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(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**
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(52) **U.S. Cl.**
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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

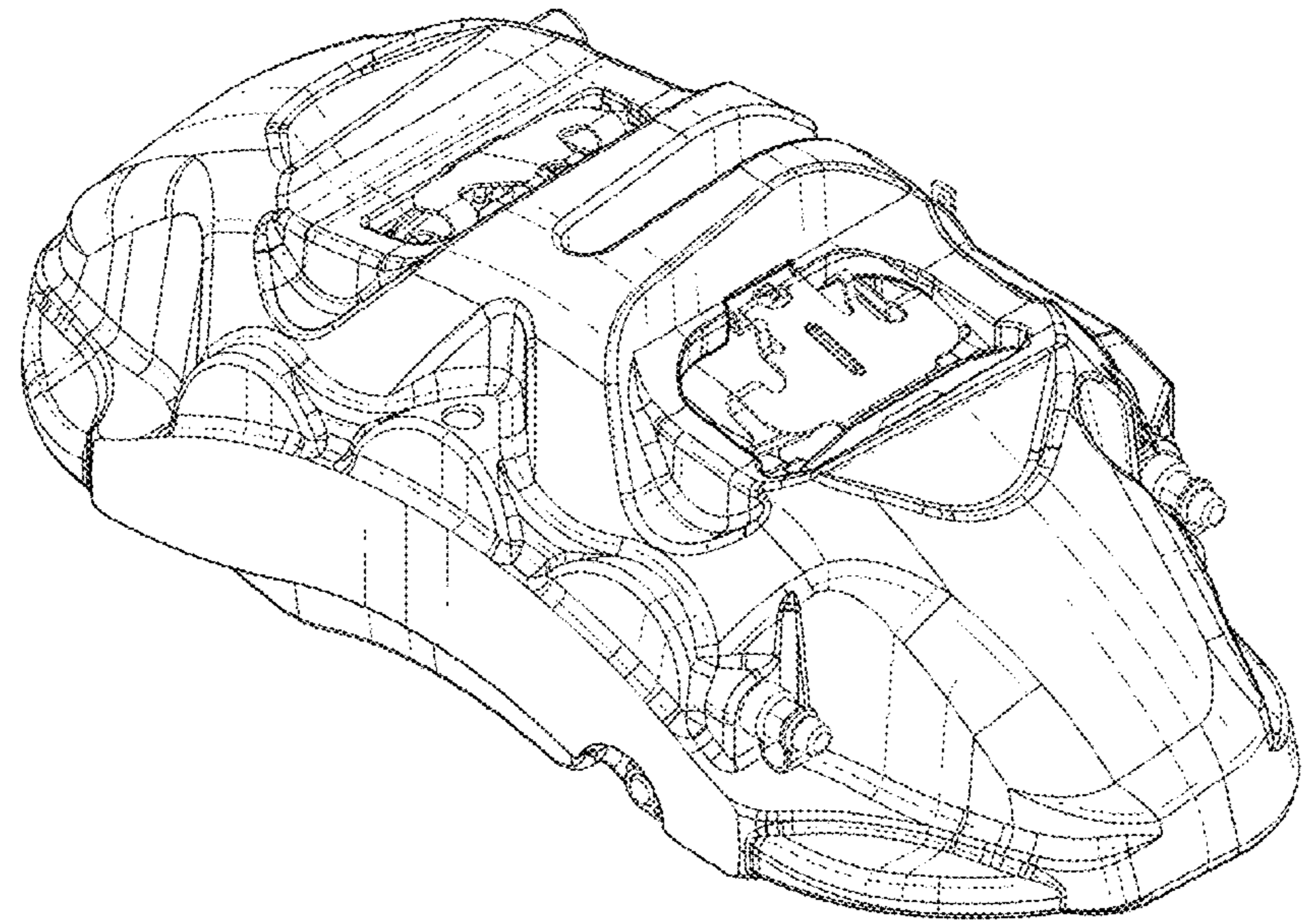
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(57) **CLAIM**
The ornamental design for a multi-piston caliper, as shown and described.

