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(12) **United States Design Patent** (10) **Patent No.:** **US D832,166 S**
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(54) **BRAKE DISC FOR MOTORCYCLES**

(71) Applicant: **KAWASAKI JUKOGYO KABUSHIKI KAISHA**, Kobe-shi, Hyogo (JP)

(72) Inventors: **Minoru Kobayashi**, Kakogawa (JP); **Akira Takasu**, Akashi (JP)

(73) Assignee: **KAWASAKI JUKOGYO KABUSHIKI KAISHA** (JP)

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(51) **LOC (11) Cl.** **12-16**

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

(58) **Field of Classification Search**

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CPC .. B32B 3/06; B60R 1/025; B60R 1/08; B60T 1/06; B60T 7/00; B60T 8/265; B60T 11/00; B60T 11/103; B60T 13/00; B60T 13/66; B60T 17/223; B60T 2201/00; B60T 2201/03; B60T 2260/00; B60T 2270/82; B60T 2270/83; B62K 23/06; B62H 5/001; B62J 9/006; B62L 1/02; B62L 3/02; B62D 13/025; B62D 21/18; B62D 53/045; B62D 63/04; B62D 65/02; B62D 65/18; B62D 43/16; B62D 43/22; B62D 55/02; F16D 55/00; F16D 55/22; F16D 65/00; F16D 65/092; F16D 65/095;

F16D 65/097; F16D 65/14; F16D 65/16; F16D 65/18; F16D 65/22; F16D 65/38; F16D 65/56; F16D 65/847; F16D 66/02; F21S 48/00; F42B 10/64; G01S 13/931

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,536,167 A 10/1970 Bernhard
4,336,076 A 6/1982 Edamura et al.
D381,609 S * 7/1997 Ohata D12/180
D381,610 S 7/1997 Ohata et al.
D381,611 S 7/1997 Ohata et al.

(Continued)

OTHER PUBLICATIONS

Motorcycle brake disc rotor for honda cbr600, image post date 1991, site visited , (online), <<http://croootz.expandlive.site/motorbike-brake-discs/>>.*

(Continued)

