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

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(54) **DISC BRAKE CALLIPER**

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(52) **U.S. Cl.**
USPC **D12/180**

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D12/400, 415, 16.1, 14, 118

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B60P 1/00; B60P 3/00; B60T 7/00; B60T
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B60T 1/06; B62L 1/02; B62L 3/02; B62K
23/06; F16D 55/224; F16D 55/228; F16D
65/092; F16D 65/095; F16D 65/847

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,388,775 A * 6/1968 Baynes F16D 55/228
188/73.32

4,044,864 A * 8/1977 Karasudani F16D 55/227
188/73.36

4,881,623 A * 11/1989 Kondo F16D 55/227
188/73.36

6,189,659 B1 * 2/2001 Doi F16D 55/226
188/73.31

6,302,243 B1 * 10/2001 Ruiz F16D 55/228
188/73.1

(Continued)

OTHER PUBLICATIONS

Meritor 60450481 Brake Caliper, image post date Aug. 22, 2013,
site visited Sep. 22, 2016, (online), <http://www.allmakestruckparts.com/index.php?main_page=product_info&products_id=1921>.*

(Continued)

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(57) **CLAIM**

The ornamental design for a disc brake calliper, as shown
and described.

DESCRIPTION

FIG. 1 is a perspective view of a disc brake calliper showing
my new design;

FIG. 2 is a perspective view thereof from the side opposite
that of FIG. 1;

FIG. 3 is a side view thereof;

FIG. 4 is another side view thereof, from a side opposite that
of FIG. 3;

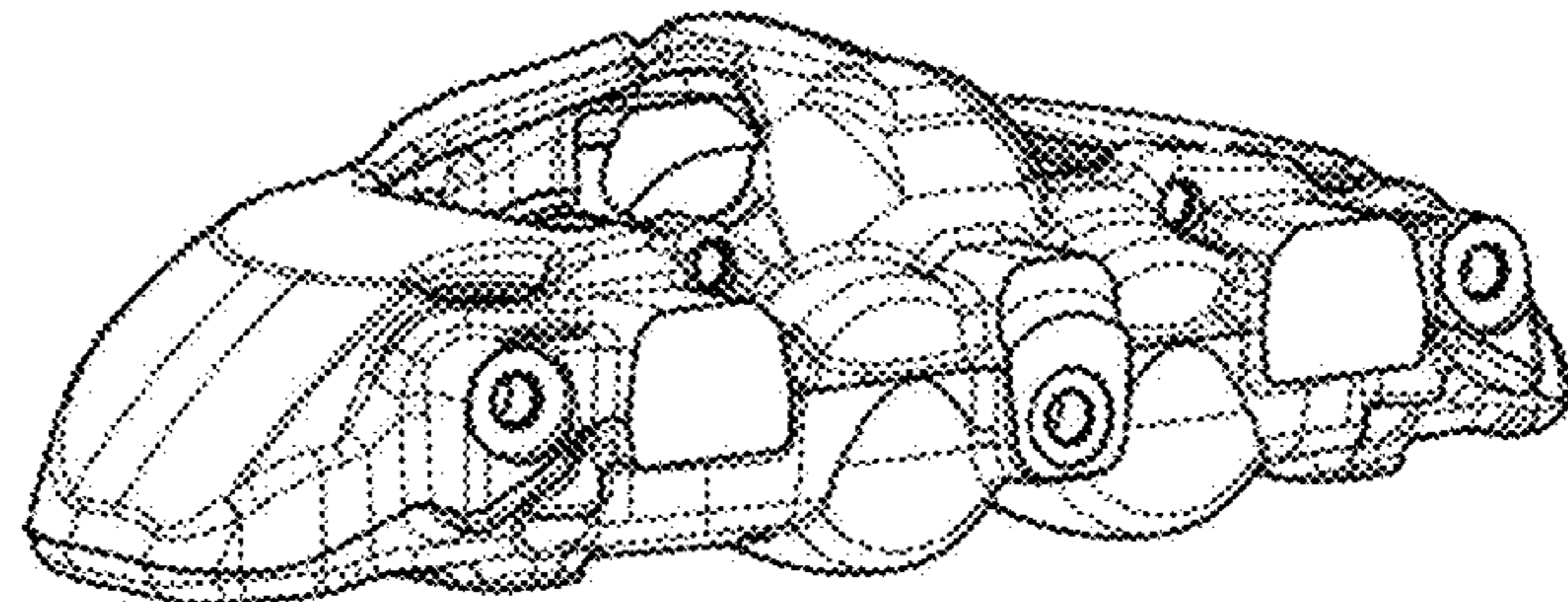
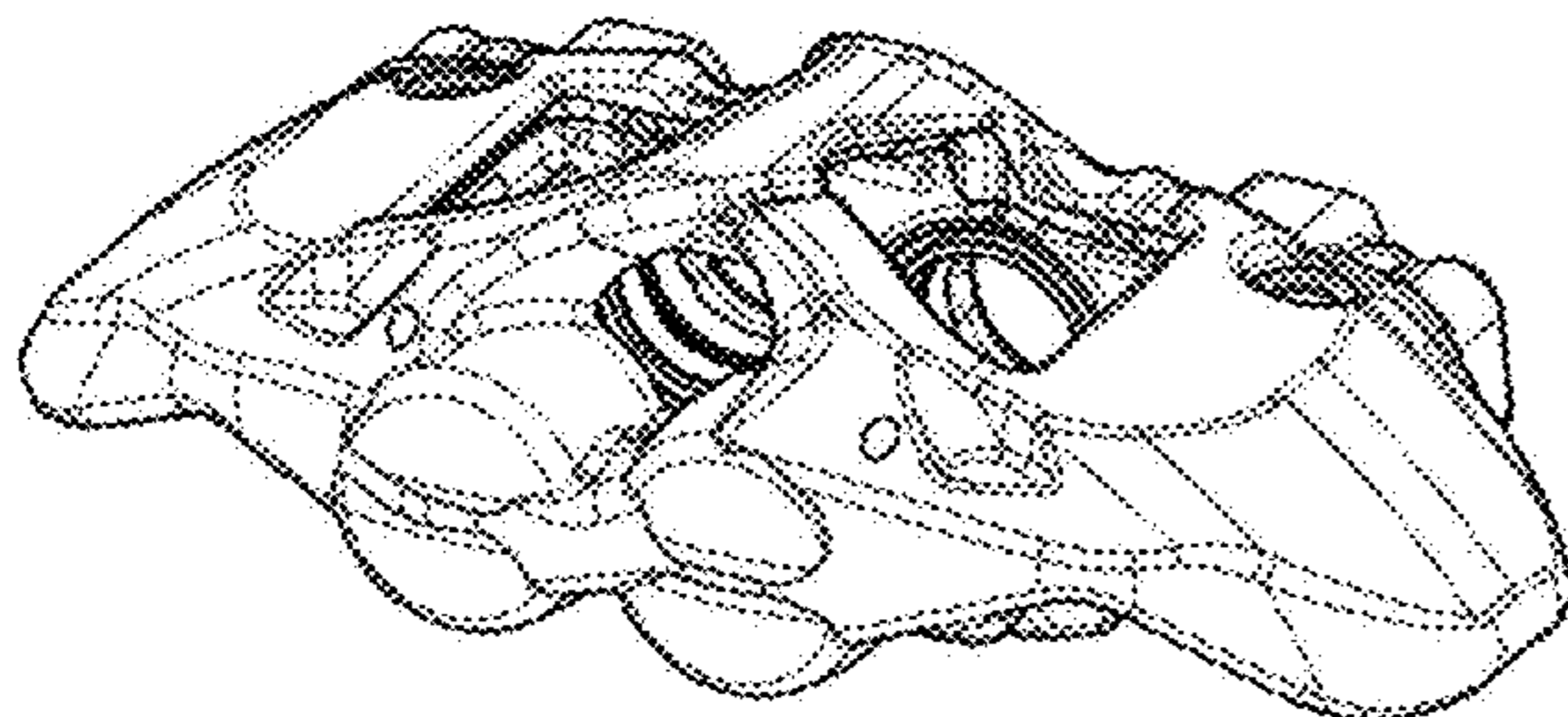
FIG. 5 is an end view thereof;