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

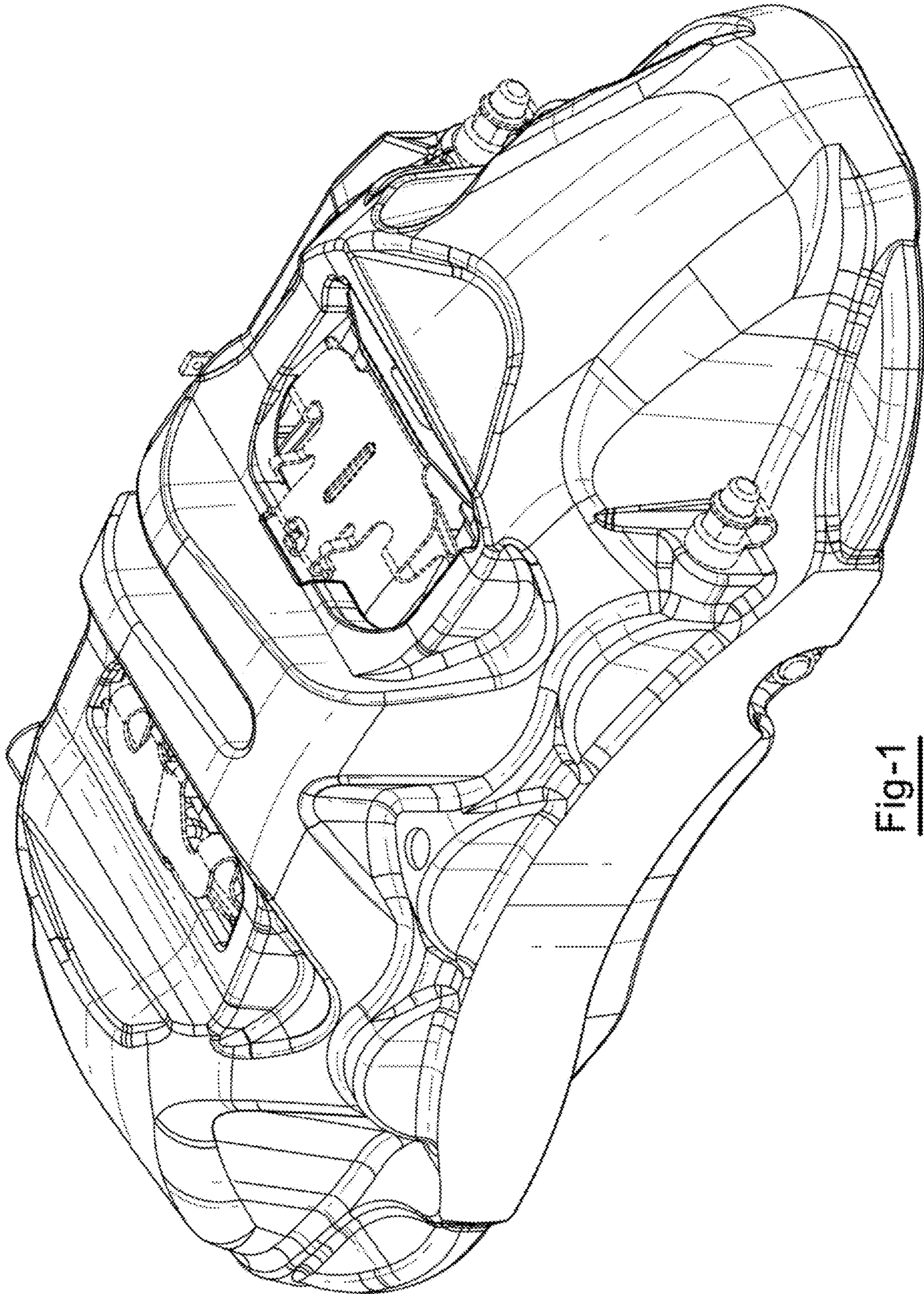


Fig-1

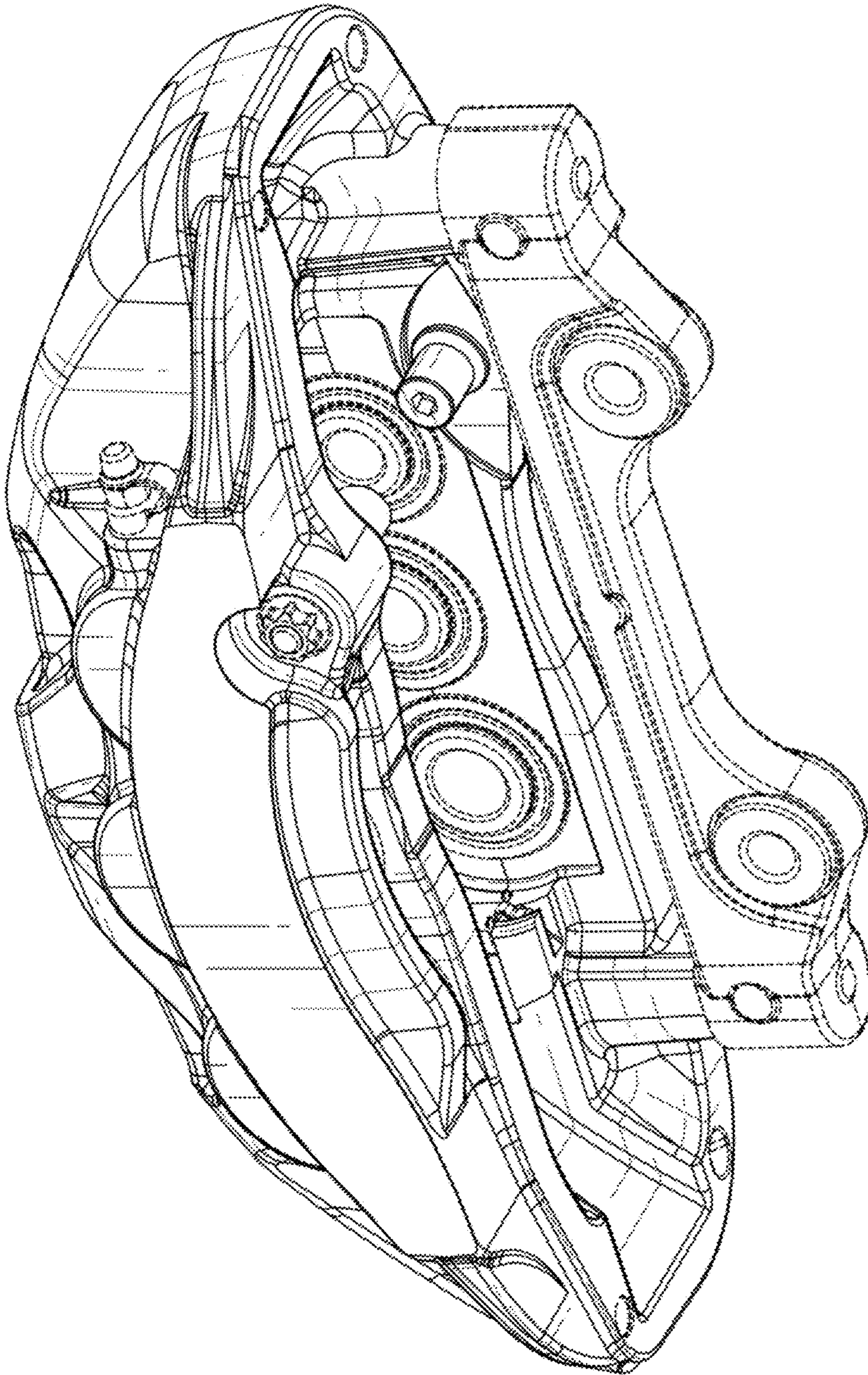


