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

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(54) **ROCKER FOR COMPRESSION RELIEF BRAKE**

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(73) Assignee: **Cummins Inc.**, Columbus, IN (US)
(**) Term: **15 Years**

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(52) **U.S. Cl.**
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(58) **Field of Classification Search**
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CPC . B60R 1/025; B60R 1/08; B62H 5/001; B62J 9/006; B65D 43/16; B65D 43/22; B65D 55/02; F16D 55/22; F16D 55/226; F16D 55/2262; F16D 65/14; F16D 65/16; F16D 65/18; F16D 65/22; F16D 65/38; F16D 65/56; F16D 65/567; F16D 66/02; F21S 48/00; G01S 13/931
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,379,796 A * 7/1945 Freeman F16D 65/60
188/196 BA
5,069,315 A * 12/1991 VanWeelden F16D 65/42
188/382
5,645,031 A * 7/1997 Meneely F01L 13/065
123/321

(Continued)

OTHER PUBLICATIONS

Jake Brake Model 720-721, image post date Feb. 3, 2014, site visited Jun. 26, 2017, (online), <<https://web.archive.org/web/20140203230800/http://www.jacobsvehiclesystems.com/technology/compression-release-brakes/>>.*

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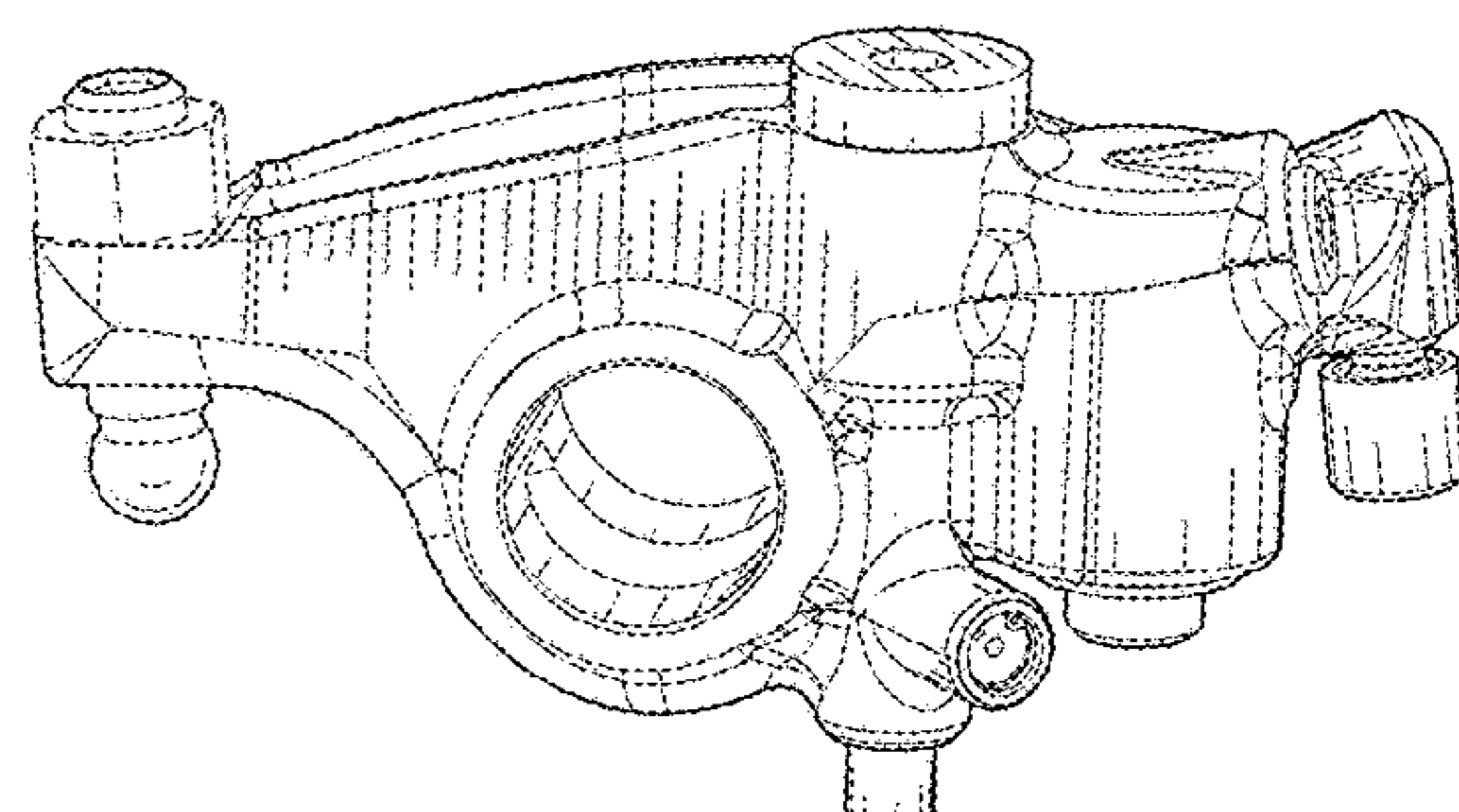
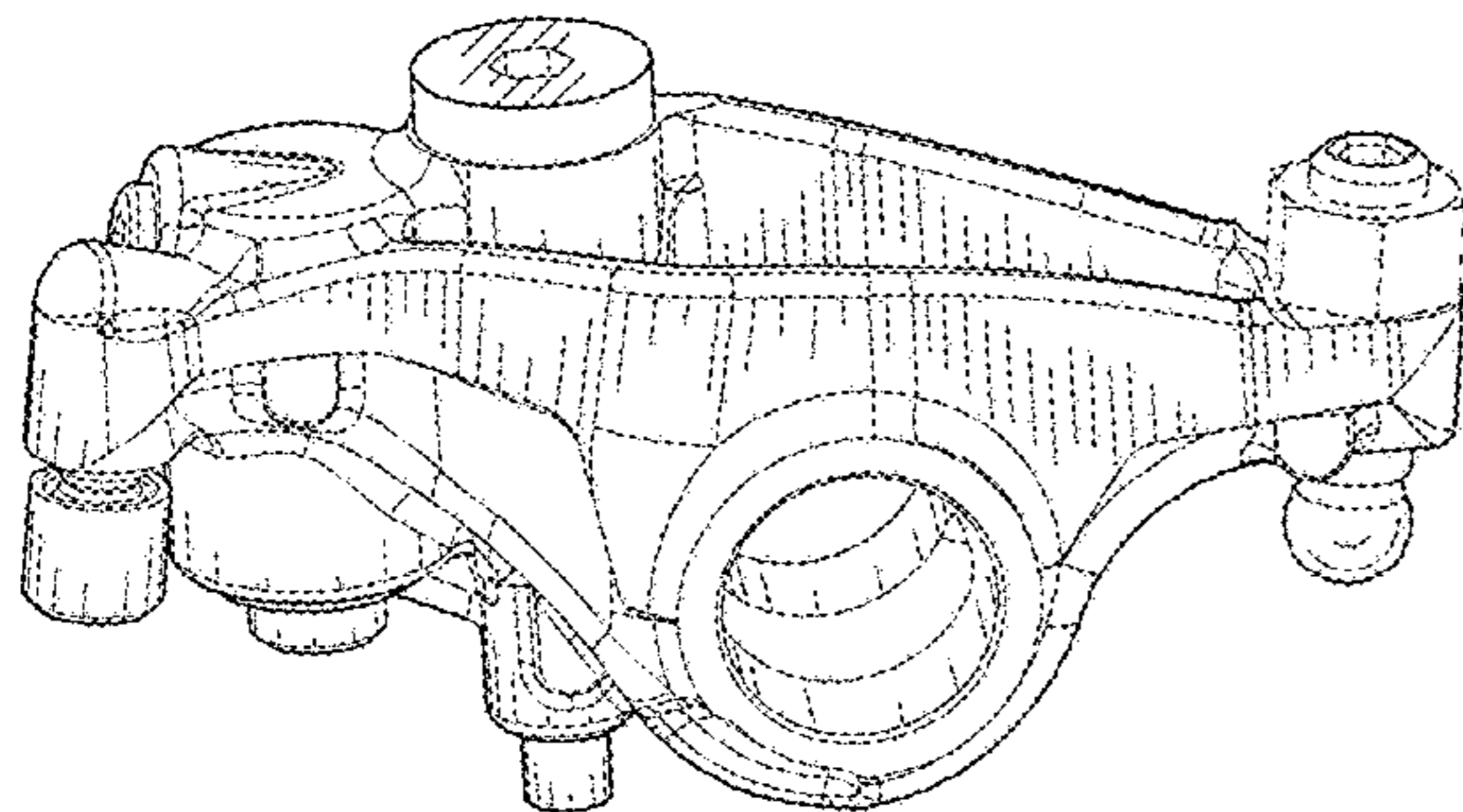
(57) **CLAIM**

