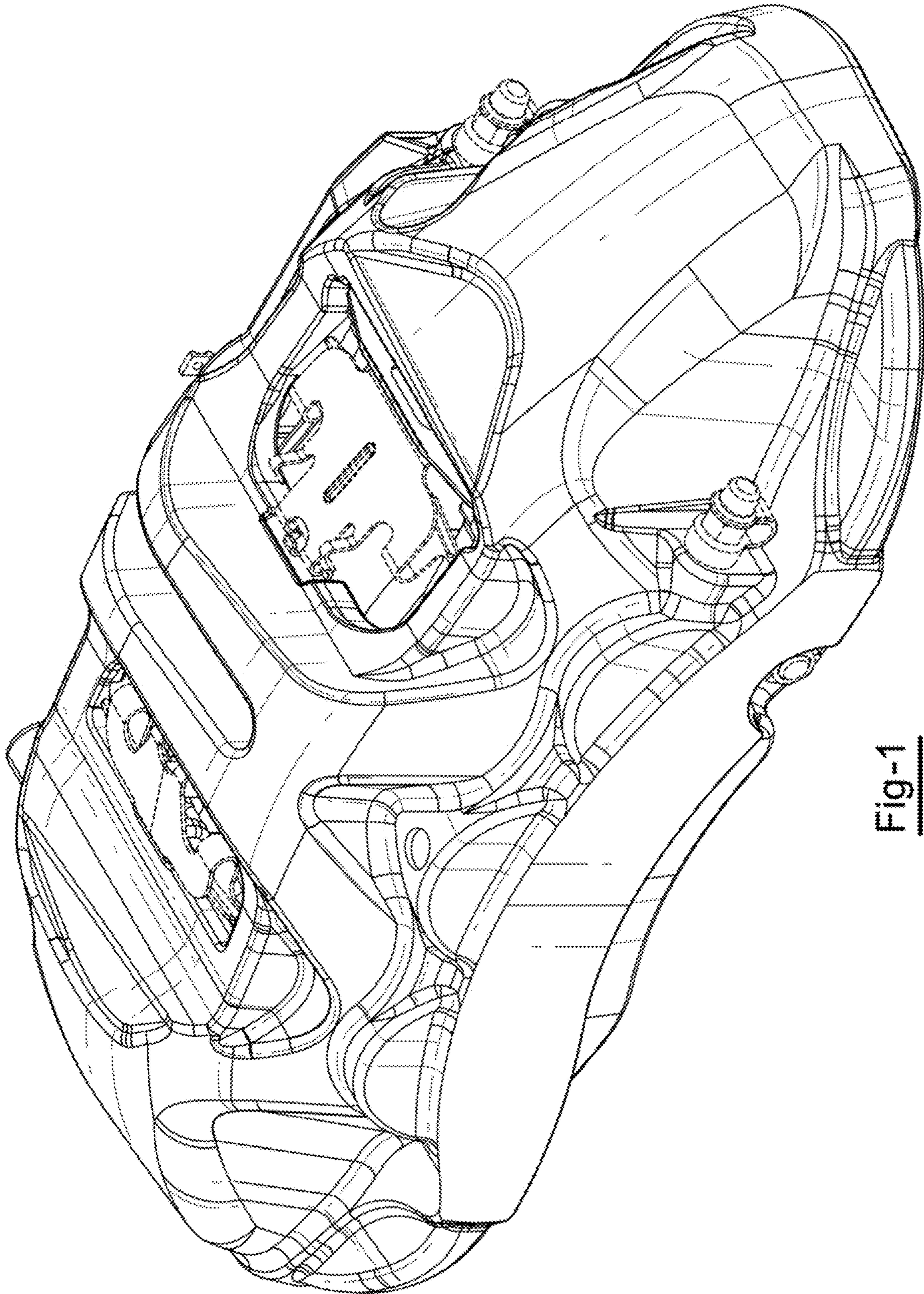


Fig-1