Fig-2

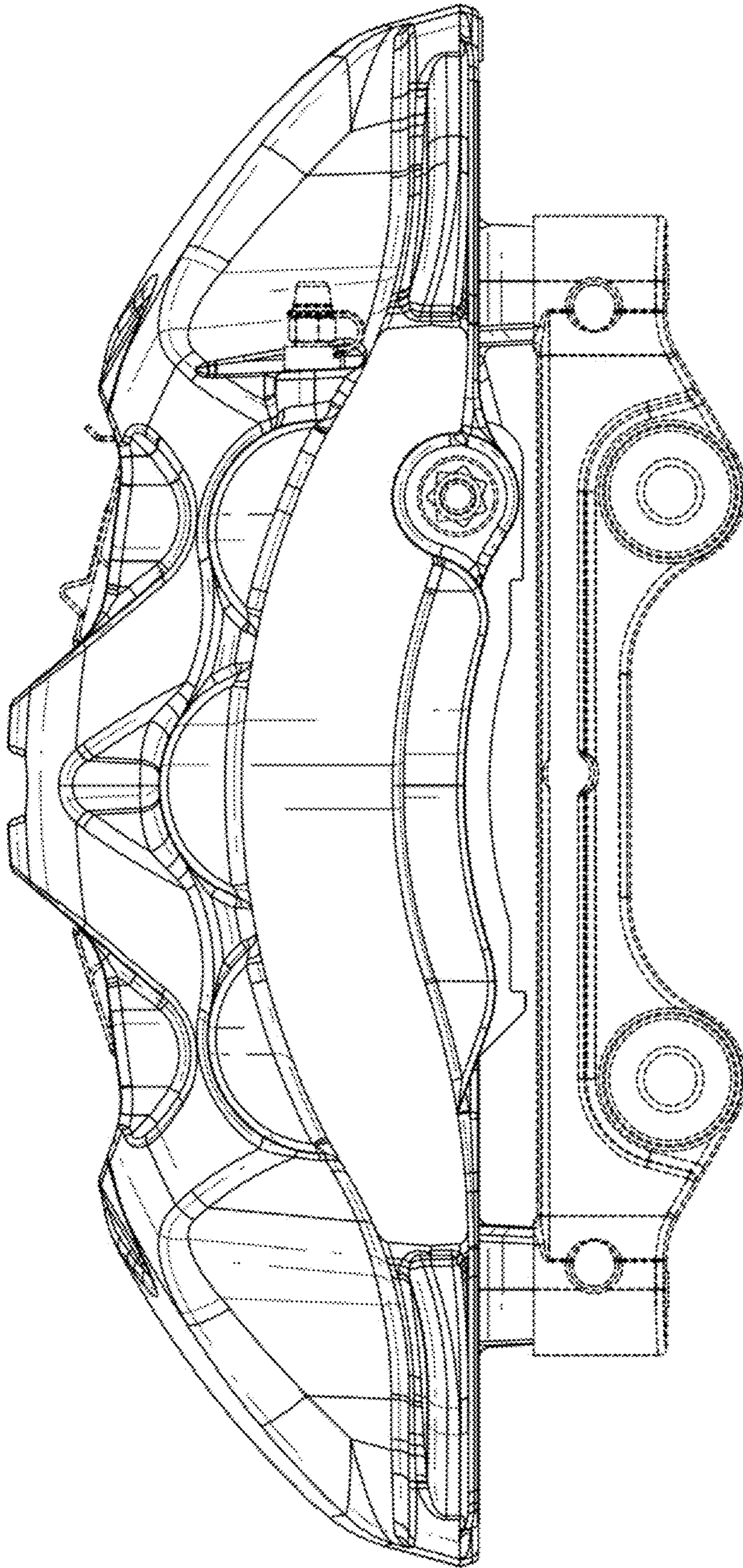


Fig-3