FIG. 6 is an end view thereof from an end opposite that of
FIG. 5;

FIG. 7 is a top view thereof; and,

FIG. 8 is a bottom view thereof.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

6,340,076 B1 * 1/2002 Tsuchiya F16D 55/227
188/71.1
6,722,476 B1 * 4/2004 Cornolti F16D 55/228
188/264 CC
D494,902 S * 8/2004 Wen D12/180
D506,714 S * 6/2005 Ono D12/180
6,935,468 B2 * 8/2005 Regazzoni B62K 19/38
188/71.1
D512,352 S * 12/2005 Veneziano D12/180
D522,421 S * 6/2006 Crippa D12/180
D555,555 S * 11/2007 Ikuzawa D12/180
D600,613 S * 9/2009 Jungmann D12/180
D619,063 S * 7/2010 Veneziano D12/180
D621,417 S * 8/2010 McGarry D12/126
D623,102 S * 9/2010 Gherardi D12/180
D627,694 S * 11/2010 Schulz D12/180
D630,141 S * 1/2011 Chen D12/180
8,196,716 B2 * 6/2012 Schorn F16D 55/228
188/370
8,469,159 B2 * 6/2013 Lowe F16D 55/227
188/71.1
D686,955 S * 7/2013 Asakura D12/180
D692,356 S * 10/2013 Owen D12/180
8,544,613 B2 * 10/2013 Cantoni F16D 55/2262
188/73.31
8,887,875 B2 * 11/2014 Gherardi F16D 55/224
188/71.1
9,371,874 B2 * 6/2016 Previtali F16D 55/228
2004/0154882 A1 * 8/2004 Vezzoli F16D 65/095
188/73.38
2004/0216967 A1 * 11/2004 Veneziano F16D 55/228
188/72.5
2004/0216968 A1 * 11/2004 Donadoni F16D 65/092
188/73.47
2004/0238296 A1 * 12/2004 Gotti F16D 65/00
188/73.1
2005/0115780 A1 * 6/2005 Nanri F16D 55/228
188/73.46
2005/0161290 A1 * 7/2005 Donadoni F16D 66/021
188/1.11 L
2007/0272502 A1 * 11/2007 Kobayashi F16D 55/228
188/73.45
2007/0278049 A1 * 12/2007 Kobayashi F16D 55/228
188/73.39
2008/0017458 A1 * 1/2008 Aydt F16D 55/00
188/73.1
2008/0029351 A1 * 2/2008 Gruber F16D 55/227
188/18 A
2008/0185243 A1 * 8/2008 Previtali F16D 55/22
188/250 B
2009/0071767 A1 * 3/2009 Bass F16D 55/228
188/72.5
2010/0032250 A1 * 2/2010 Cantoni F16D 55/2262
188/72.3