The ornamental design for a rocker for compression relief brake, as shown and described.

DESCRIPTION

FIG. 1 is a rear perspective view of the rocker for compression relief brake of the present invention.
FIG. 2 is a front perspective view of the rocker for compression relief brake of the present invention.
FIG. 3 is a front elevation view of the rocker for compression relief brake of FIG. 1.
FIG. 4 is a rear elevation view of the rocker for compression relief brake of FIG. 1.
FIG. 5 is a top elevation view of the rocker for compression relief brake of FIG. 1.
FIG. 6 is a bottom elevation view of the rocker for compression relief brake of FIG. 1.
FIG. 7 is a left side elevation view of the rocker for compression relief brake of FIG. 1; and,
FIG. 8 is a right side elevation view of the rocker for compression relief brake of FIG. 1.
FIGS. 1-8 show portions of the rocker for compression relief brake and its environment during use in phantom lines. The phantom lines show elements that form no part of the claimed design.

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D382,842 S * 8/1997 Nishimura D12/179
 6,062,349 A * 5/2000 Boisseau F16D 55/22655
 188/370
 6,305,509 B1 * 10/2001 Concialdi F16D 55/22
 188/205 R
 7,216,745 B2 * 5/2007 Baylis F16D 65/092
 188/73.31
 D544,818 S * 6/2007 Costa D12/118
 D547,243 S * 7/2007 Matsumura D12/118
 D562,112 S * 2/2008 Harrell D8/354
 D605,985 S * 12/2009 Pennala D12/160
 7,900,942 B2 * 3/2011 Koschinat B60G 7/001
 280/124.111
 D642,100 S * 7/2011 Crippa D12/180
 8,230,831 B2 * 7/2012 Persson F01L 1/181
 123/90.16
 8,251,188 B2 * 8/2012 Teper F16D 55/22655
 188/73.39
 8,528,508 B2 * 9/2013 Meistrick F01L 1/08
 123/90.16
 D725,793 S * 3/2015 Nosworthy D25/68
 9,115,654 B2 * 8/2015 Schnell F01L 1/181
 D752,109 S * 3/2016 Harriton D15/5
 D770,343 S * 11/2016 Hult D12/180
 9,481,426 B2 * 11/2016 Kawata B62K 25/283
 2003/0106748 A1 * 6/2003 Bunker F16D 55/28
 188/72.6
 2003/0132891 A1 * 7/2003 Winter G01S 7/4026
 343/880
 2004/0040793 A1 * 3/2004 Feng B60T 11/046
 188/2 D
 2005/0051985 A1 * 3/2005 Kim B62D 7/18
 280/93.512
 2005/0211506 A1 * 9/2005 Painchaud F16D 65/28
 184/104.1
 2005/0242540 A1 * 11/2005 Gottschalk B62D 7/18
 280/93.512
 2008/0000732 A1 * 1/2008 Chen F16D 49/16
 188/74

