



US00D833349S

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

(10) **Patent No.:** **US D833,349 S**

(45) **Date of Patent:** **\*\* Nov. 13, 2018**

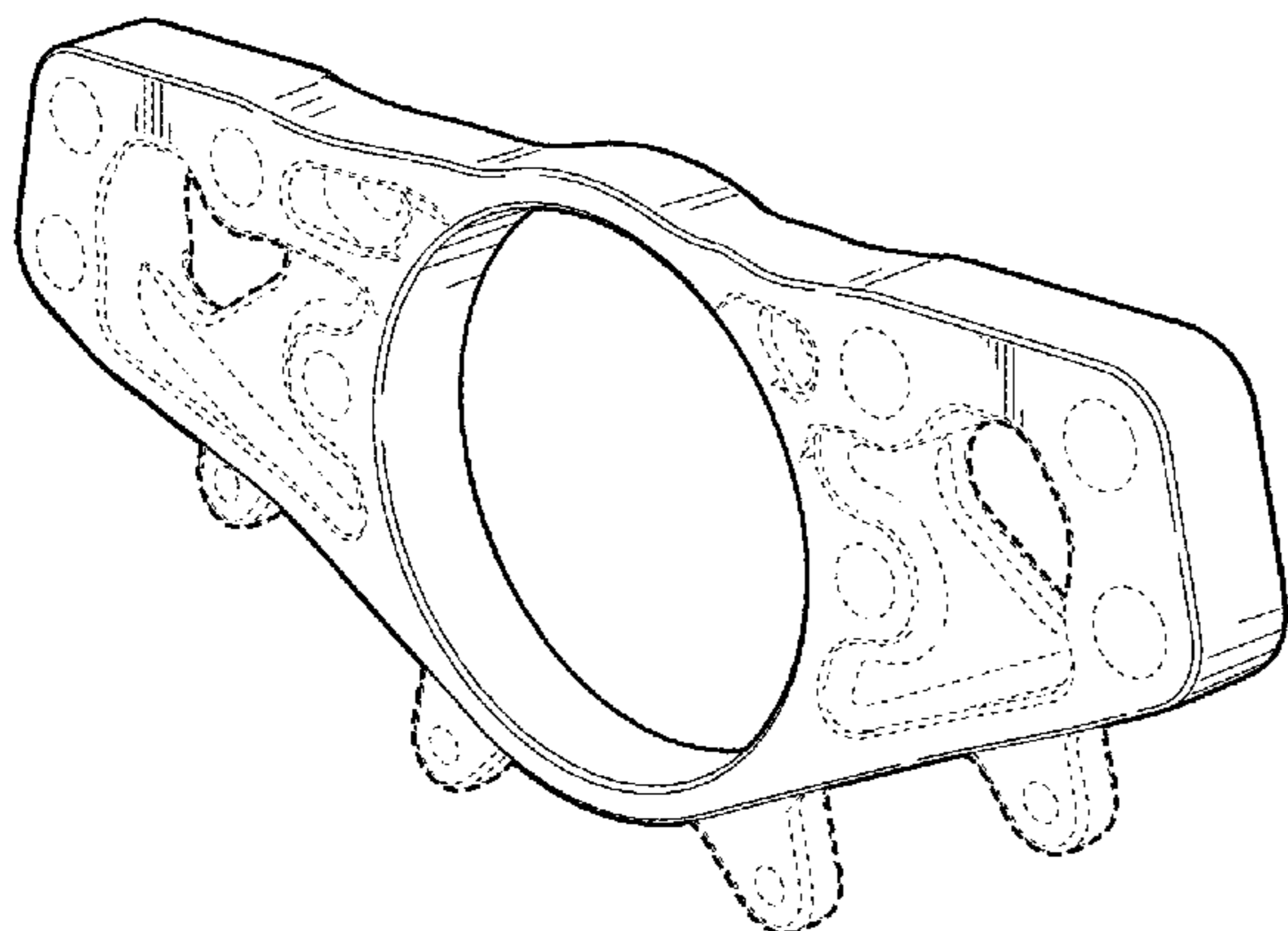
(54) **BRAKE TORQUE PLATE**

- (71) Applicant: **SAF-HOLLAND, Inc.**, Holland, MI (US)
- (72) Inventors: **John Bowyer**, Whitehall, MI (US);  
**Edward Hammer**, Muskegon, MI (US); **Sean O'Brien**, Grand Haven, MI (US)
- (73) Assignee: **SAF-HOLLAND, Inc.**, Muskegon, MI (US)
- (\*\*) Term: **15 Years**
- (21) Appl. No.: **29/611,767**
- (22) Filed: **Jul. 25, 2017**