2010/0084226 A1 * 4/2010 Maestrini F16D 55/228
188/71.6
2012/0145492 A1 * 6/2012 Gherardi F16D 55/224
188/73.31
2013/0020155 A1 * 1/2013 Crippa F16D 55/228
188/73.31
2013/0037357 A1 * 2/2013 Cornolti F16D 65/14
188/72.3
2013/0092481 A1 * 4/2013 Crippa F16D 55/228
188/73.31
2013/0213747 A1 * 8/2013 Scotti F16D 55/228
188/73.31
2013/0277158 A1 * 10/2013 Previtali F16D 55/228
188/73.47
2014/0097050 A1 * 4/2014 Crippa F16D 55/22655
188/73.44
2014/0158483 A1 * 6/2014 Miyahara F16D 55/228
188/73.47
2014/0251737 A1 * 9/2014 Nanri B60T 1/065
188/72.5
2014/0299424 A1 * 10/2014 Arakane F16D 65/095
188/73.32
2015/0021124 A1 * 1/2015 Preda F16D 55/228
188/71.6
2015/0021125 A1 * 1/2015 Nessi F16D 55/228
188/72.5
2015/0027821 A1 * 1/2015 Nessi F16D 55/224
188/72.3
2015/0027822 A1 * 1/2015 Cerutti F16D 55/228
188/73.47
2015/0114770 A1 * 4/2015 Arrigoni B60T 13/745
188/106 F
2015/0122597 A1 * 5/2015 Shimamura F16D 55/228
188/72.4
2015/0260244 A1 * 9/2015 Maehara F16D 65/0087
188/72.4
2016/0101685 A1 * 4/2016 Darpino B60K 15/0406
220/254.2
2016/0116009 A1 * 4/2016 Falter F16D 55/22
188/73.38
2016/0131213 A1 * 5/2016 Comenduli F16D 65/18
188/71.8
2016/0208872 A1 * 7/2016 Morio F16D 65/18

OTHER PUBLICATIONS

Disc Brake Calipers, image post date Mar. 23, 2015, site visited Sep. 22, 2016, (online), <http://www.northwestoffroad.com/parts/serviceparts_brakes.php>.*
Wilwood Calipers, image post date Apr. 25 2010, site visited Sep. 22, 2016, (online), <<http://web.archive.org/web/20100425012510/http://www.wilwood.com/Calipers/CaliperListLanding.aspx>>.*
Brembo Performance B-M8 and B-M4 Brake Calipers, image post date Nov. 3, 2015, site visited Sep. 22, 2016, (online), <<https://blog.racetechologies.com/tag/featured/>>.*