Primary Examiner — Kevin K Rudzinski
Assistant Examiner — Sean D Lough

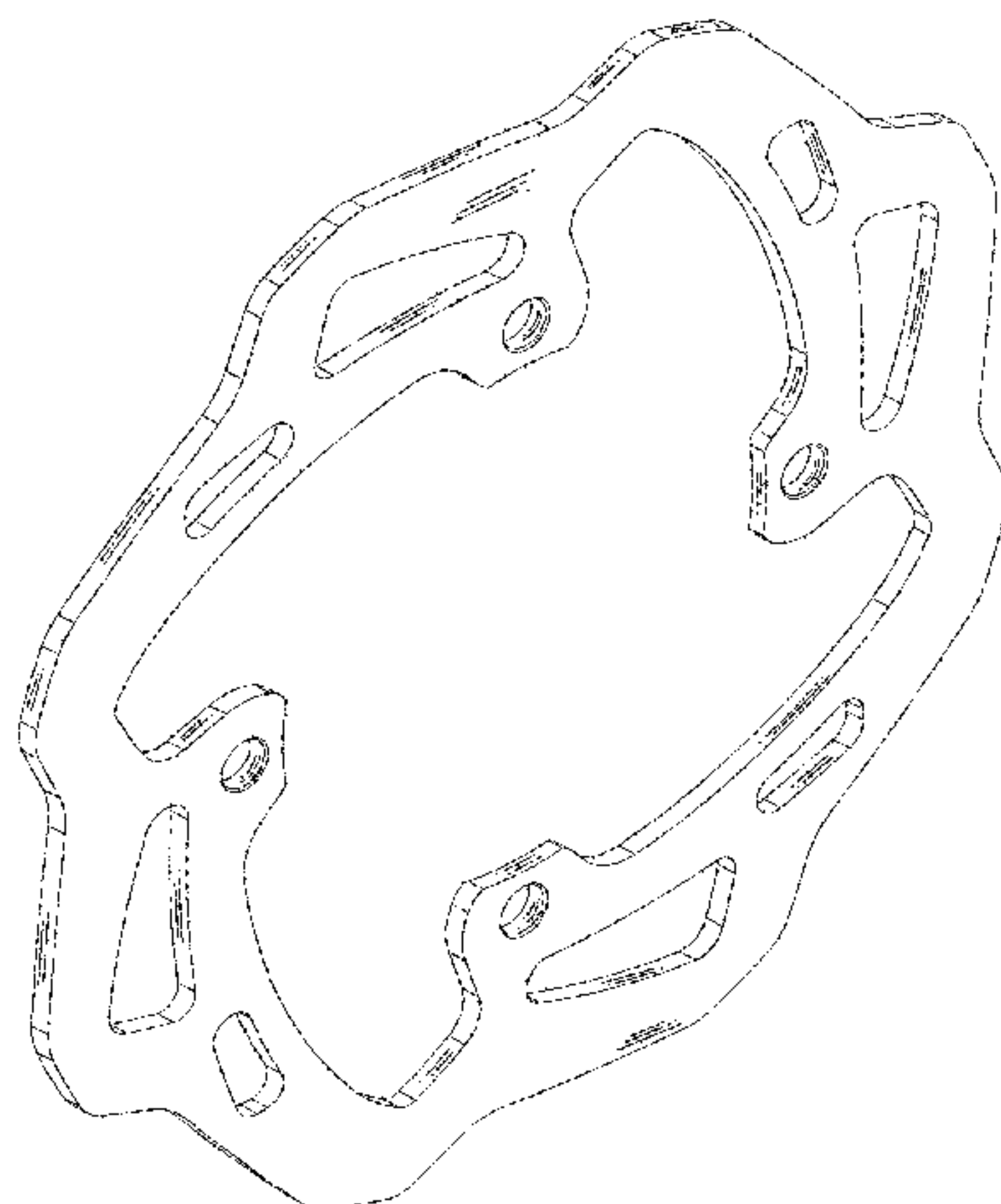
(57) **CLAIM**

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

DESCRIPTION

FIG. 1 is a front elevation view of our new design for the brake disc for motorcycles;
FIG. 2 is a rear elevation view thereof;
FIG. 3 is a left side elevation view thereof;
FIG. 4 is a right side elevation view thereof;
FIG. 5 is a top plan view thereof;
FIG. 6 is a bottom plan view thereof
FIG. 7 is a front left perspective view thereof; and,
FIG. 8 is a rear right perspective view thereof.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,797,660 A 8/1998 Johnson
 5,897,170 A 4/1999 Keleny
 D413,092 S 8/1999 Johnson et al.
 D413,093 S 8/1999 Johnson et al.
 5,980,407 A 11/1999 Takamori et al.
 6,095,293 A 8/2000 Brundrett et al.
 D446,177 S 8/2001 Ueno
 6,273,223 B1 8/2001 Aloy
 6,283,257 B1 9/2001 Lee
 6,308,650 B1 10/2001 Tsumiyana et al.
 6,360,864 B1 * 3/2002 Thomas F16D 13/64
 192/107 R
 D455,686 S 4/2002 Aloy
 6,386,340 B1 5/2002 Milesi et al.
 6,467,589 B2 10/2002 Seymour
 6,520,297 B1 2/2003 Lumpkin et al.
 6,530,457 B1 3/2003 Nago et al.
 D476,608 S 7/2003 Aloy
 6,745,874 B1 6/2004 Huang
 D501,437 S 2/2005 Okabe
 D508,882 S 8/2005 Cornolti et al.
 D509,173 S 9/2005 Cornolti et al.
 6,957,726 B2 10/2005 Gehrs
 6,964,323 B2 11/2005 Campbell
 D520,912 S 5/2006 Knight et al.
 D521,428 S 5/2006 Campbell et al.
 7,055,323 B2 6/2006 Idei et al.
 D524,201 S * 7/2006 Okabe D12/180
 D541,717 S 5/2007 Chen
 D549,136 S * 8/2007 Yu D12/110
 7,284,643 B1 10/2007 Kao
 D557,187 S 12/2007 Johnson et al.
 D559,155 S * 1/2008 Sakata D12/110
 7,331,433 B2 2/2008 Okabe
 D566,626 S * 4/2008 Sakata D12/110
 D581,329 S * 11/2008 Ohigashi D12/180
 D581,844 S 12/2008 Ohigashi et al.
 7,458,915 B2 12/2008 Matsuda
 7,475,758 B2 1/2009 Dimsey et al.
 D592,559 S 5/2009 McGarry
 D602,412 S 10/2009 Becocci
 D608,259 S 1/2010 Becocci
 7,641,027 B2 1/2010 Mozzati et al.
 D609,616 S 2/2010 Kitchell
 D619,945 S 7/2010 Sadanowicz et al.
 D621,417 S 8/2010 McGarry
 7,789,206 B2 9/2010 Carminati et al.
 7,793,764 B2 9/2010 Fujimoto et al.
 7,828,124 B2 11/2010 Sano et al.
 7,900,753 B2 3/2011 Chang
 7,926,625 B2 4/2011 Kawai et al.
 D639,217 S 6/2011 Moore
 8,056,683 B2 11/2011 Usui
 D651,145 S 12/2011 Lockrem
 D661,632 S 6/2012 Shinagawa
 D661,633 S 6/2012 Shinagawa
 D669,004 S 10/2012 Meckel
 8,365,881 B2 2/2013 Iwai et al.
 D686,548 S 7/2013 Meckel
 8,505,972 B2 8/2013 Nishiyama
 D689,406 S * 9/2013 Yasuhara D12/110