2008/0062038 A1 * 3/2008 Ouchi G01S 7/032
 342/175
 2008/0129106 A1 * 6/2008 Brinker B23B 5/02
 301/105.1
 2008/0284122 A1 * 11/2008 Kwon B62D 7/18
 280/93.511
 2010/0083644 A1 * 4/2010 Biedler F01N 13/1822
 60/299
 2011/0240419 A1 * 10/2011 Moore F16D 65/14
 188/73.42
 2011/0315125 A1 * 12/2011 Lohr F02M 35/10229
 123/519
 2013/0269652 A1 * 10/2013 Toth F01L 1/181
 123/323
 2013/0275018 A1 * 10/2013 Todd F16D 66/00
 701/70
 2014/0015214 A1 * 1/2014 Galazin B60G 9/003
 280/124.128
 2014/0345983 A1 * 11/2014 Baumgartner F16D 55/02
 188/73.31
 2015/0144096 A1 * 5/2015 Meneely F01L 1/18
 123/321
 2016/0010710 A1 * 1/2016 Kuo F16D 65/0075
 188/72.8
 2016/0017946 A1 * 1/2016 Sandberg F16D 65/18
 188/71.8
 2017/0121063 A1 * 5/2017 Ledun B65D 39/082
 2017/0167553 A1 * 6/2017 Sim F16D 65/18

OTHER PUBLICATIONS

Model OM471 Engine Brake, image post date Sep. 2011, site visited Jun. 26, 2017, (online), <<http://www.jacobsvehiclesystems.com/news/model-om471-engine-brake-mercedes-benz-13-liter-engine/>>.*

Rocker Arm 5135268-5135267 Detroit Diesel, image post date Oct. 29, 2014, site visited Jun. 26, 2017, (online), <<https://web.archive.org/web/20141029060105/http://dieseloverhaul.com/engine-kits/detroit-diesel/detroit-diesel-series-53/non-turbo-series-53.html>>.*