* cited by examiner

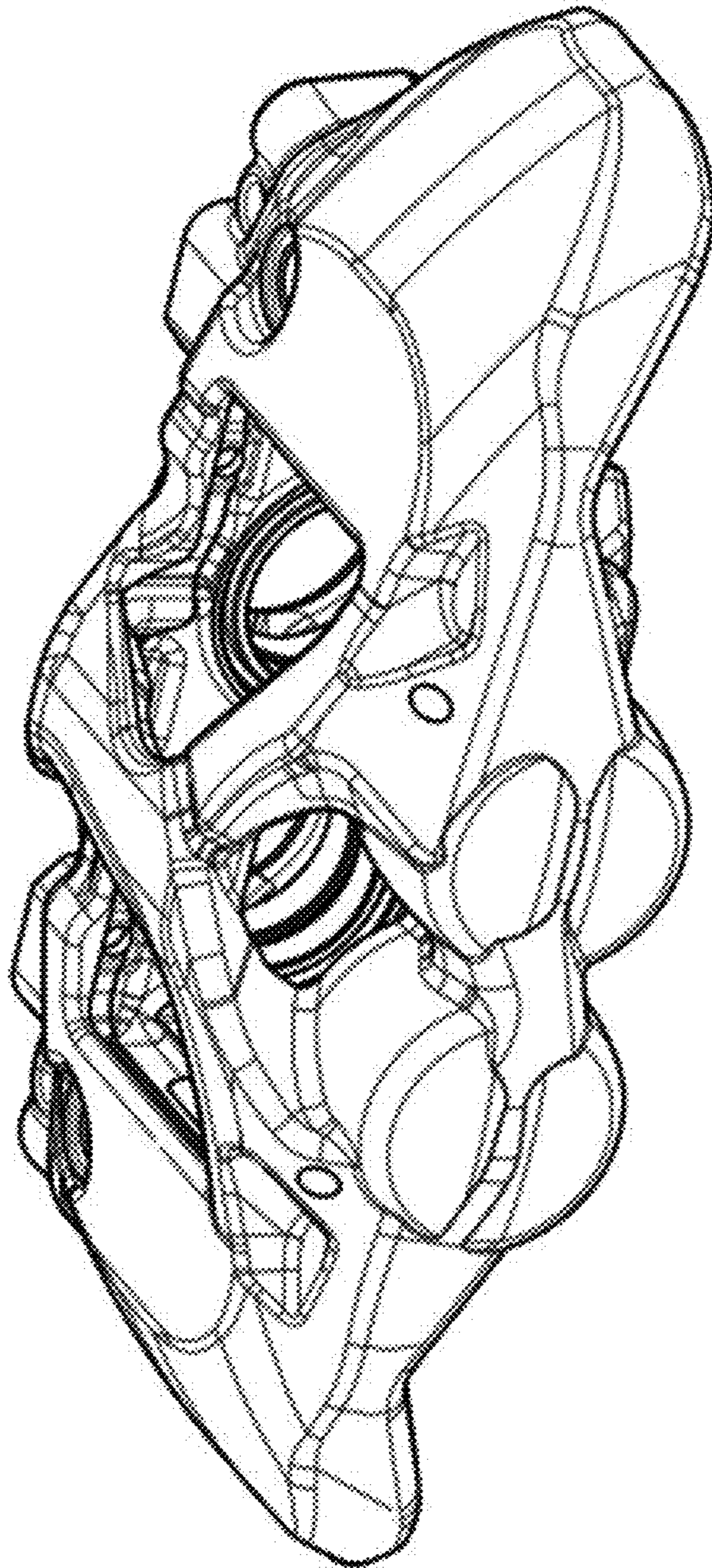


FIG. 1