D693,280 S 11/2013 Shinagawa
 D693,282 S 11/2013 Ichikawa et al.
 D695,656 S 12/2013 Qin
 D700,566 S 3/2014 Ichikawa et al.
 D721,309 S 1/2015 Moore
 8,978,842 B2 3/2015 Iwai et al.
 D732,084 S * 6/2015 Kuperman D15/5
 D738,260 S * 9/2015 Akita D12/110
 D738,789 S * 9/2015 Inose D12/110
 D740,719 S 10/2015 Schanz et al.
 D741,925 S * 10/2015 Flegel D15/139
 9,206,869 B2 12/2015 Wen
 9,234,553 B2 1/2016 Iwai et al.
 D749,025 S 2/2016 Dunlap, III
 D749,476 S 2/2016 Dunlap, III
 D749,477 S 2/2016 Dunlap, III
 9,574,632 B2 * 2/2017 Kuo F16D 65/847
 D784,873 S * 4/2017 Kobayashi D12/180
 9,638,277 B2 * 5/2017 Iwai F16D 65/847
 D792,287 S * 7/2017 Kobayashi D12/110
 9,777,784 B2 * 10/2017 Iwai F16D 65/123
 D809,433 S * 2/2018 Kobayashi D12/110
 D815,566 S * 4/2018 Oyanagi D12/110
 2004/0011608 A1 1/2004 Tironi et al.
 2004/0065514 A1 * 4/2004 Chen B60T 11/046
 188/24.11
 2005/0056495 A1 * 3/2005 Greppi F16D 65/12
 188/26
 2011/0155086 A1 6/2011 Matsuda et al.
 2011/0240420 A1 * 10/2011 Souwa F16D 65/12
 188/218 XL
 2011/0241369 A1 10/2011 Kamon et al.
 2013/0220721 A1 8/2013 Matsuda
 2013/0300236 A1 11/2013 Matsuda
 2014/0090919 A1 4/2014 Idaka et al.
 2014/0174243 A1 6/2014 Watarai et al.
 2014/0175836 A1 * 6/2014 Nakagawa B62J 15/00
 296/193.09
 2014/0183836 A1 * 7/2014 Ishii B62K 25/08
 280/267
 2015/0307148 A1 10/2015 Kato
 2016/0258395 A1 * 9/2016 Ishii B62M 7/02
 2016/0325400 A1 11/2016 Murakami et al.

OTHER PUBLICATIONS

Galfer Brakes Front Wave Brake Rotor for KTM 990 Adventure
 2006-2012, image post date 2006, site visited Jun. 22, 2018,
 (online), <<https://www.ebay.ie/itm/Galfer-Brakes-Front-Wave-Brake-Rotor-for-KTM-990-Adventure-2006-2012/322541981470?hash=item4b19000f1e:g:DD4AAOSwi7RZM3HZ>>.*
 Jaguar z power brake discs, image post date May 13, 2014, site
 visited Dec. 17, 2016, (online), <<https://www.tineye.com/search/3fd1c0f838d57deb3b5914268f914931e24b3d14/>>.
 Wave Wavy 220MM Motorcycle Rear Brake Disks Disc Brake
 Rotors for KTM EXC SX SXF 125 150 200 250 300 350 400 450
 520, image post date 2003, site visited Dec. 17, 2016, (online),
 <<https://www.aliexpress.com/store/product/Motorcycle-Rear-Brake-Disc-For-KTM-125-150-200-250-300-350-400-450-520-KTM/21260332696676553.html>>.