* cited by examiner

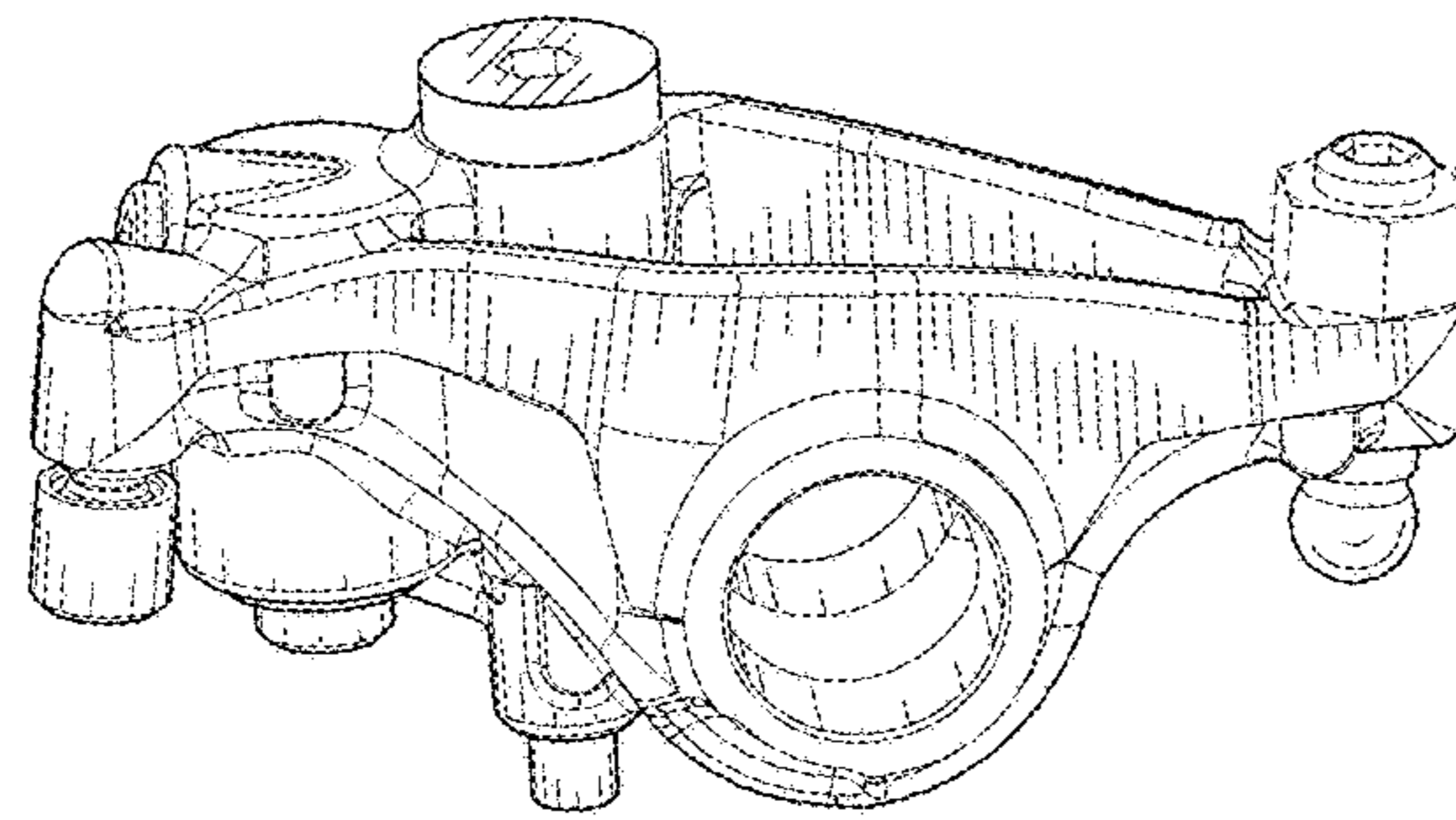


Fig. 1