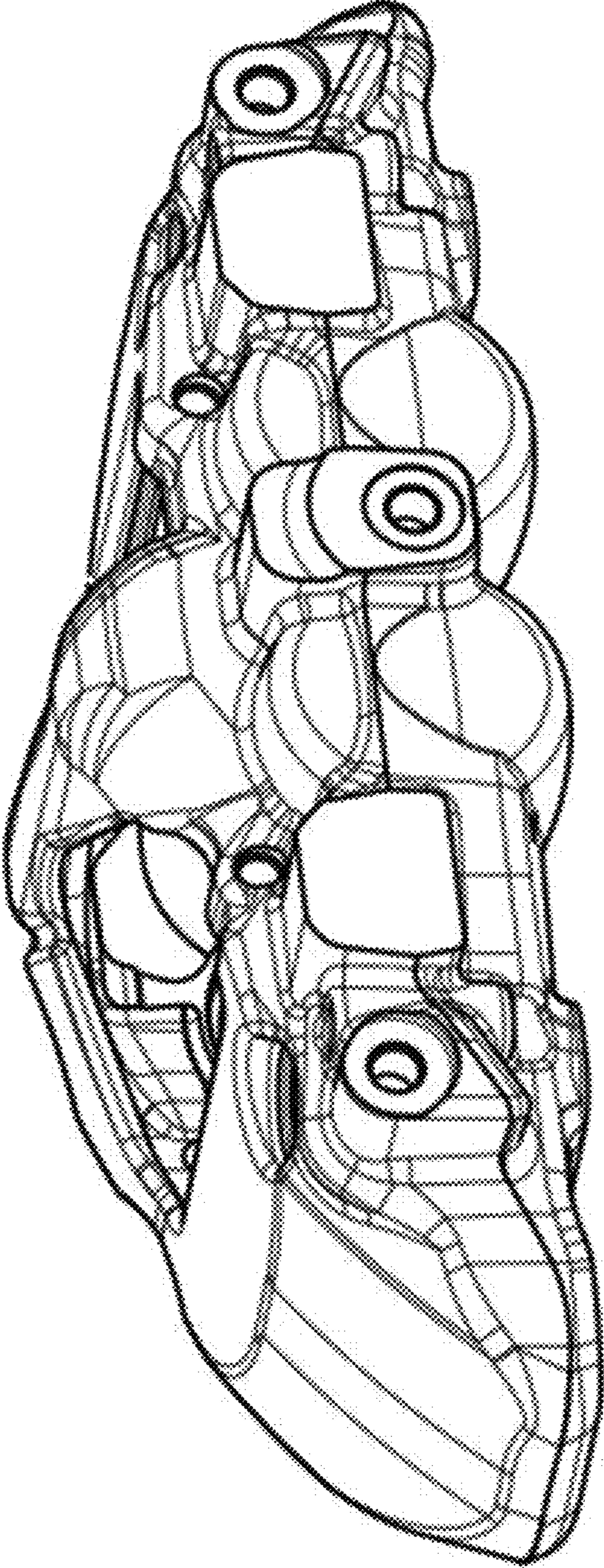


FIG. 2

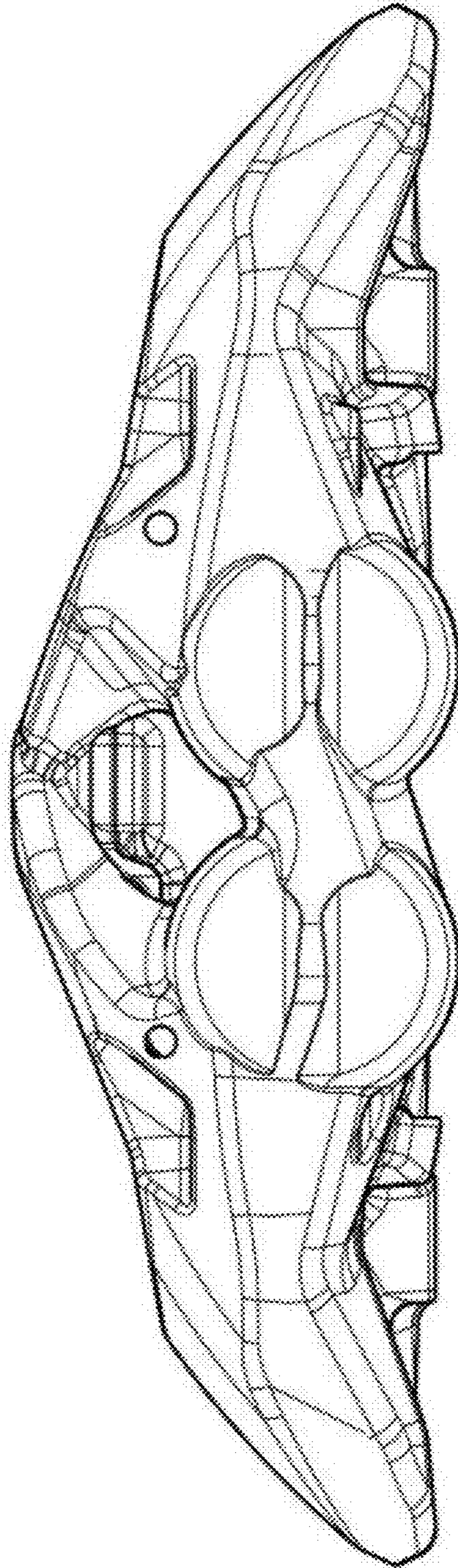


FIG. 3