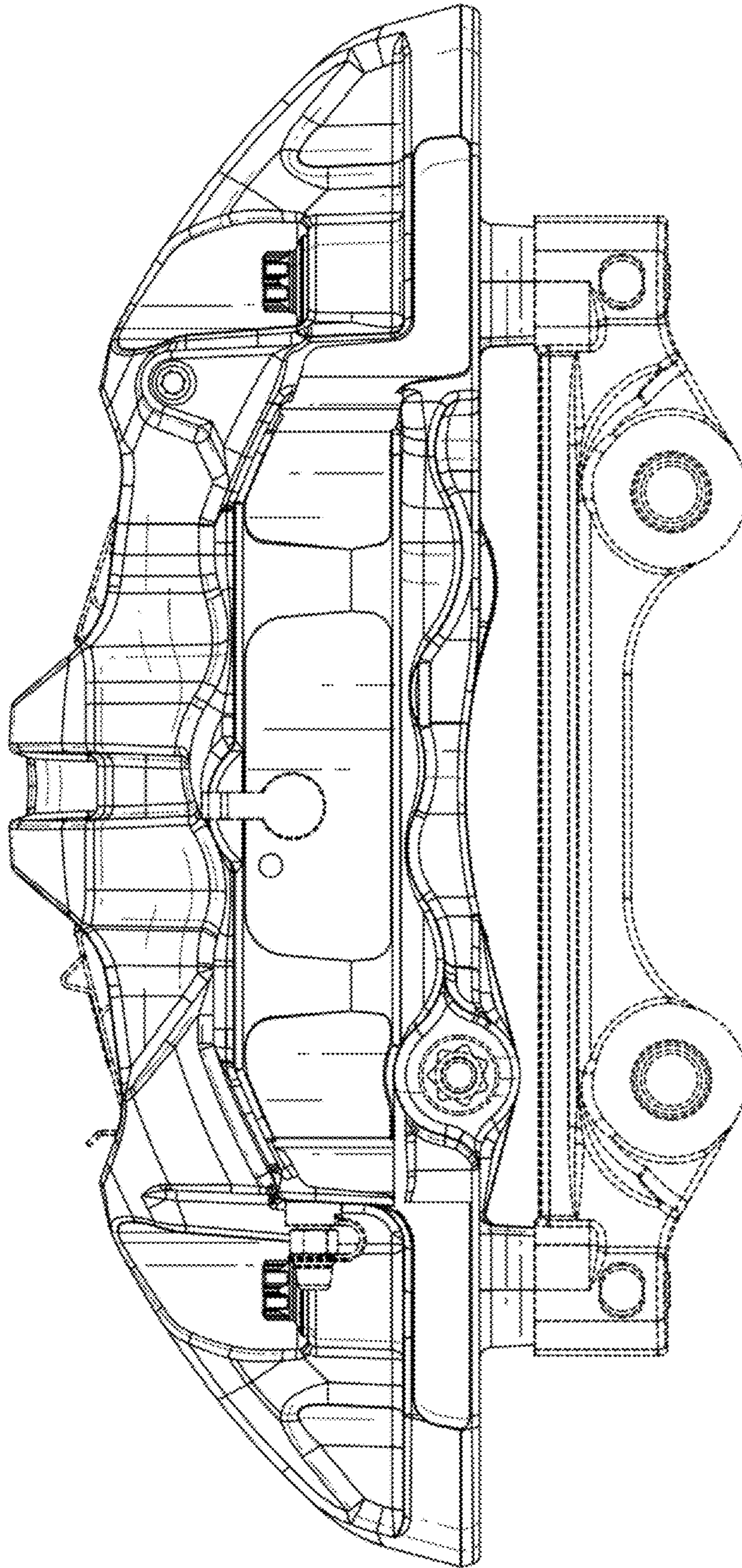


Fig-4

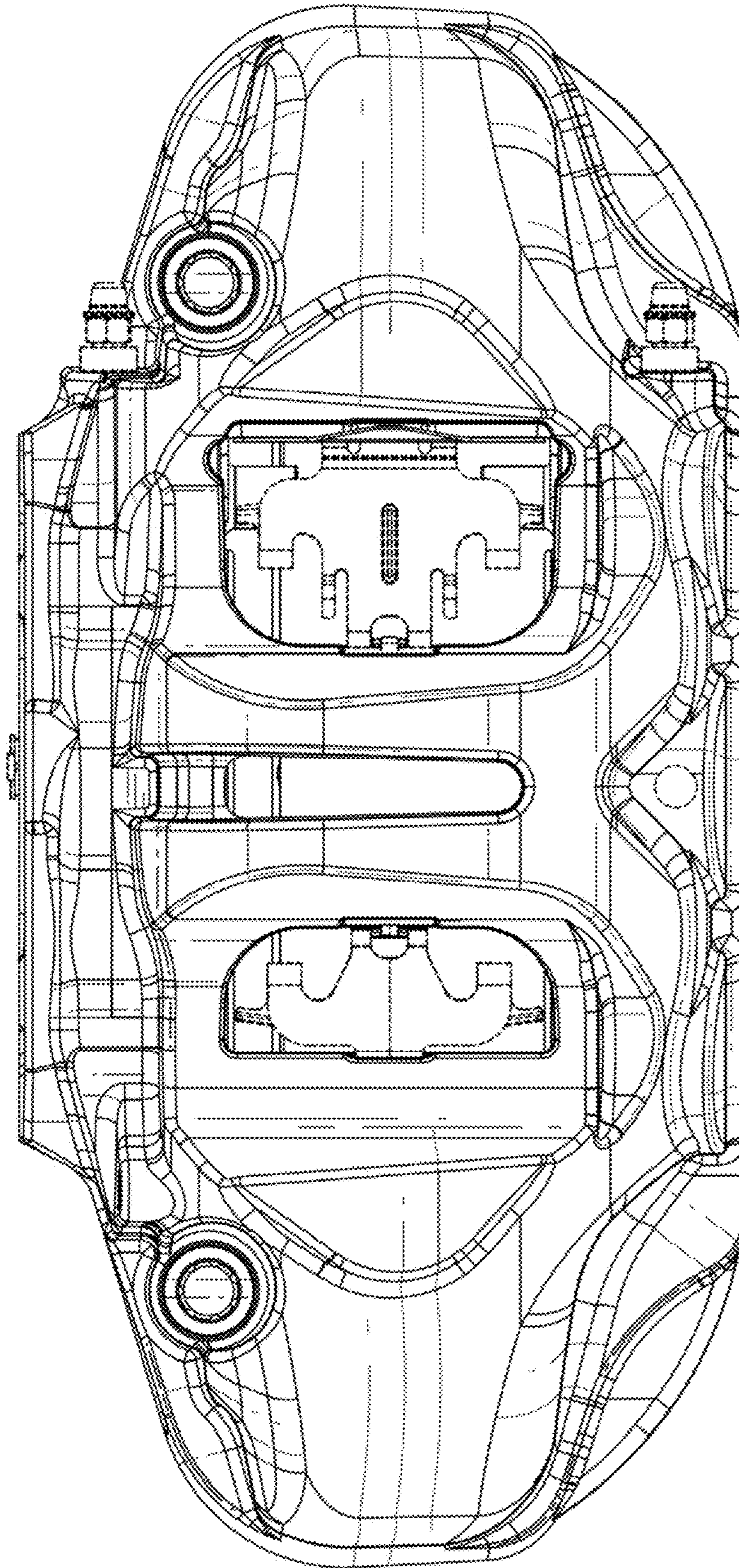