**Related U.S. Application Data**

- (62) Division of application No. 29/540,194, filed on Sep. 22, 2015, now Pat. No. Des. 801,895.
- (51) **LOC (11) Cl.** ..... **12-16**
- (52) **U.S. Cl.**  
USPC ..... **D12/180**
- (58) **Field of Classification Search**  
USPC ..... D12/14, 40, 87, 88, 92, 106, 107, 110, D12/114, 115, 117, 118, 122, 126, 160, D12/161, 162, 174, 177, 179, 180, 181, D12/189, 196, 207, 217, 223, 400, 401, D12/404, 408, 415, 420, 423  
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

(Continued)



(56) **References Cited**

U.S. PATENT DOCUMENTS

- 4,068,744 A \* 1/1978 Markert ..... F16D 55/2262  
188/205 R
- 4,727,832 A \* 3/1988 Miyamura ..... F01L 1/181  
123/90.39

(Continued)

OTHER PUBLICATIONS

81.50202.0108 SHACMAN, image post date 1986, site visited Jun. 23, 2017, (online), <<http://euroauto.ru/firms/man/81502020108/>>.\*

(Continued)

*Primary Examiner* — Kevin K Rudzinski  
*Assistant Examiner* — Sean D Lough  
(74) *Attorney, Agent, or Firm* — Price Heneveld LLP