* cited by examiner

Fig. 1

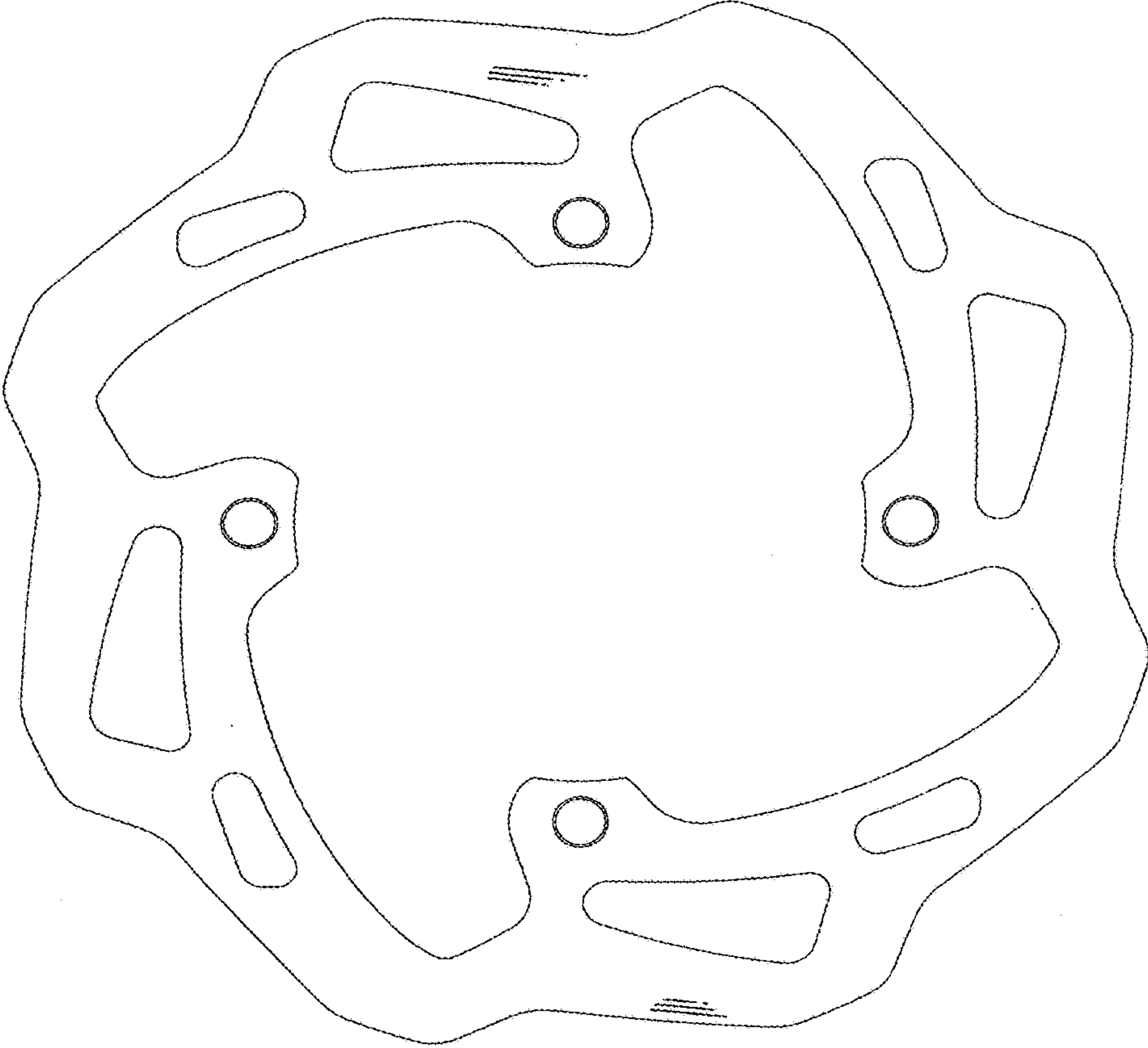


Fig. 2

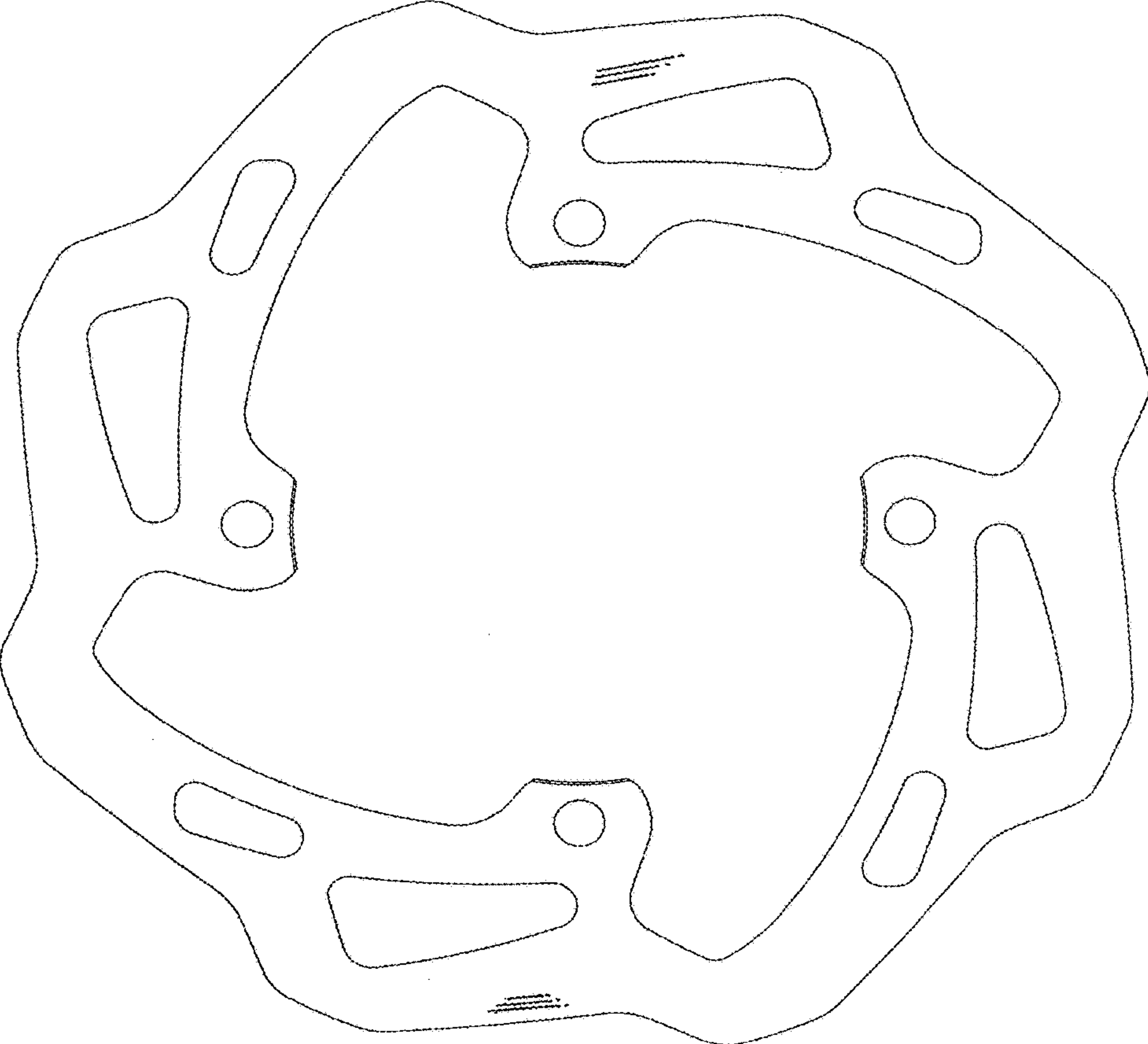