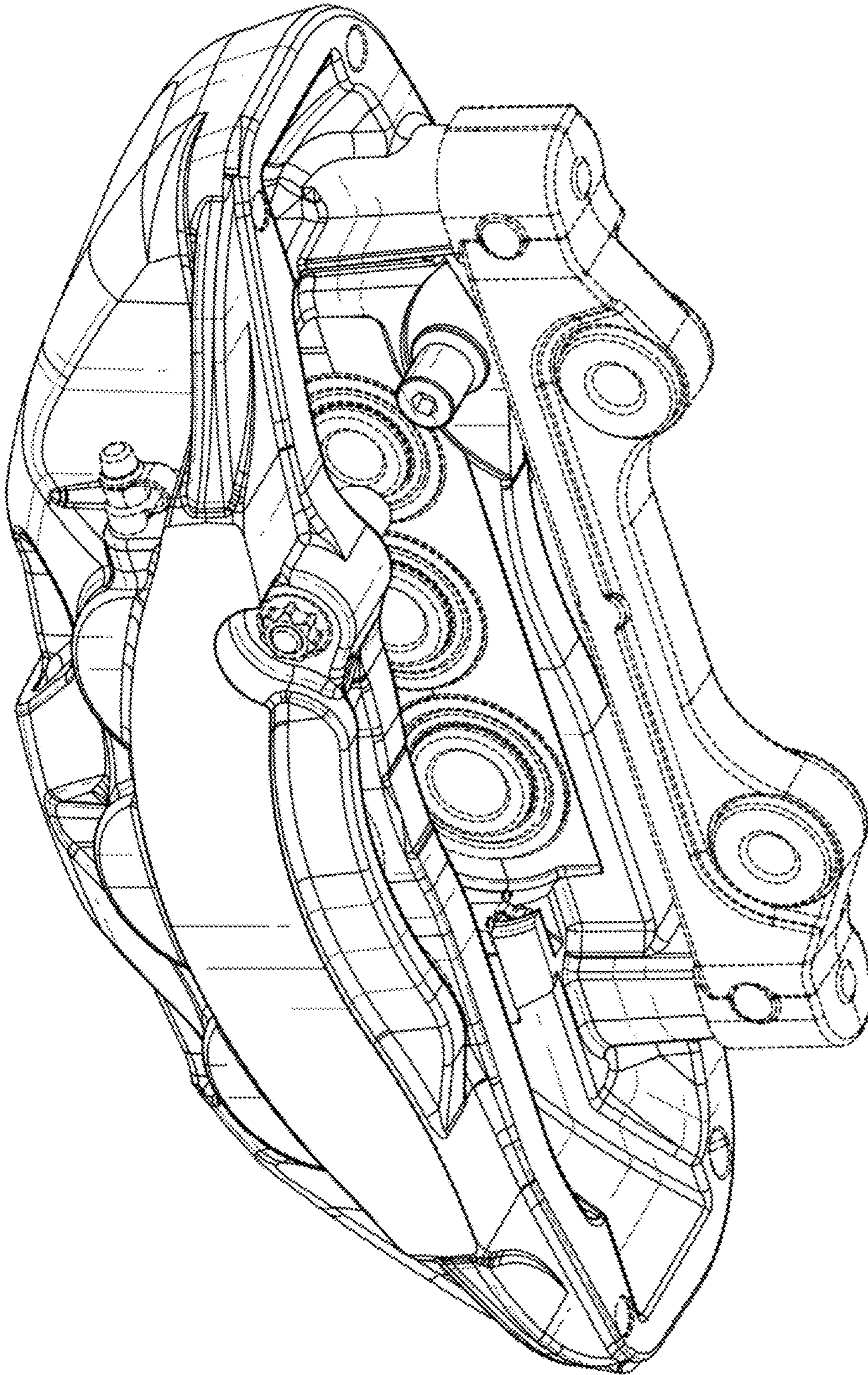


Fig-2