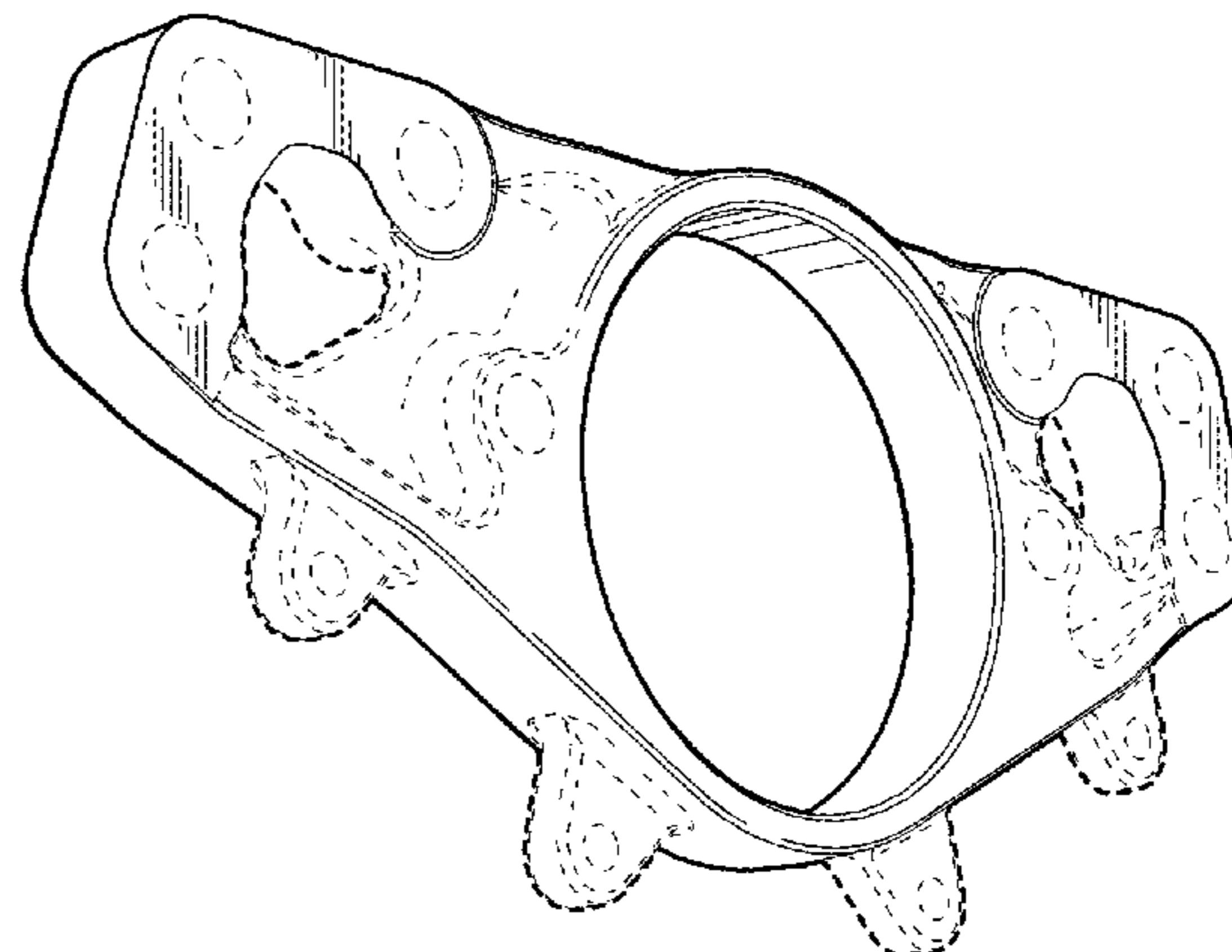
(57) **CLAIM**

The ornamental design for the brake torque plate, as shown and described.

**DESCRIPTION**

FIG. 1 is a first perspective view of the brake torque plate showing the present invention; FIG. 2 is a second perspective view of the brake torque plate; FIG. 3 is a front elevation view of the brake torque plate; FIG. 4 is a first side elevation view of the brake torque plate; FIG. 5 is a second side elevation view of the brake torque plate; FIG. 6 is rear elevation view of the brake torque plate; FIG. 7 is a top plan view of the brake torque plate; and, FIG. 8 is a bottom plan view of the brake torque plate. The broken lines shown in the drawings illustrate portions of the brake torque plate that form no part of the claimed design.

**1 Claim, 4 Drawing Sheets**



(58) **Field of Classification Search**

CPC ..... 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

D367,418 S \* 2/1996 Lathrop ..... D12/223  
 5,727,659 A \* 3/1998 Brown ..... F16D 55/2262  
 188/72.7  
 D436,565 S \* 1/2001 Tsay ..... D12/192  
 D454,828 S \* 3/2002 Alder ..... D12/223  
 6,722,476 B1 \* 4/2004 Cornolti ..... F16D 55/228  
 188/264 CC  
 D562,112 S \* 2/2008 Harrell ..... D8/354  
 D587,284 S \* 2/2009 Stopanio ..... D15/5  
 D604,150 S \* 11/2009 Lee ..... D12/114  
 D613,652 S \* 4/2010 Ebert ..... D12/180  
 D628,130 S \* 11/2010 Miyanishi ..... D12/192  
 D629,337 S \* 12/2010 Stahel, Jr. .... D12/126  
 D649,792 S \* 12/2011 Nosworthy ..... D6/315  
 D658,039 S \* 4/2012 Ghatikar ..... D8/354  
 D658,550 S \* 5/2012 Madden ..... D12/114  
 D670,004 S \* 10/2012 Nosworthy ..... D25/68  
 D690,561 S \* 10/2013 Sanders ..... D24/198  
 D747,245 S \* 1/2016 Nosworthy ..... D12/180  
 D771,540 S \* 11/2016 Hammer ..... D12/180  
 D772,774 S \* 11/2016 Yuan ..... D12/223

9,551,389 B2 \* 1/2017 Hirotoni ..... B60T 7/102  
 D801,895 S \* 11/2017 Bowyer ..... D12/180  
 D808,872 S \* 1/2018 Cecur ..... D12/180  
 9,879,738 B2 \* 1/2018 White ..... F16D 65/0062  
 2006/0237267 A1 \* 10/2006 Brown, II ..... F16D 55/226  
 188/73.31  
 2008/0135352 A1 \* 6/2008 Bell ..... F16D 55/22  
 188/73.39  
 2009/0120740 A1 \* 5/2009 Drewes ..... F16D 55/22  
 188/73.39  
 2011/0042172 A1 \* 2/2011 Drewes ..... F16D 55/00  
 188/234  
 2013/0106076 A1 \* 5/2013 Zaagman ..... B60D 1/015  
 280/438.1  
 2013/0139580 A1 \* 6/2013 Helf ..... F16D 65/568  
 73/121  
 2014/0015214 A1 \* 1/2014 Galazin ..... B60G 9/003  
 280/124.128  
 2015/0145228 A1 \* 5/2015 Hock ..... B60G 9/003  
 280/124.116  
 2017/0066426 A1 \* 3/2017 Bowyer ..... A61K 9/10