Fig. 3



Fig. 4



Fig. 5

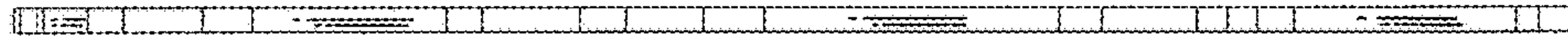


Fig. 6

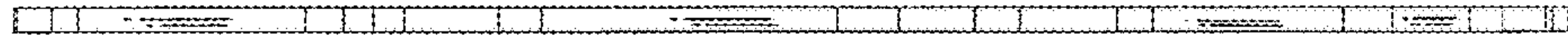


Fig. 7

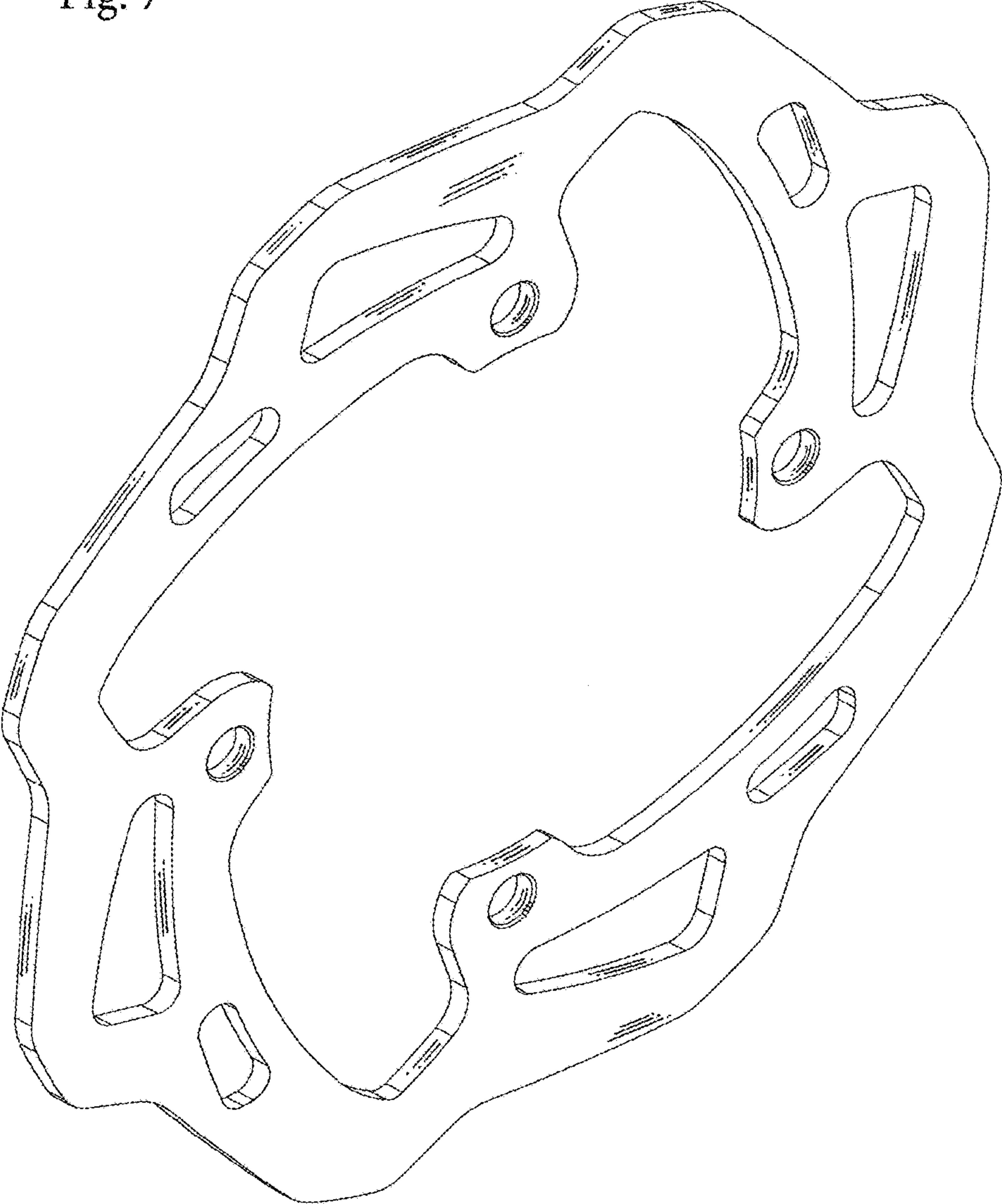


Fig. 8