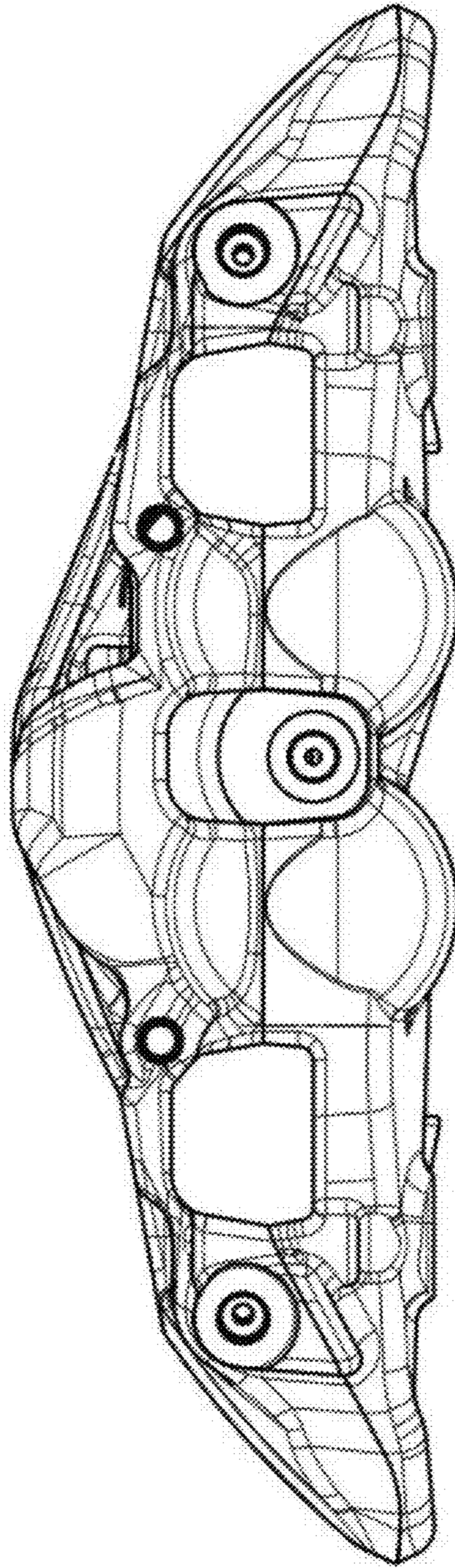


FIG. 4

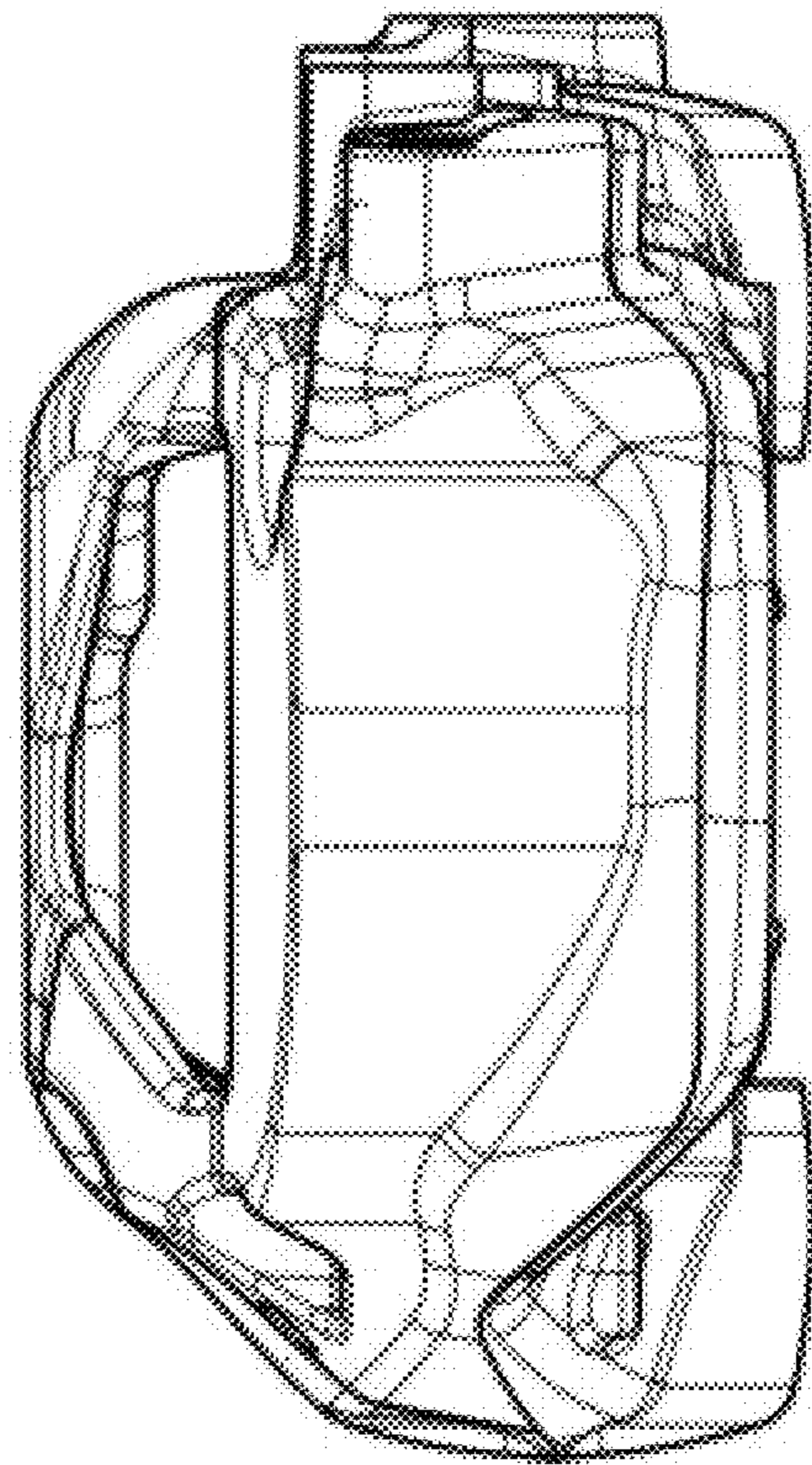