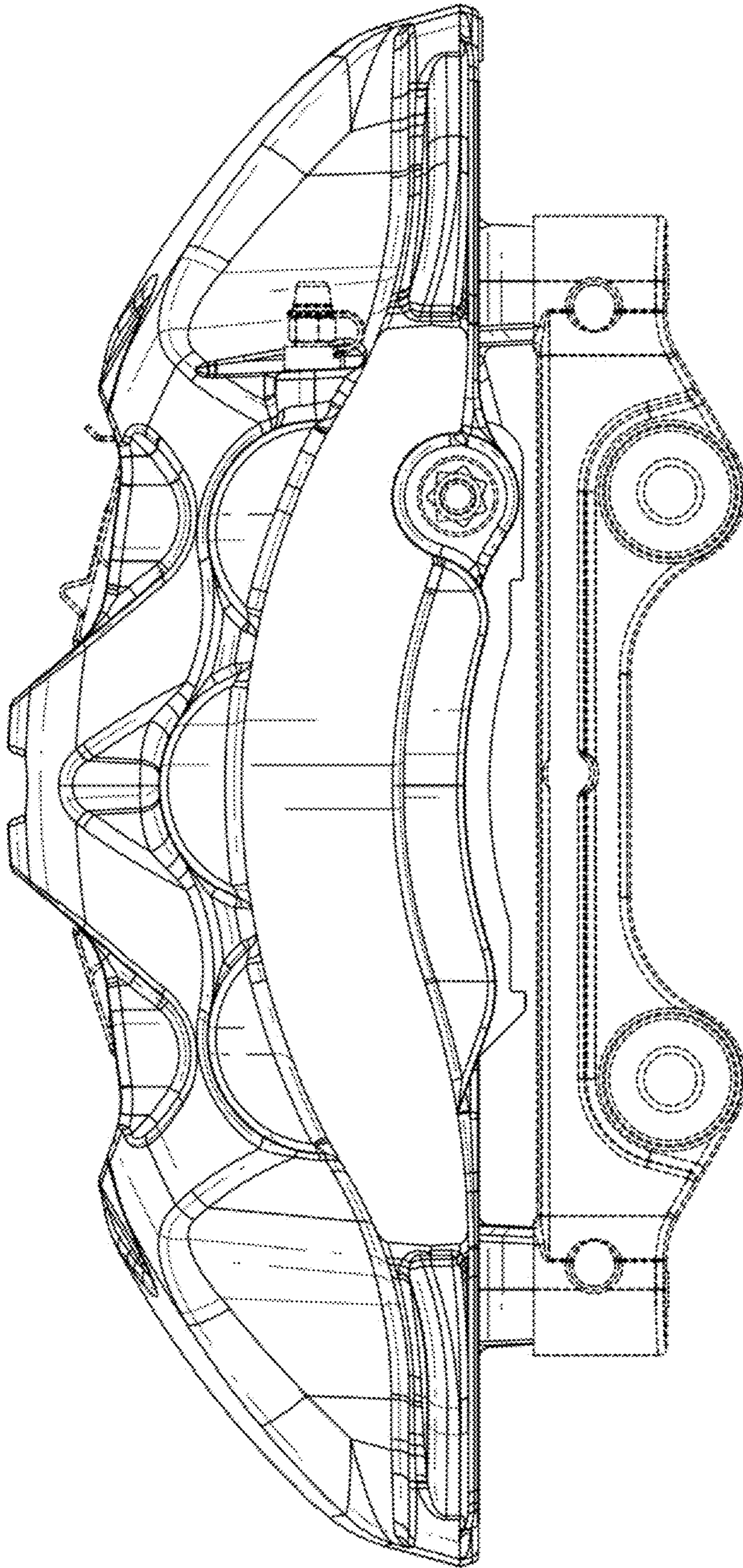


Fig-3