OTHER PUBLICATIONS

Pria rem jangkar plate 81502020108, image post date 1999, site visited Jun. 23, 2017, (online), <<https://indonesian.alibaba.com/product-detail/man-brake-anchor-plate-81502020108-1320146517.html>>.\*

Torque Plate, image post date Apr. 3, 2015, site visited Jun. 23, 2017, (online), <<https://web.archive.org/web/20150403082619/http://www.hendrickson-intl.com/maxx22t/index.html>>.\*

\* cited by examiner

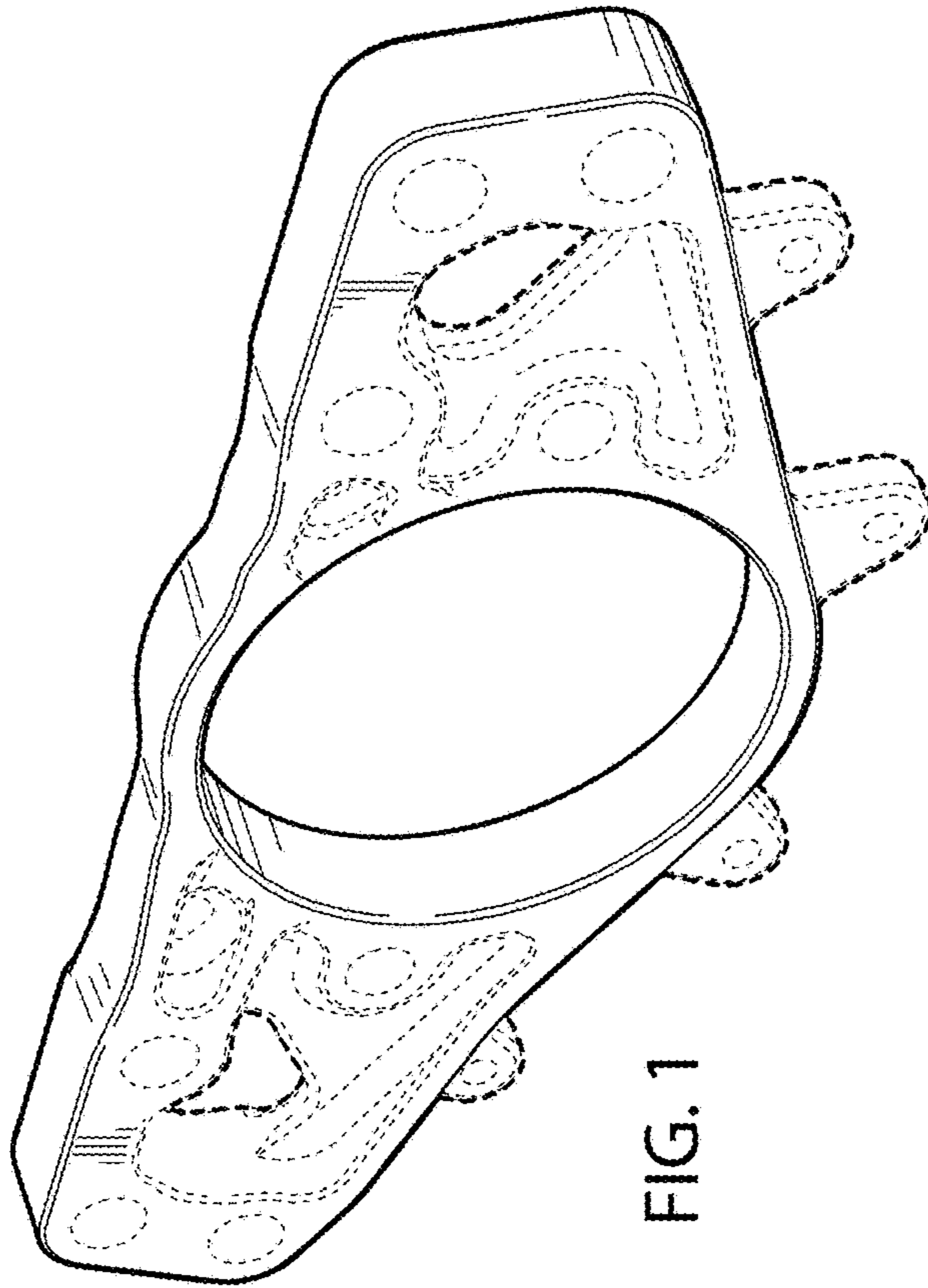


FIG. 1

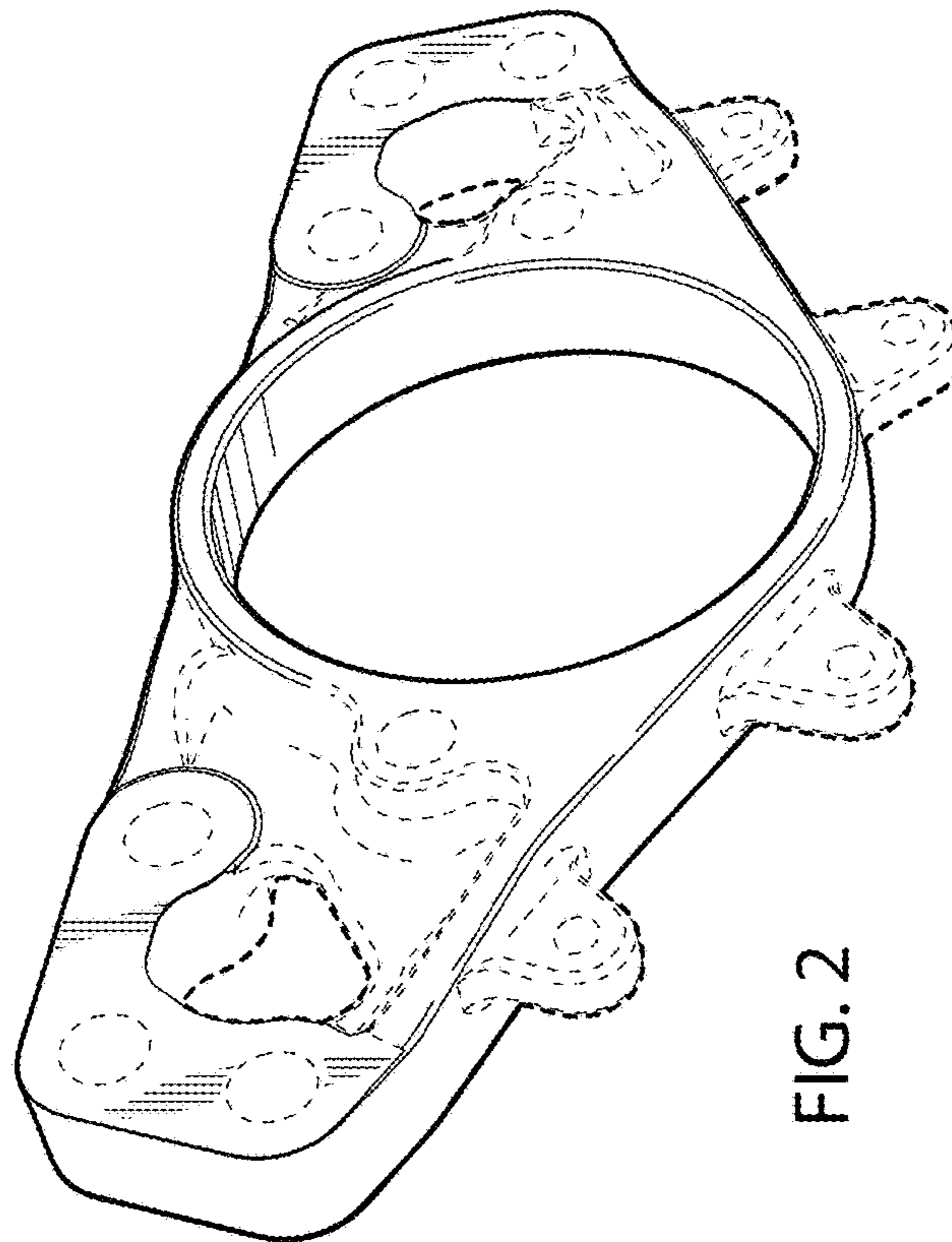