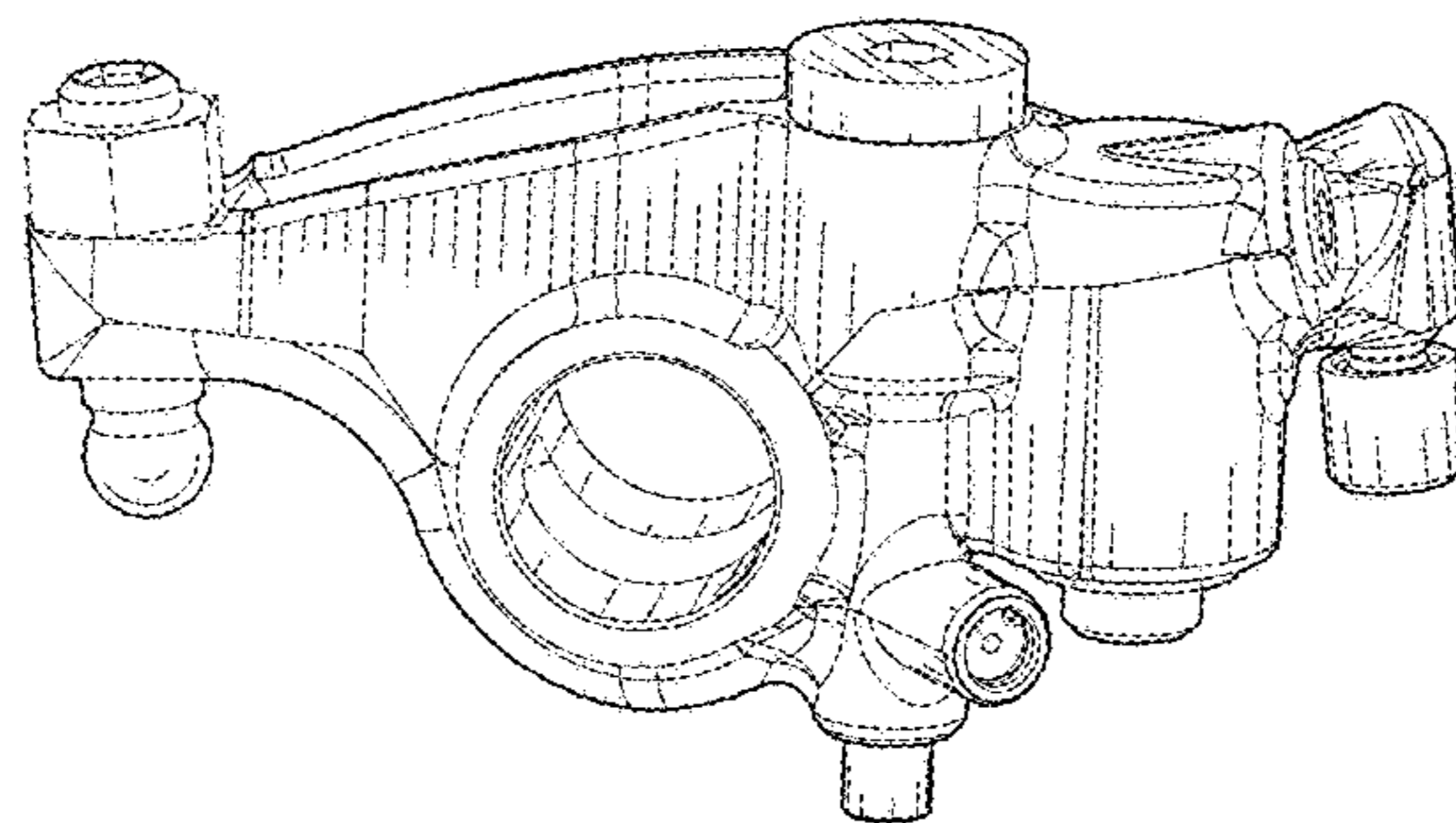


Fig. 2

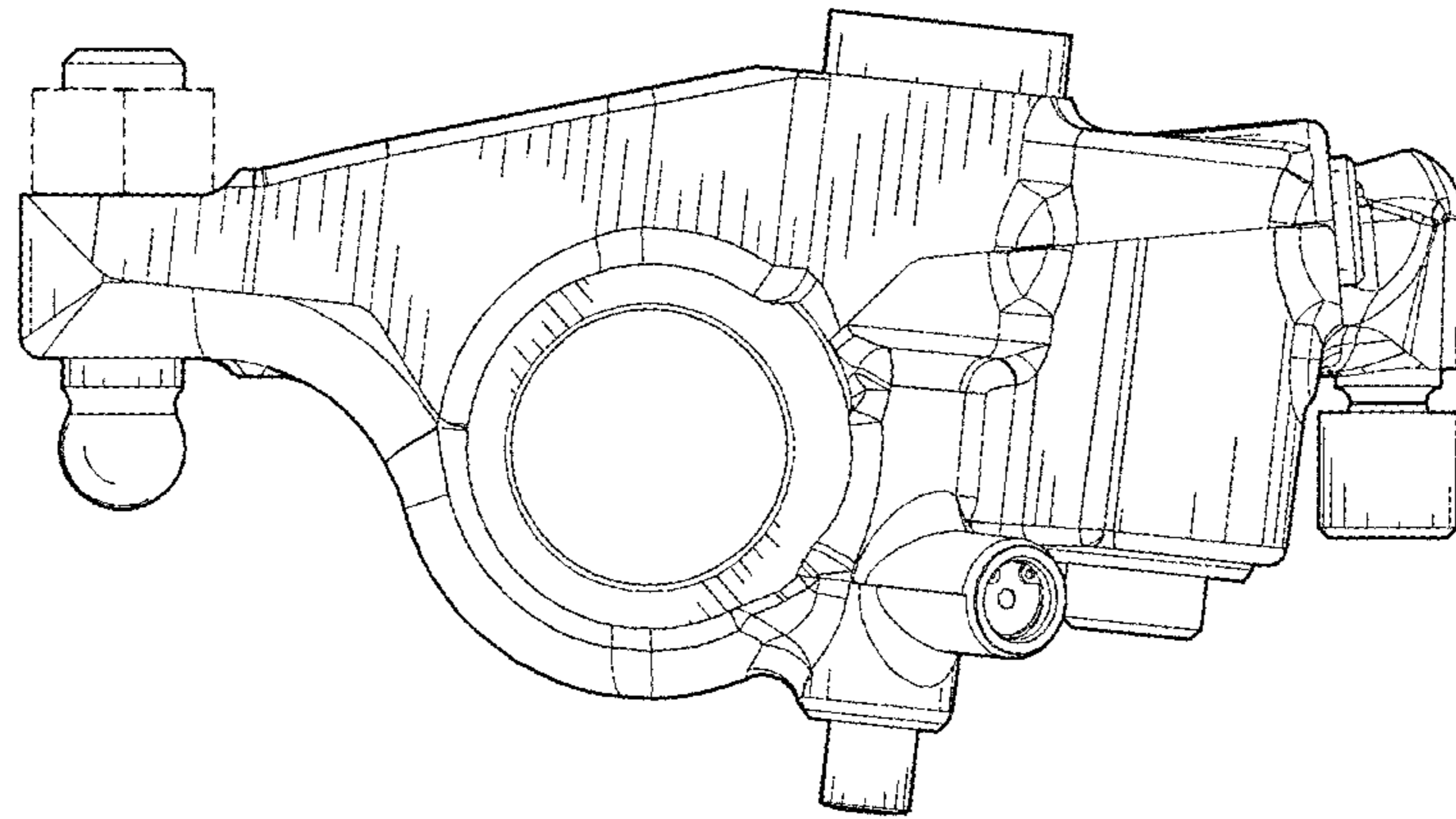


Fig. 3