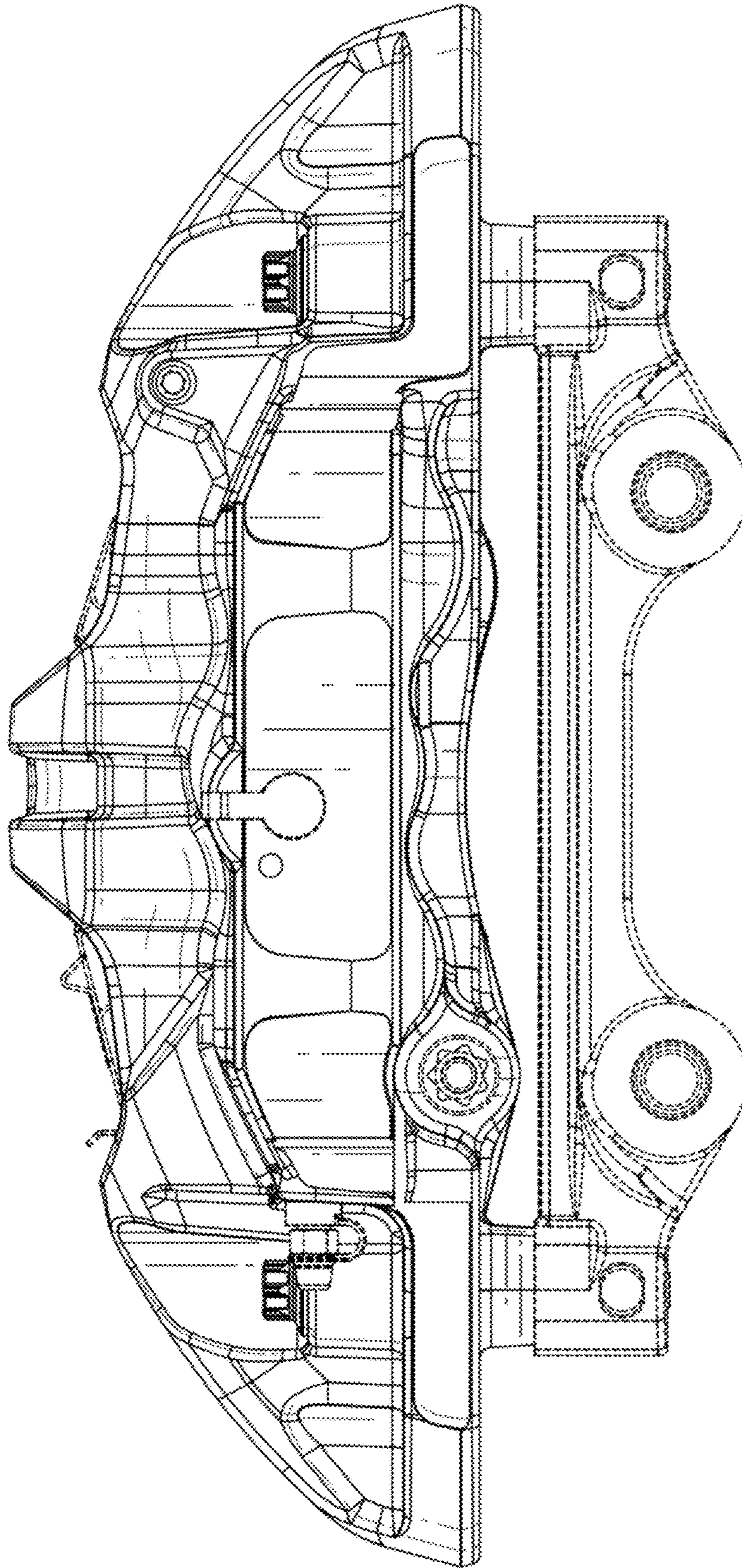


Fig-4

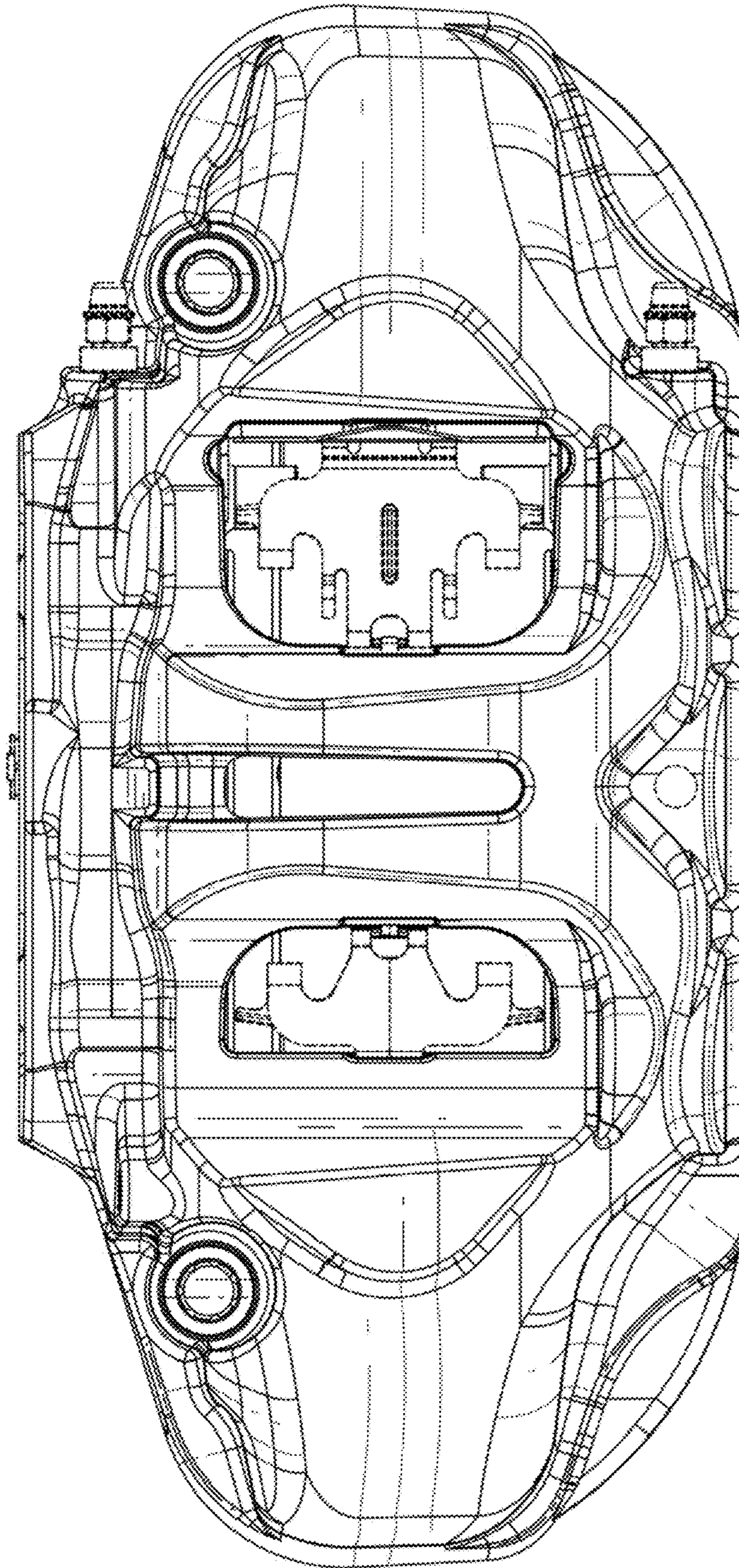