FIG. 5

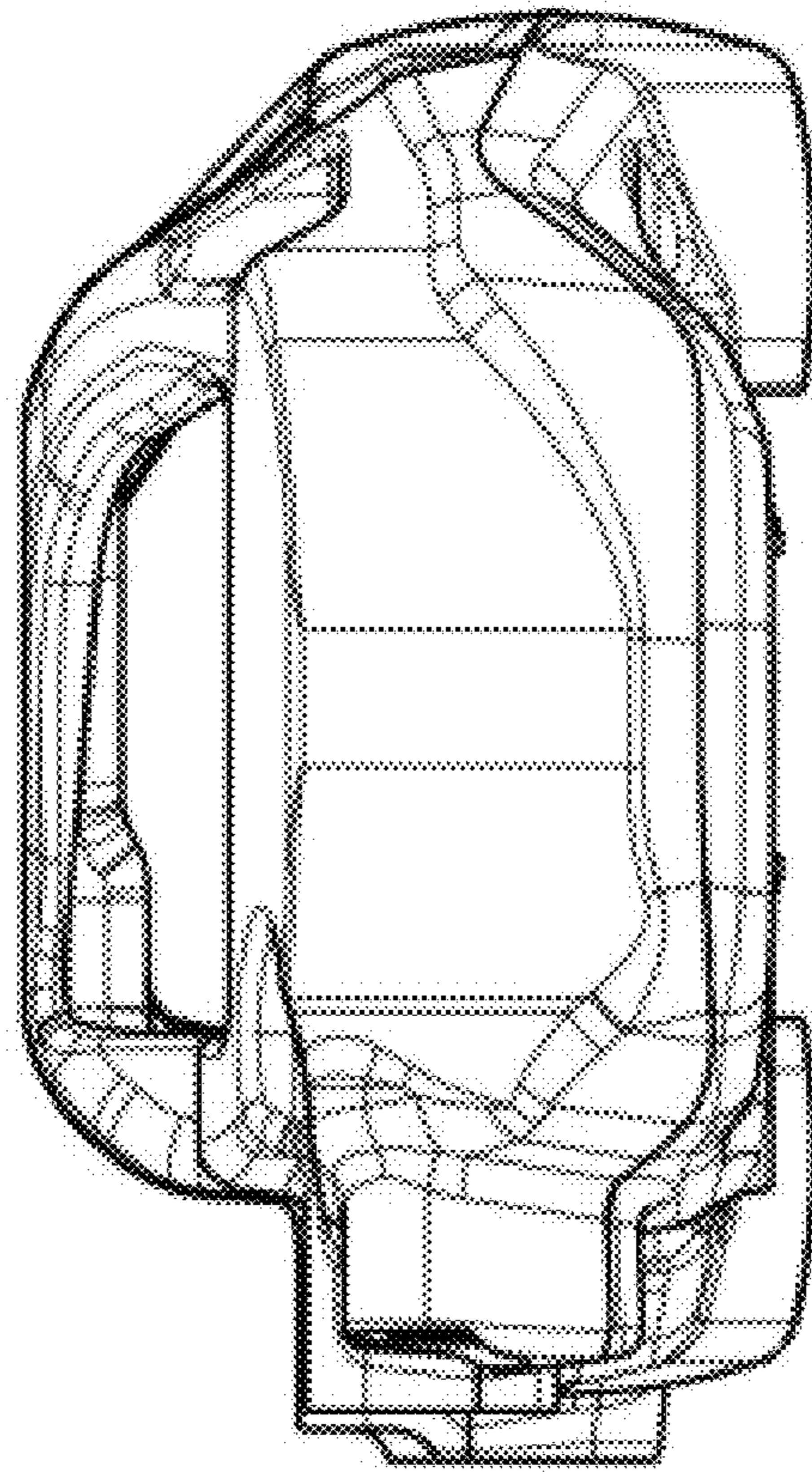


FIG. 6