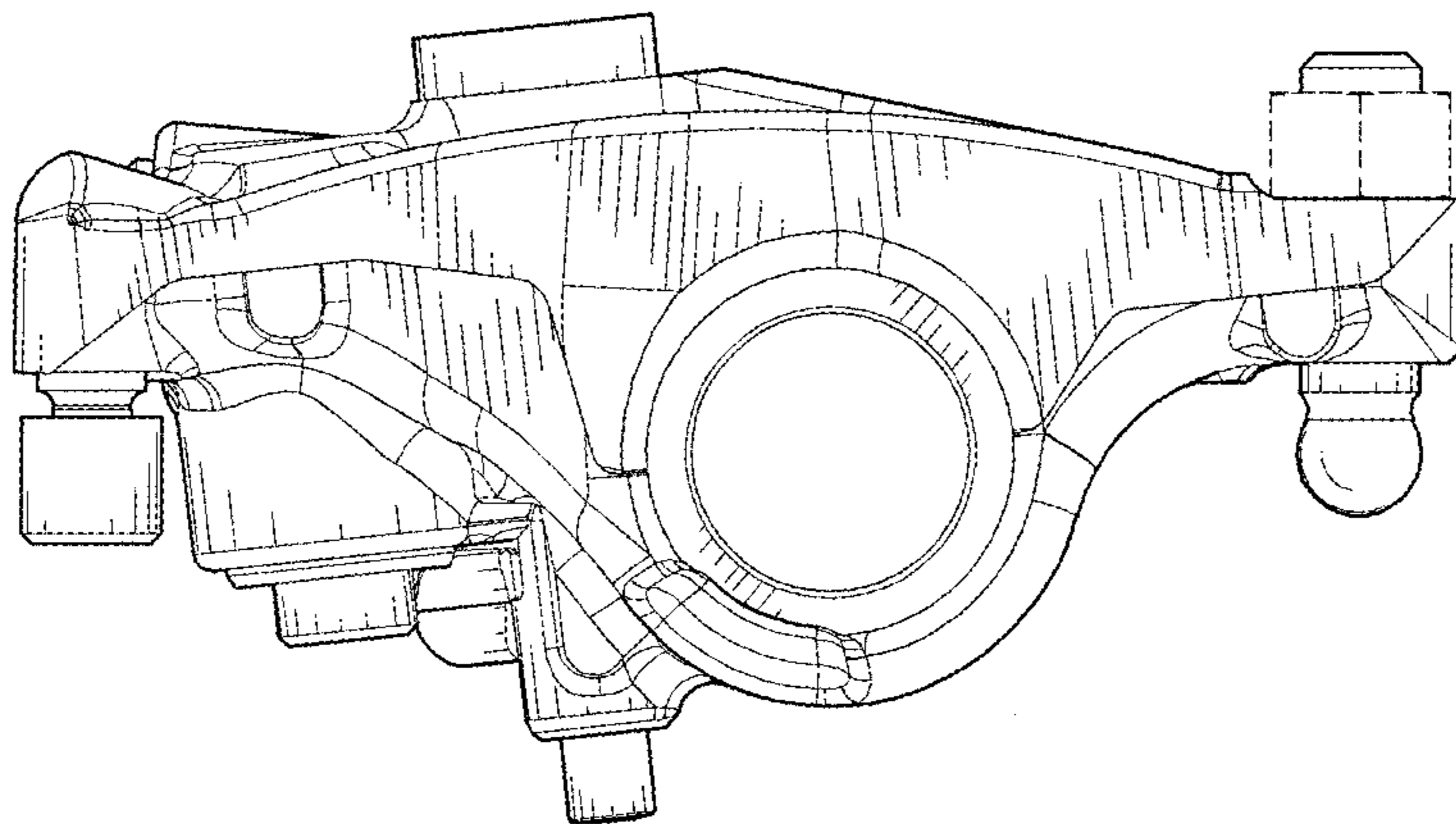


Fig. 4

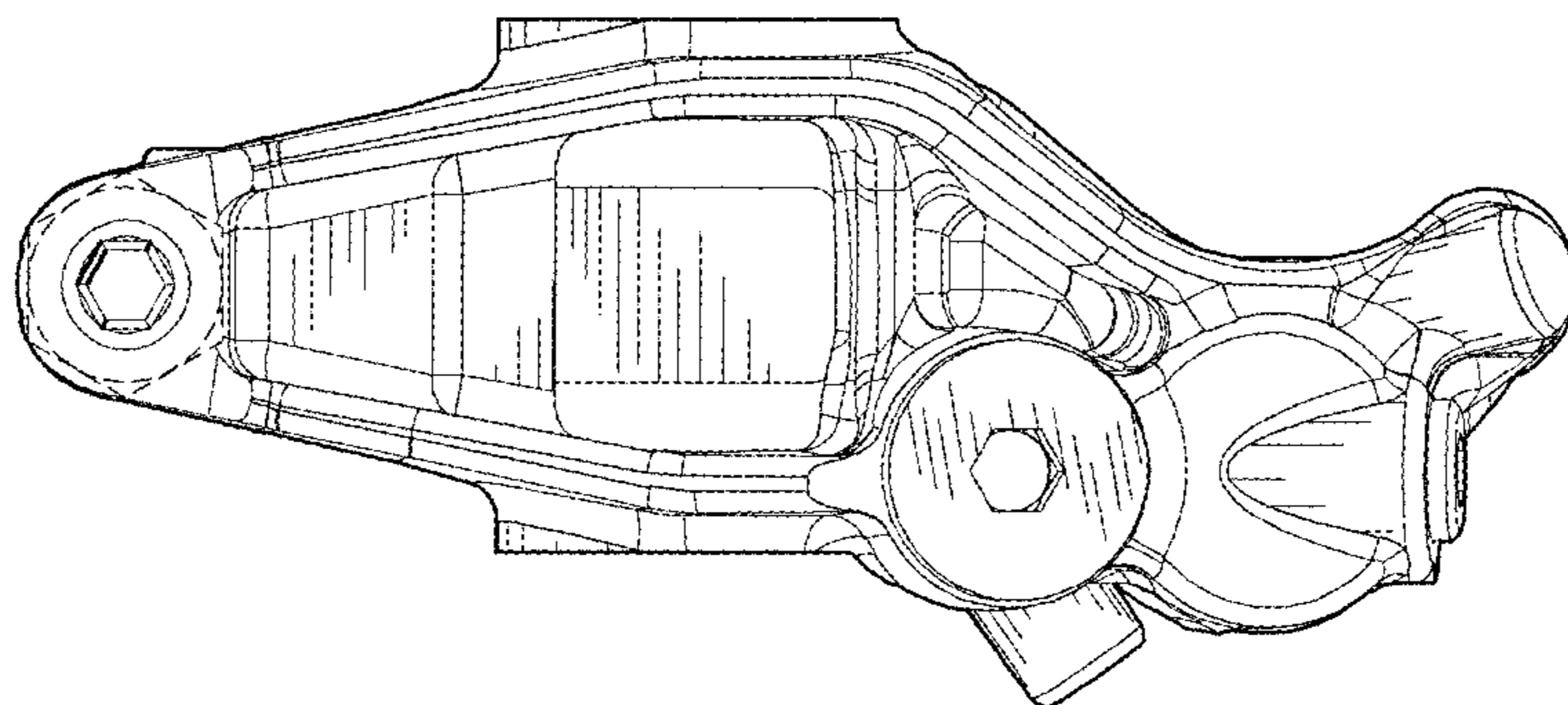