Fig-5

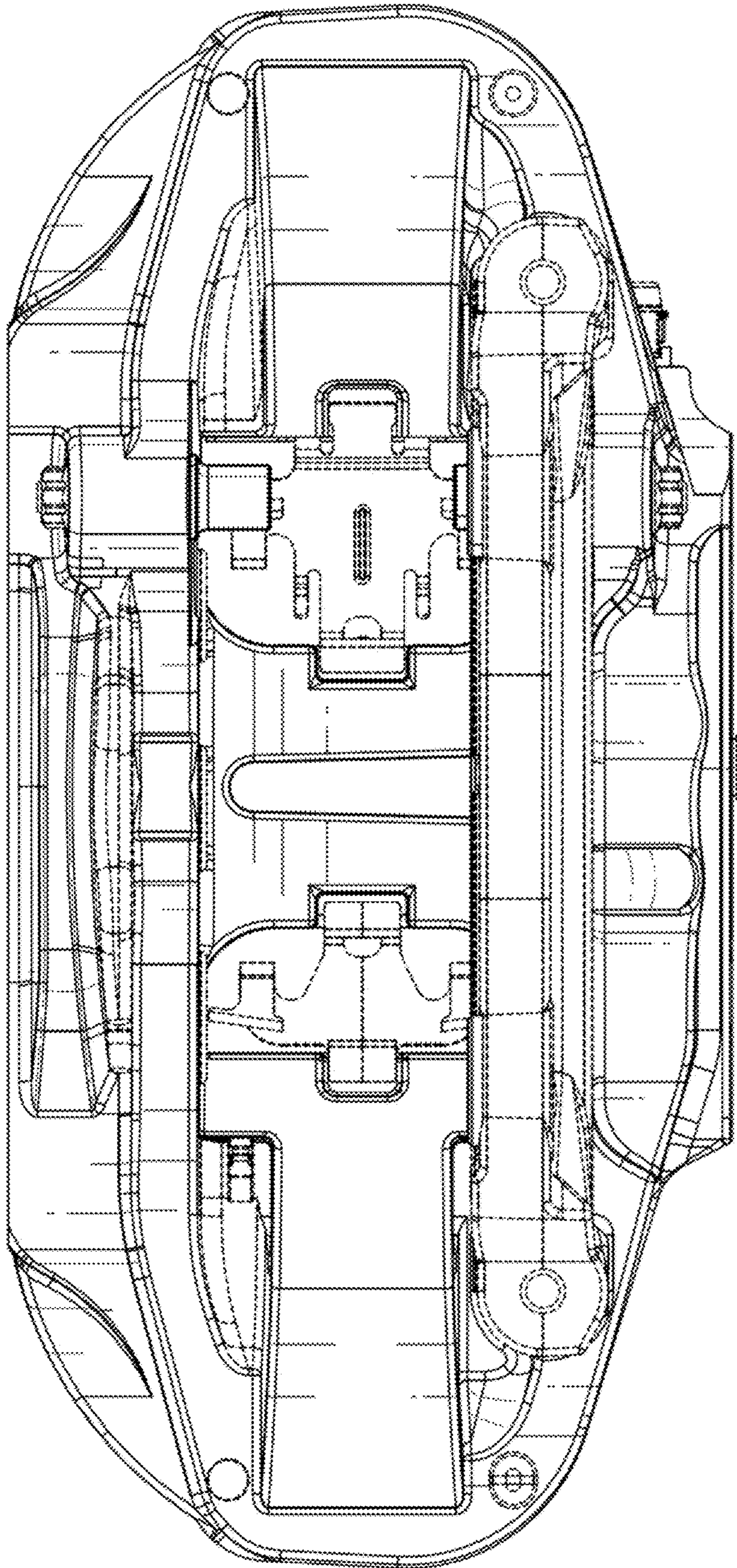