FIG. 2

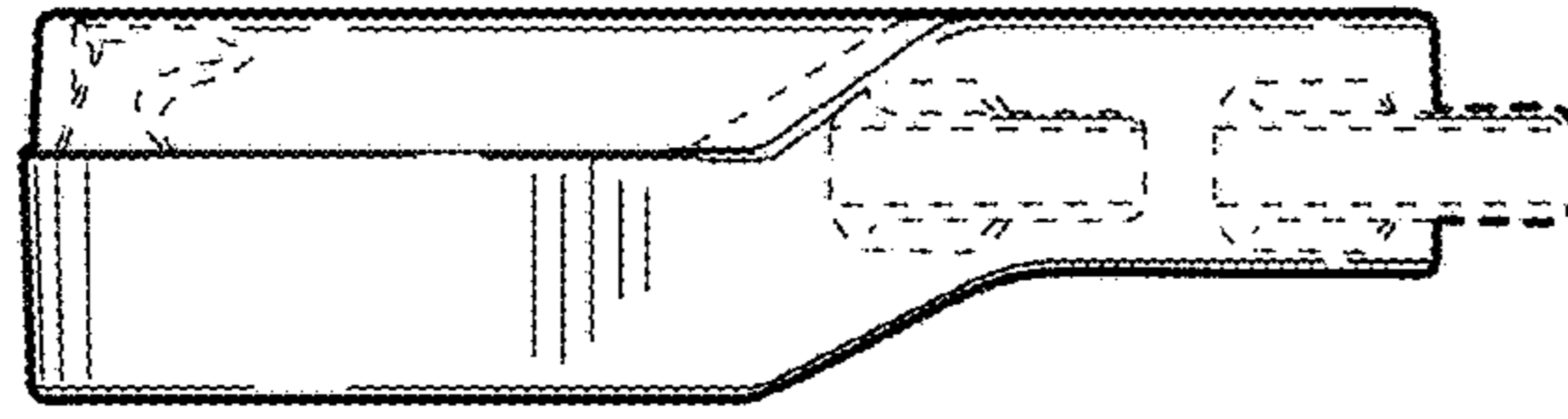


FIG. 4

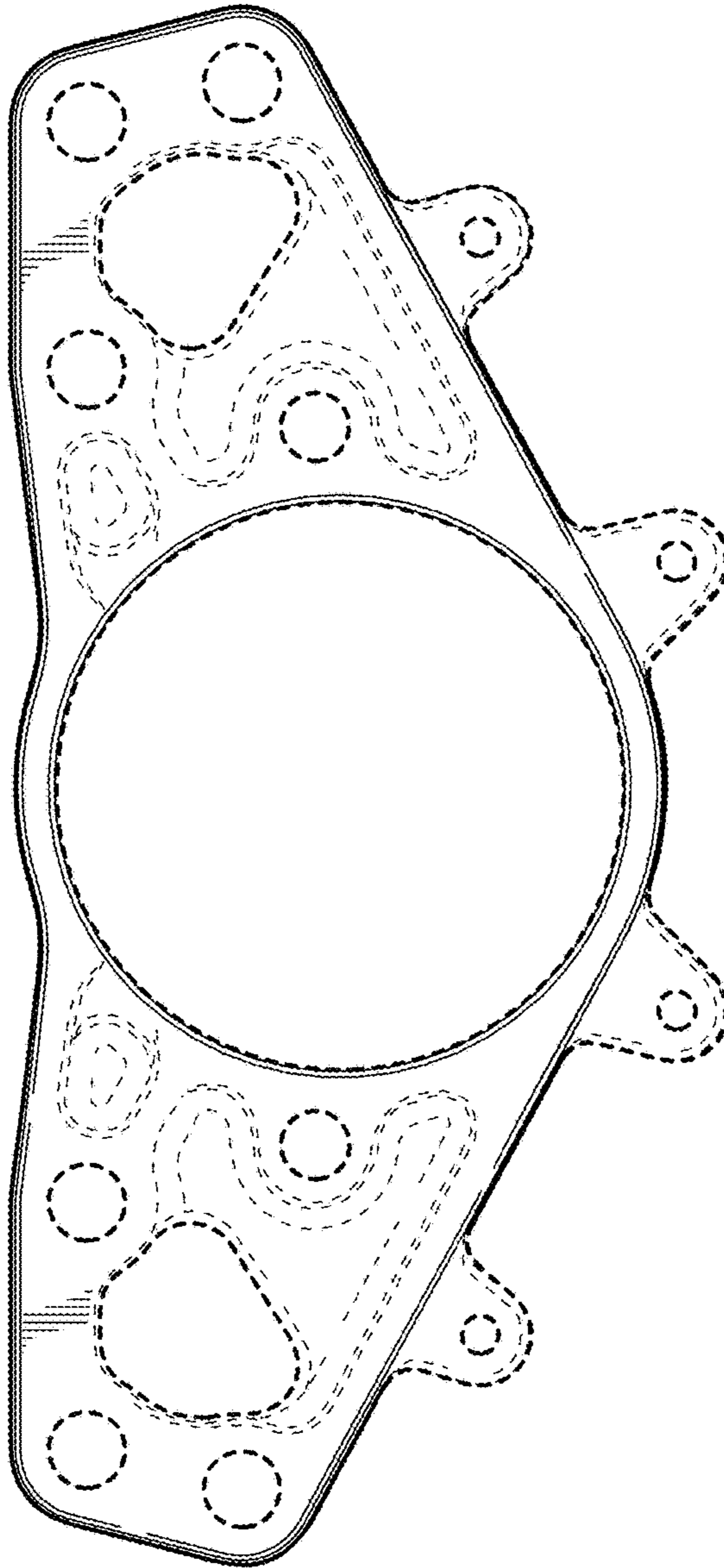


FIG. 3

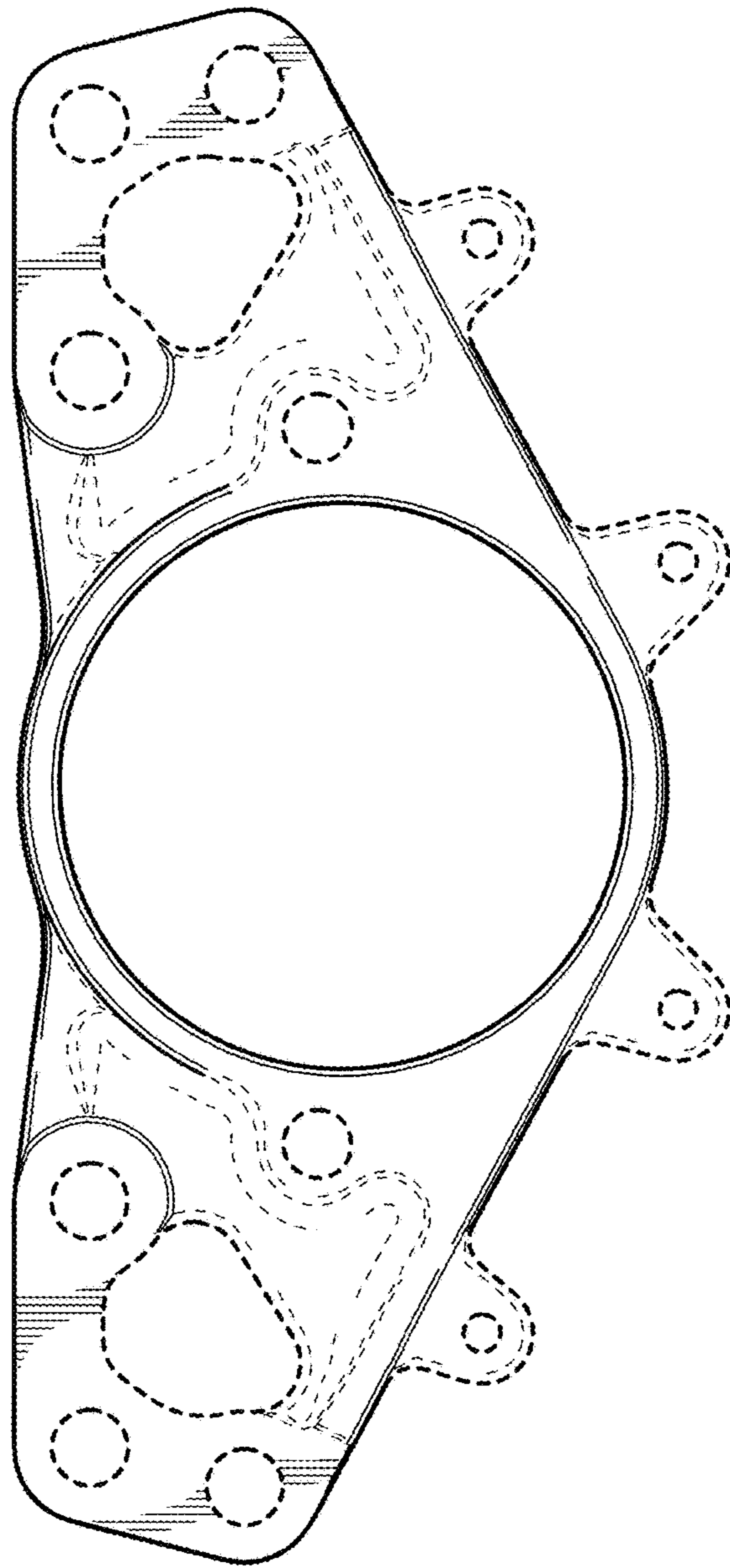