Fig-5

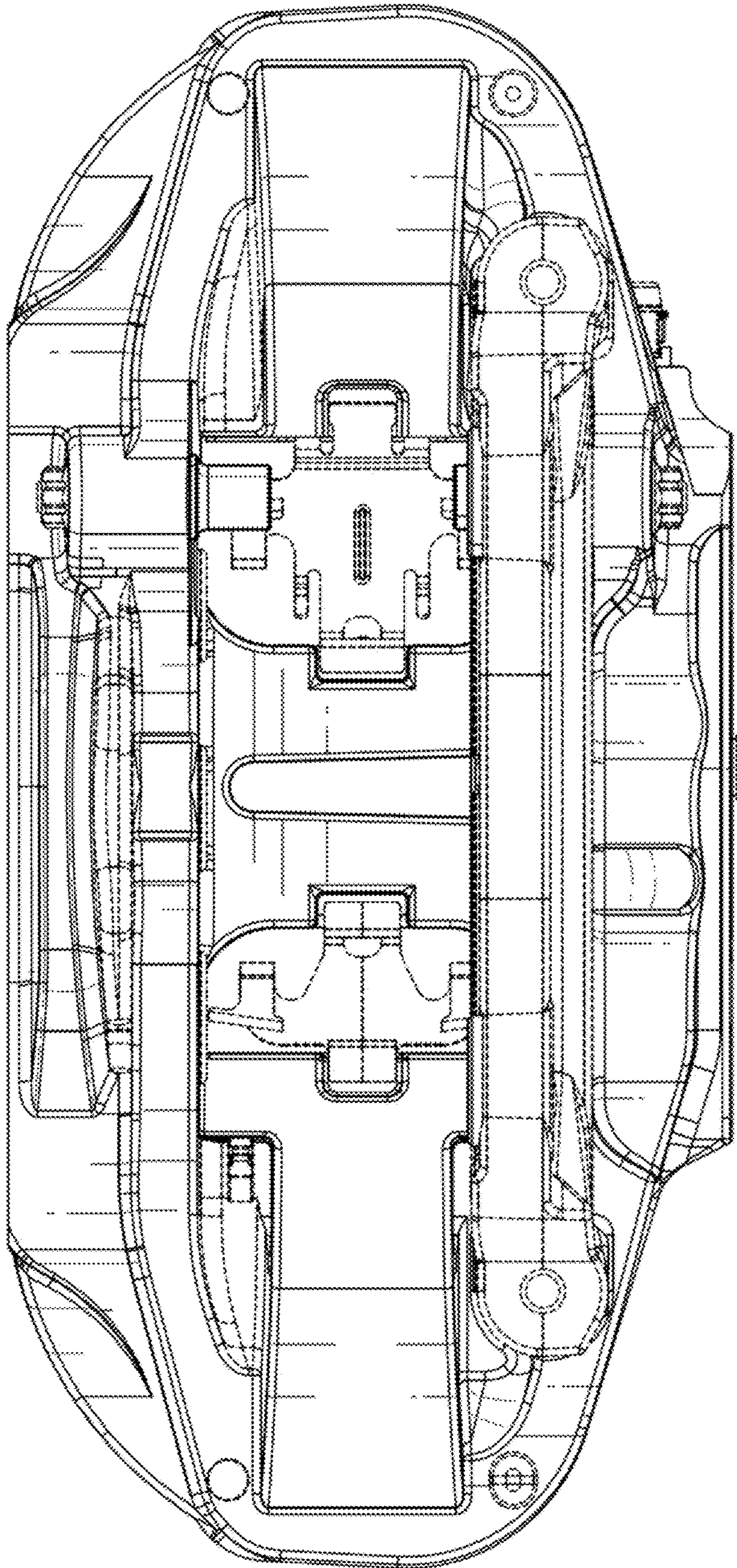


Fig-6