Fig-6



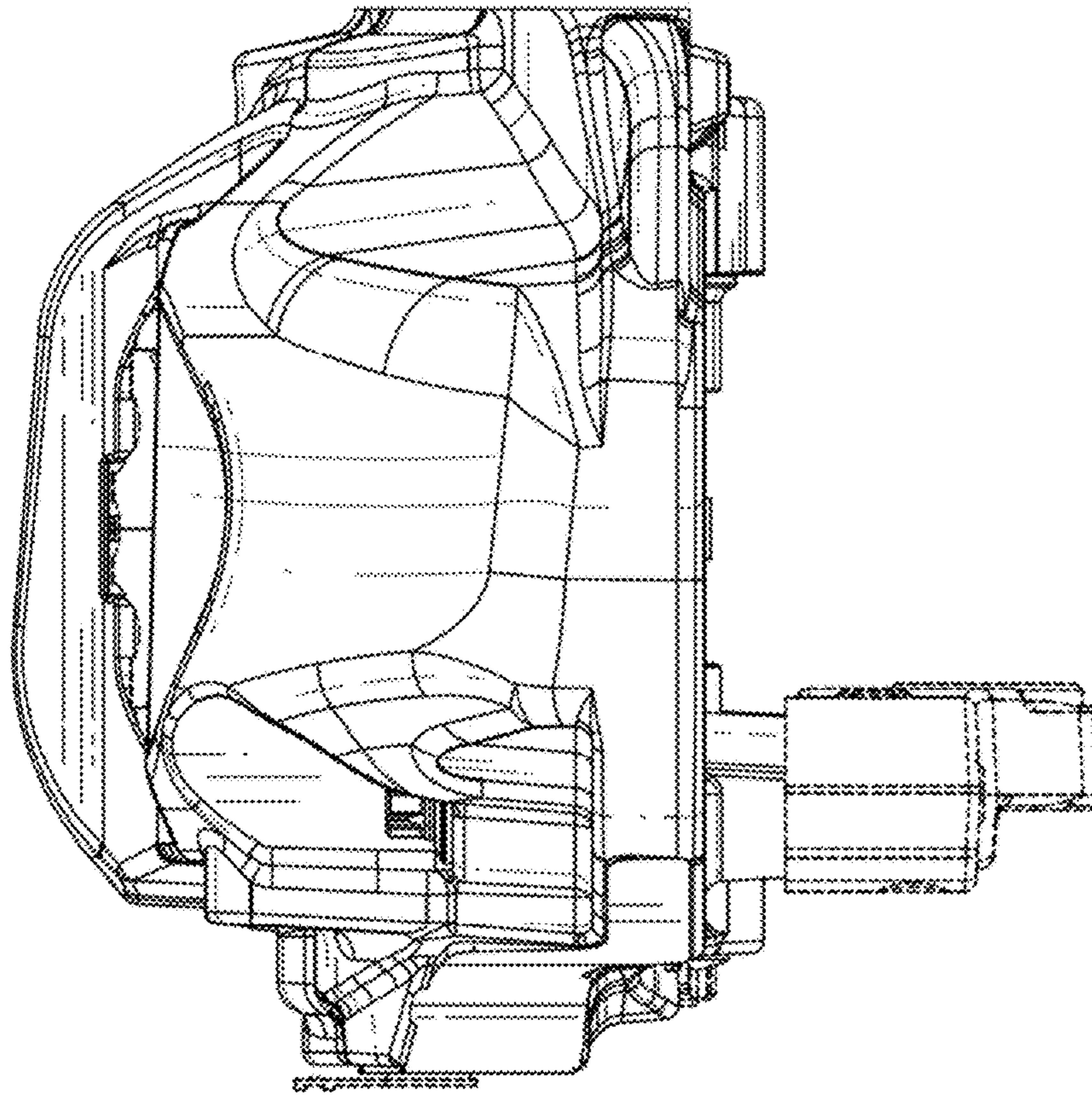