FIG. 6

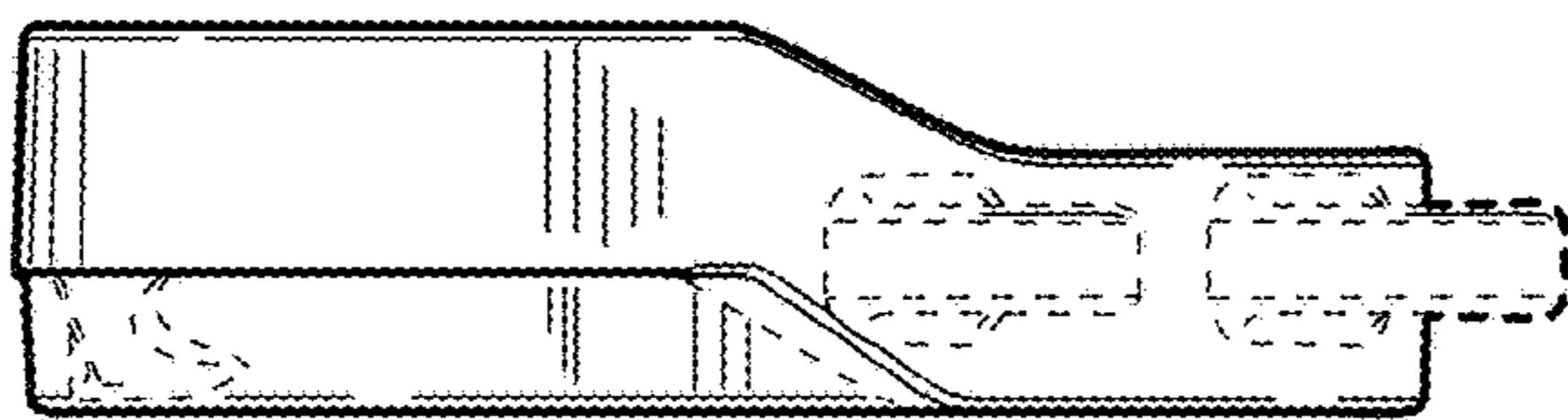


FIG. 5

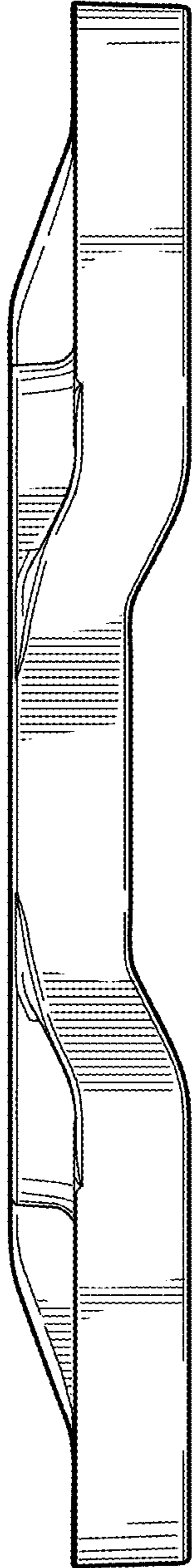


FIG. 7

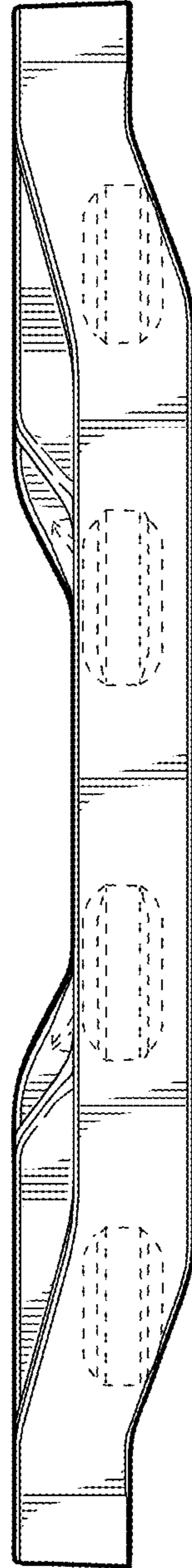


FIG. 8