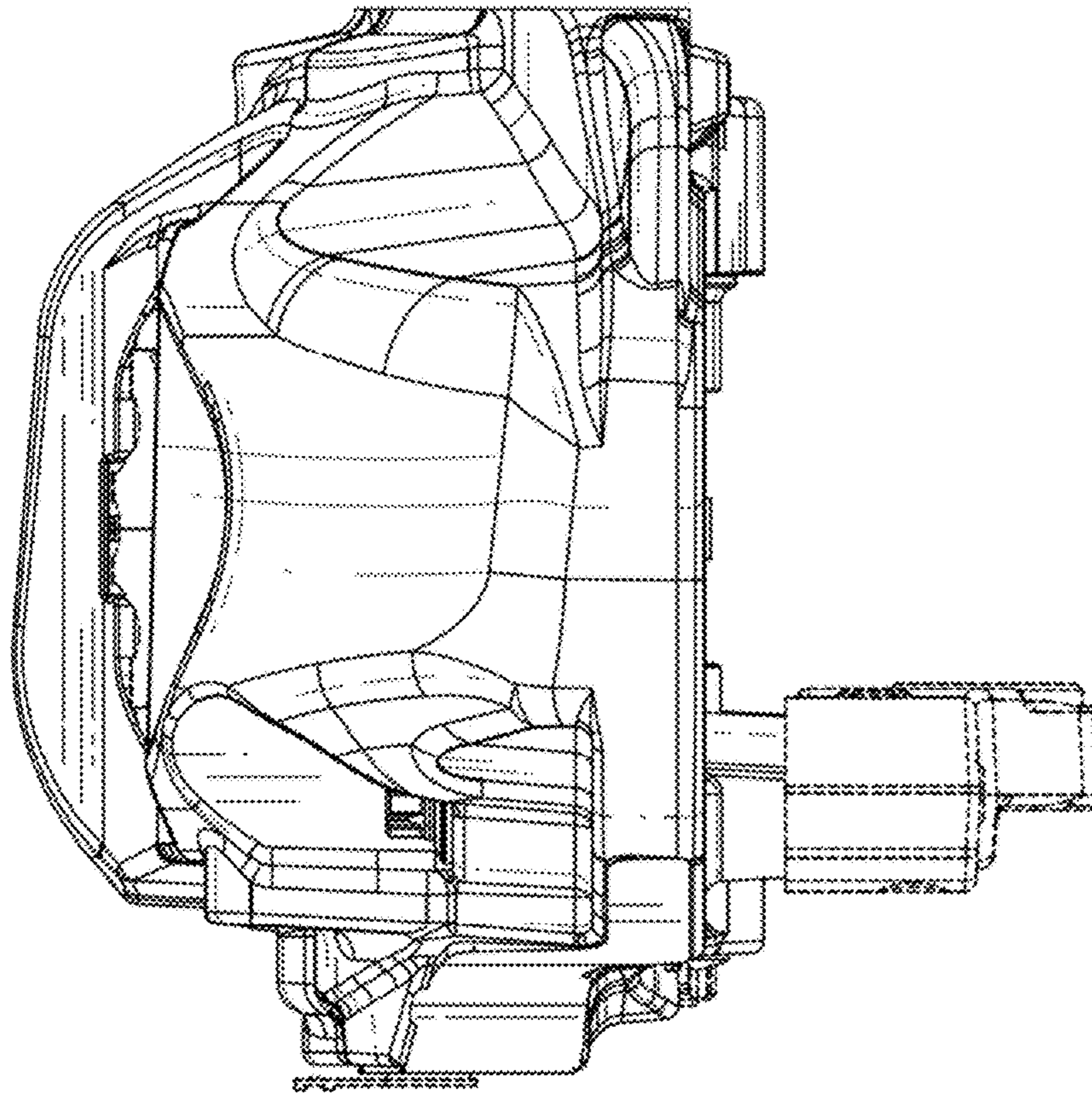


Fig-8

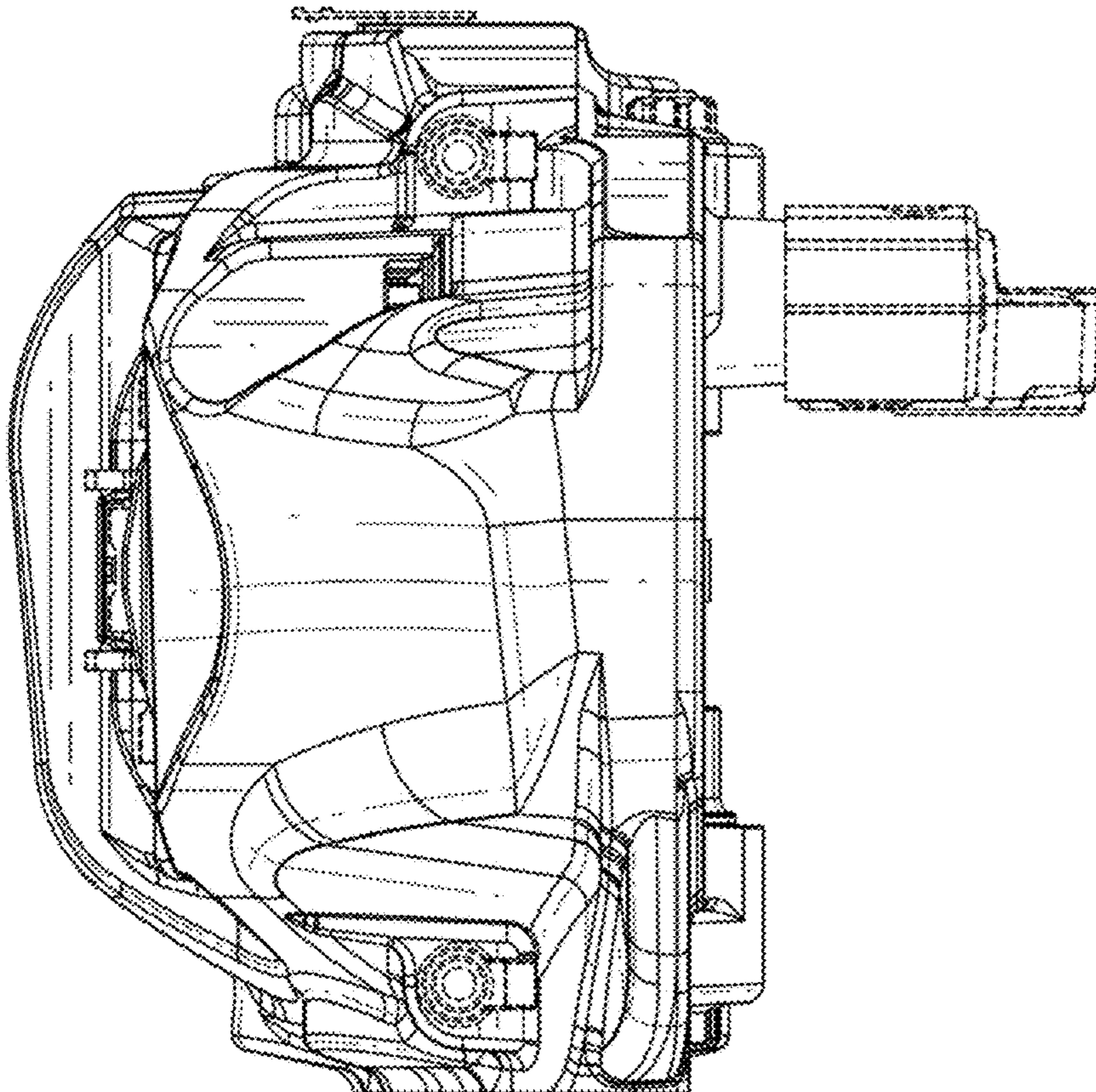