Fig. 5

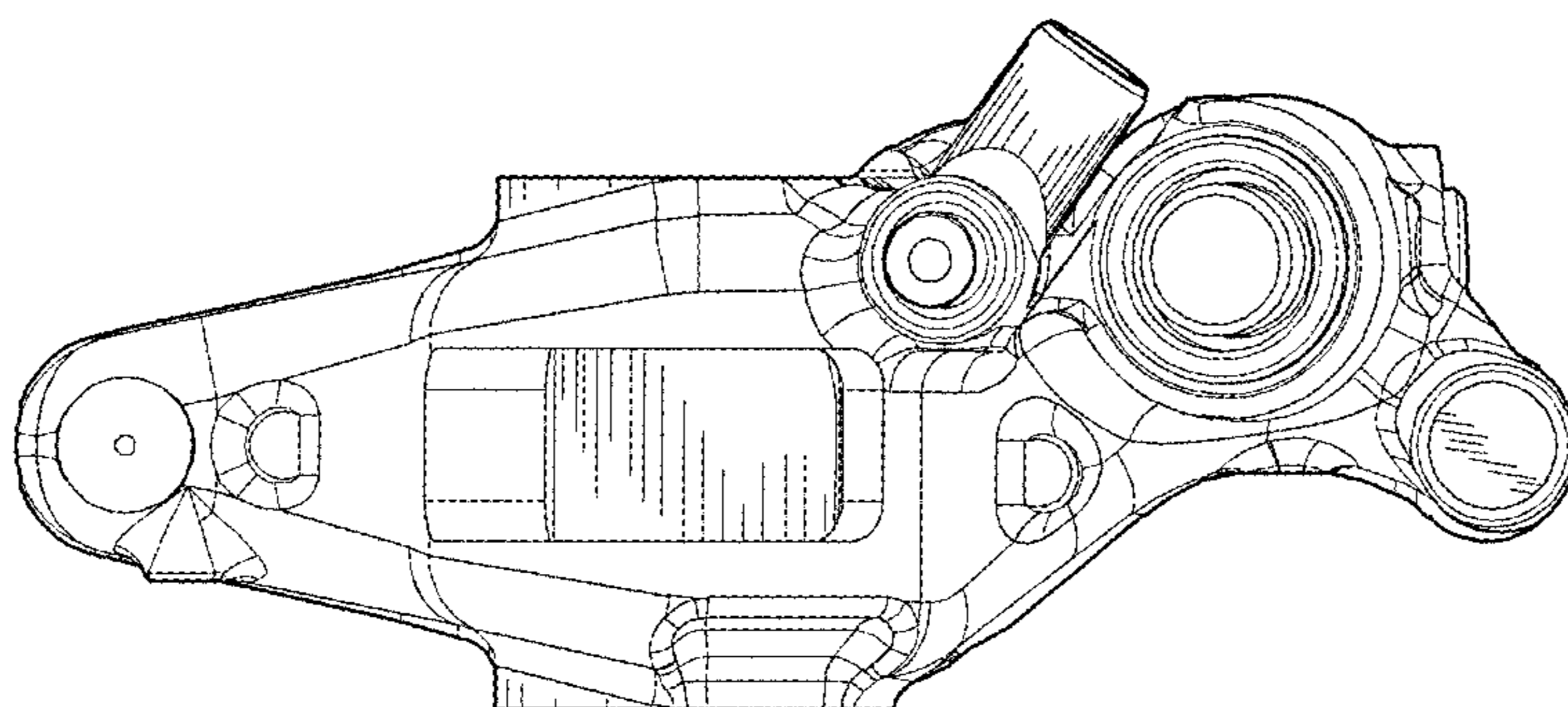


Fig. 6