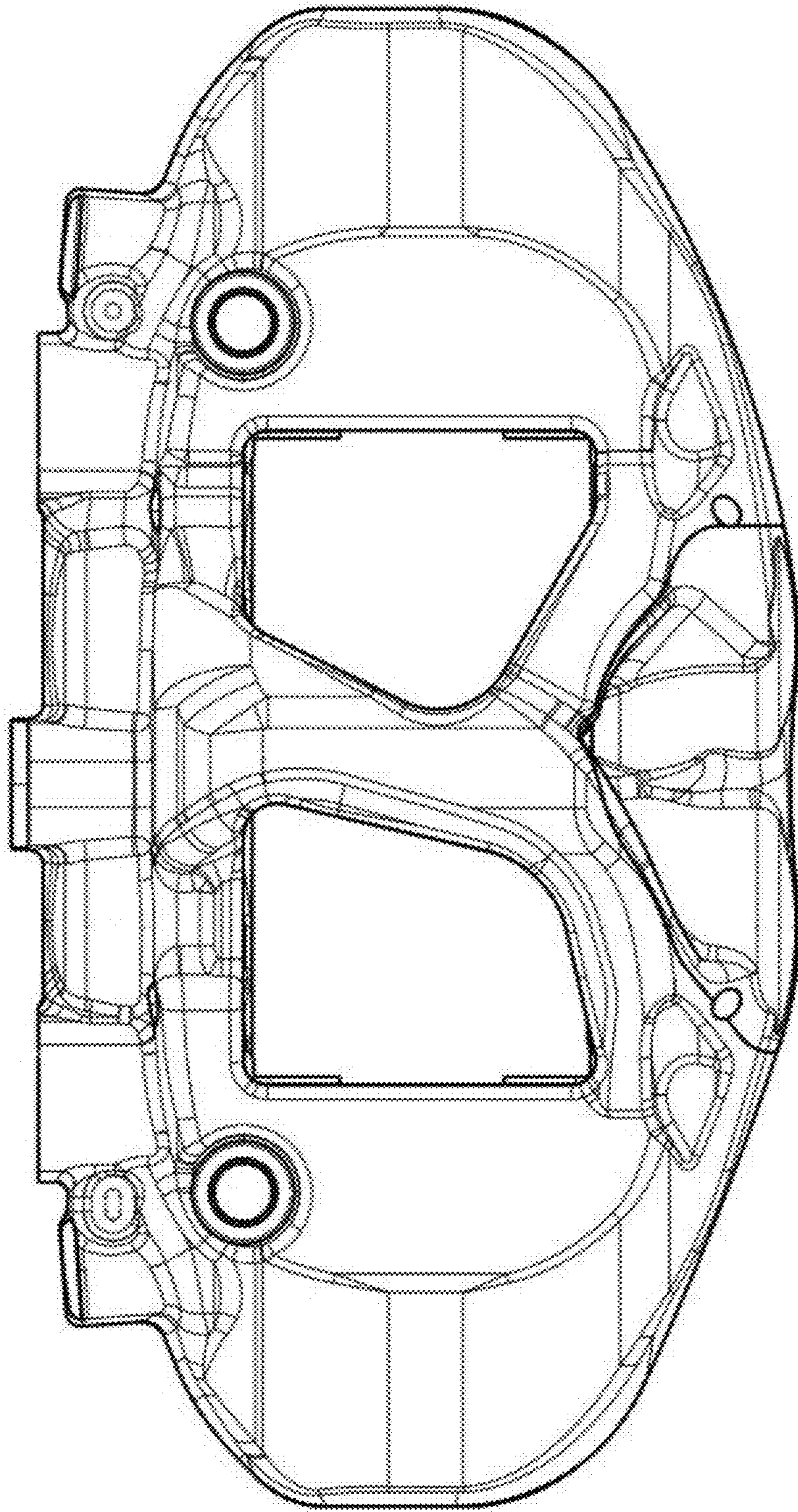


FIG. 7

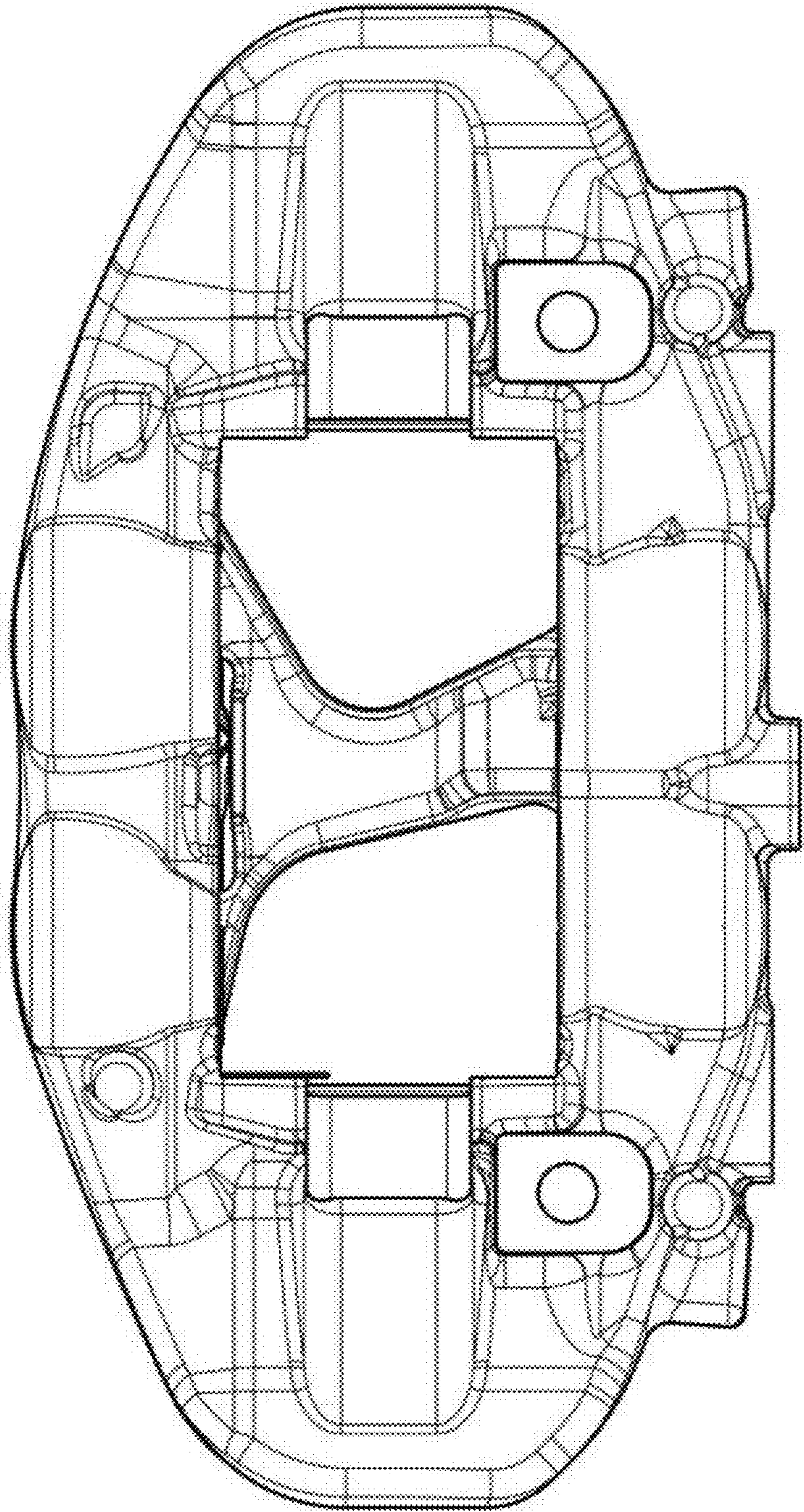


FIG. 8