Fig-7

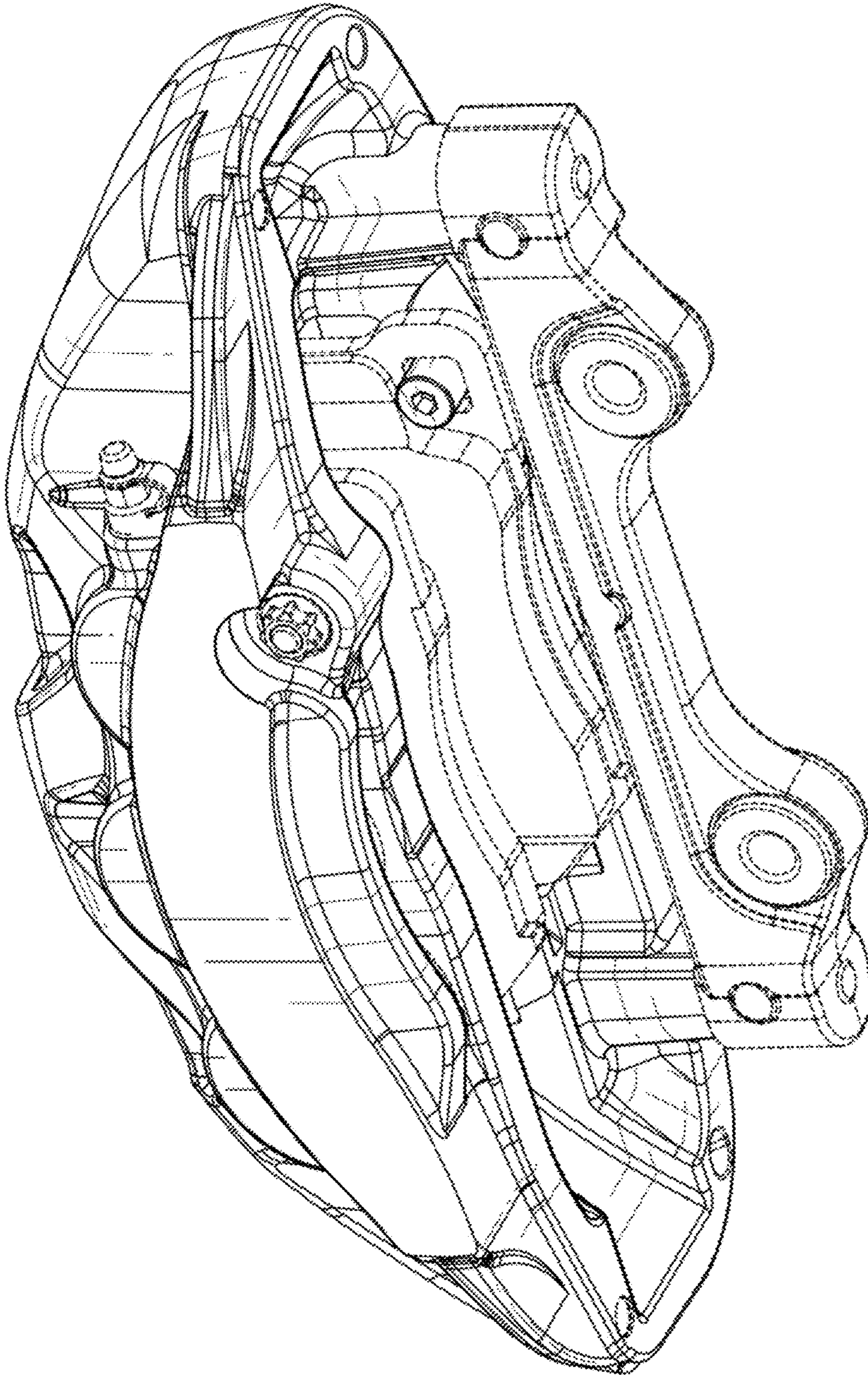


Fig-9