Fig-8

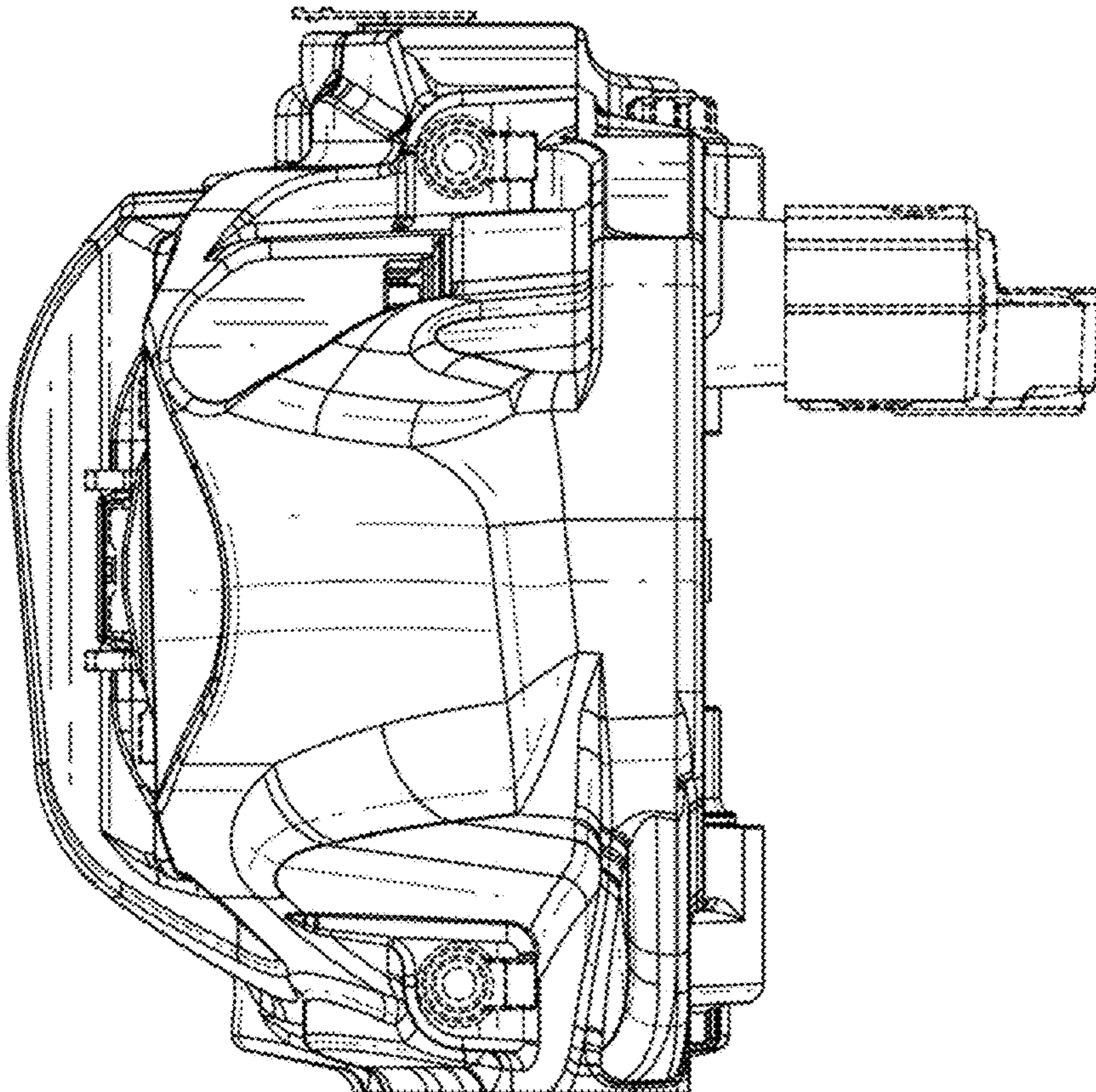