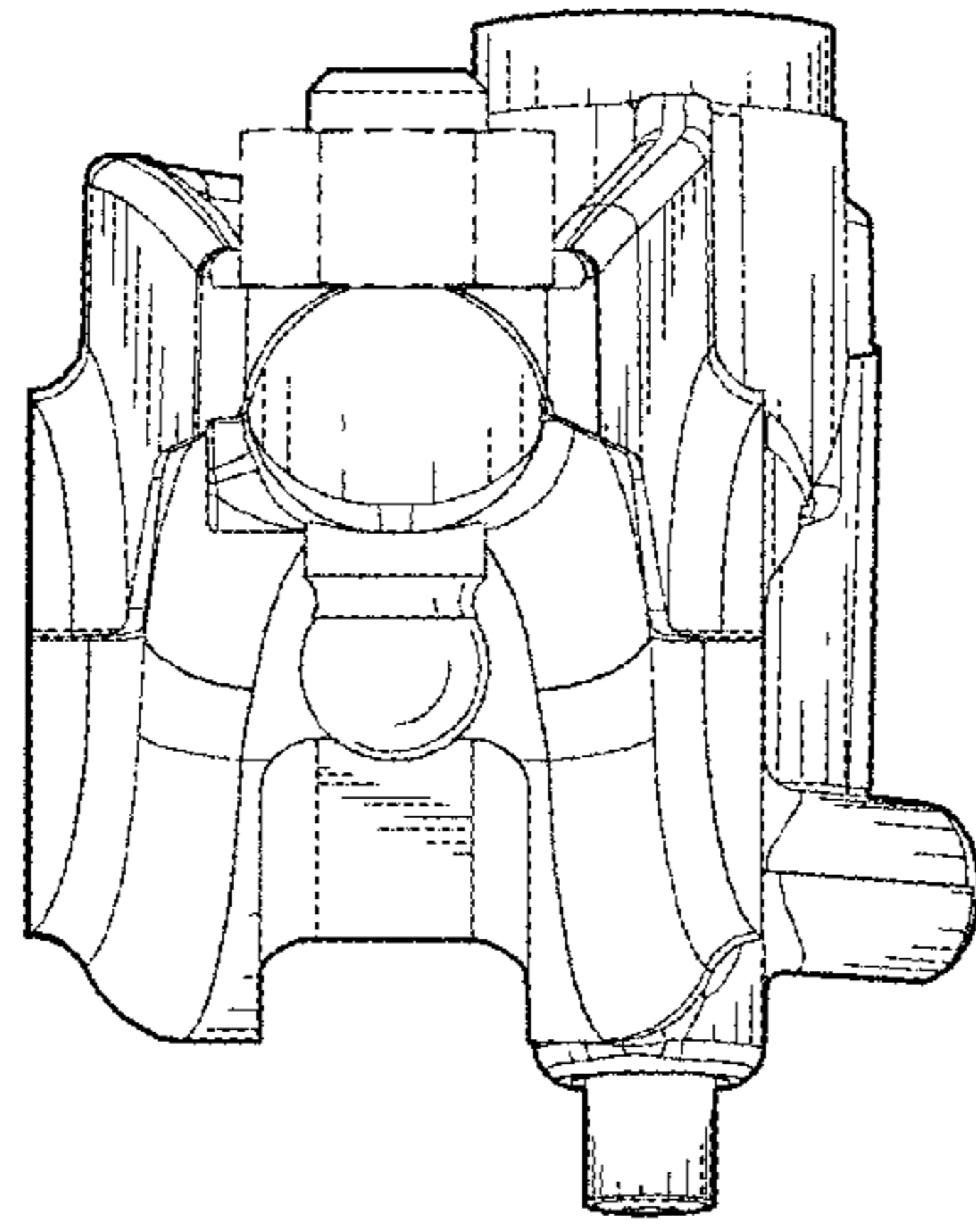


Fig. 7

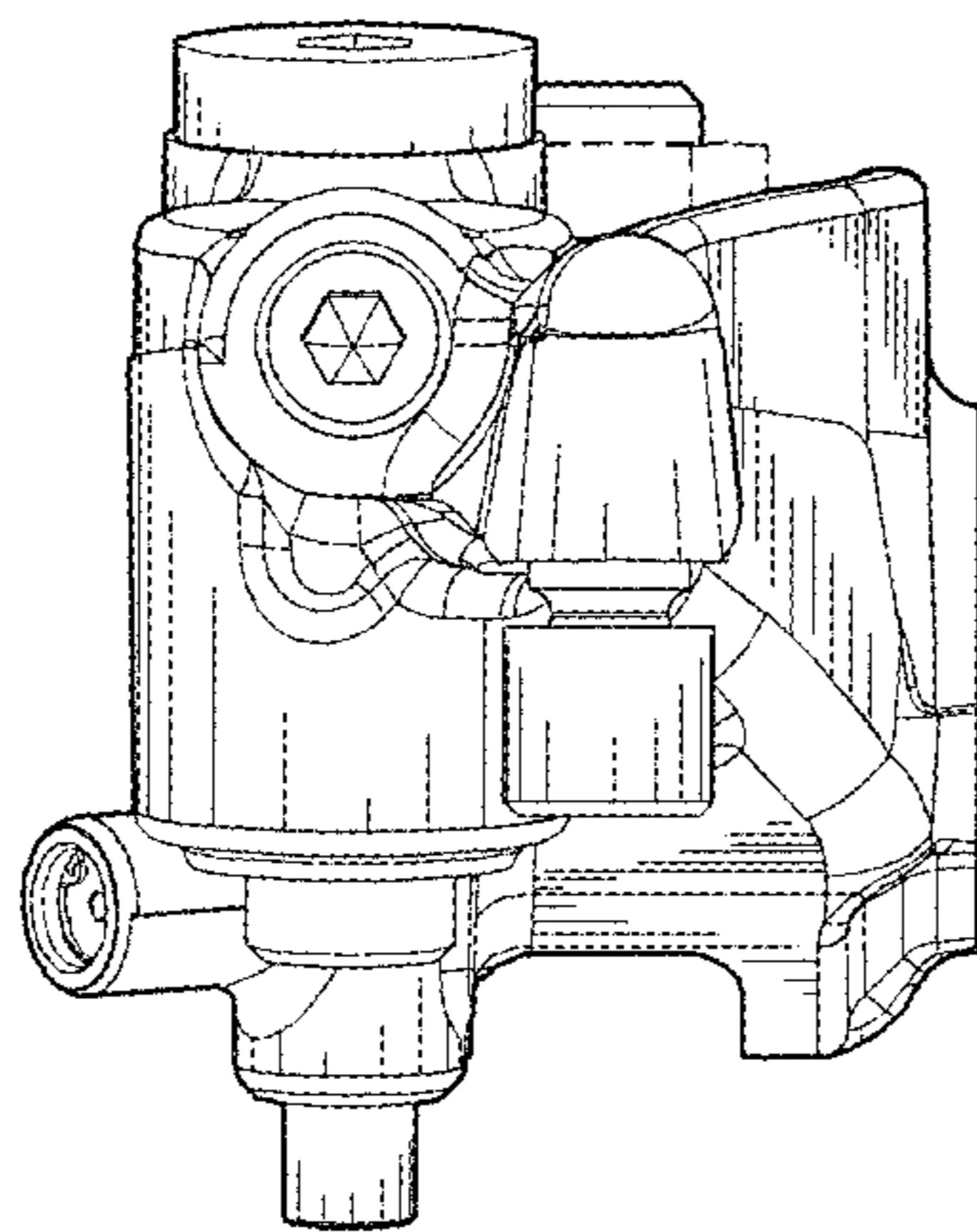


Fig. 8