Fig-7

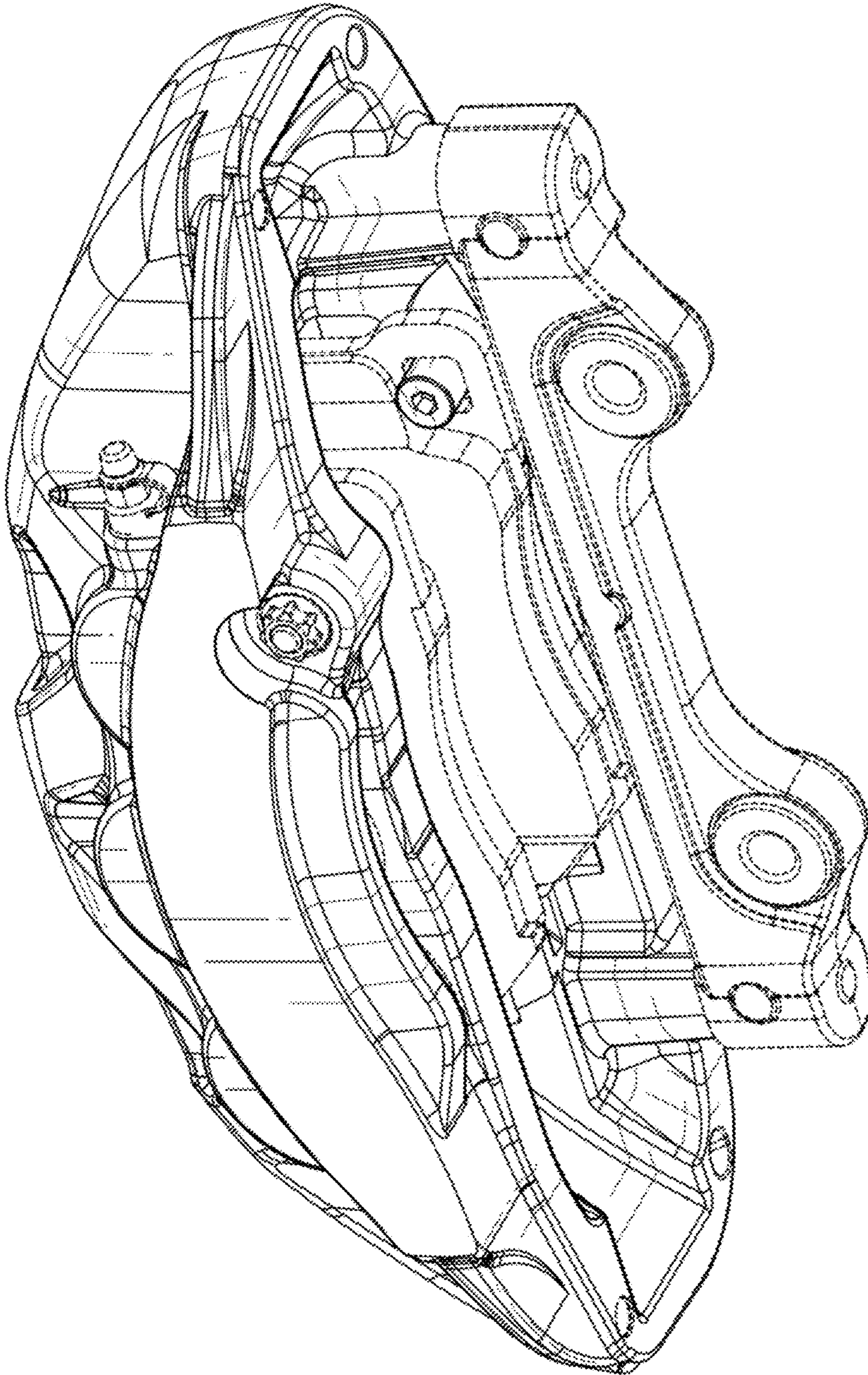


Fig-9