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(12) **United States Design Patent** (10) **Patent No.:** **US D905,626 S**
Delgado-Nanez (45) **Date of Patent:** **** Dec. 22, 2020**

(54) **PANEL RAIL SADDLE FOR SOLAR MODULE**

FOREIGN PATENT DOCUMENTS

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KR 1020080108640 A 12/2008
KR 100896332 B 5/2009

(Continued)

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OTHER PUBLICATIONS

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Advisory Action issued in U.S. Appl. No. 15/948,960 dated Sep. 12, 2019, 5 pages.

(Continued)

(**) Term: **15 Years**

Primary Examiner — Derrick E Holland

(21) Appl. No.: **29/699,492**

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(51) **LOC (12) Cl.** **13-02**

(52) **U.S. Cl.**
USPC **D13/102**

(58) **Field of Classification Search**
USPC D13/102, 155, 129, 131, 132, 133, 153,
D13/154, 156, 157, 184, 199; D8/354,
D8/356, 366, 380, 396
CPC H02G 3/08; H02G 3/0608; H02G 3/0418;
H02G 3/0431; H02G 5/08; H01R 25/14;
H01R 25/142; H01R 13/453; H02S
40/36; H02S 20/23; H02S 20/30; H02S
99/00; H05K 5/02; F24J 2/52
See application file for complete search history.

(57) **CLAIM**

The ornamental design for a panel rail saddle for solar module, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of a panel rail saddle for solar module showing the new design in environmental use; FIG. 2 is a top perspective view of the panel rail saddle for solar module; FIG. 3 is a bottom perspective view of the panel rail saddle for solar module of FIG. 2; FIG. 4 is a top plan view of the panel rail saddle for solar module of FIG. 2; FIG. 5 is a side elevational view of the panel rail saddle for solar module of FIG. 2; FIG. 6 is a bottom plan view of the panel rail saddle for solar module of FIG. 2; and, FIG. 7 is an enlarged rear view of the panel rail saddle for solar module of FIG. 2. The broken lines shown represent environmental subject matter and form no part of the claimed design.

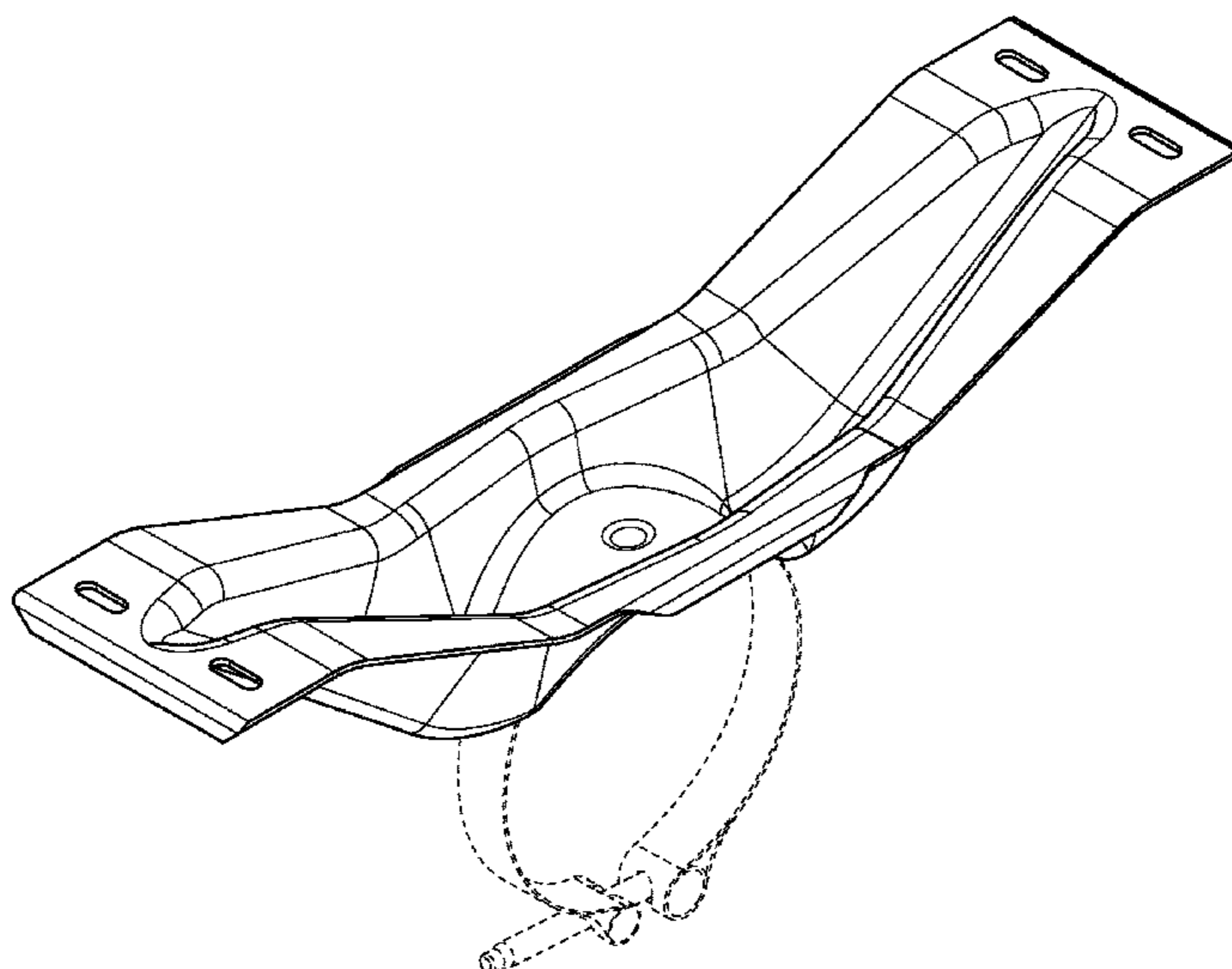
(56) **References Cited**

U.S. PATENT DOCUMENTS

1,683,266 A 9/1928 Shipman
4,023,368 A 5/1977 Kelly
D256,840 S * 9/1980 Katz D13/102
4,276,872 A 7/1981 Blake et al.
4,372,017 A 2/1983 Heckethorn
4,602,811 A 7/1986 Heckethorn et al.
5,092,939 A 3/1992 Nath et al.
5,274,888 A 1/1994 Payne
D361,561 S 8/1995 Baudot
6,269,596 B1 8/2001 Ohtsuka et al.

(Continued)

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

6,431,502 B1 8/2002 Goodman
 6,561,473 B1 5/2003 Ianello
 D547,262 S 7/2007 Ullman
 D564,958 S 3/2008 Almy et al.
 7,531,741 B1 5/2009 Melton et al.
 D606,938 S 12/2009 Mack
 7,647,924 B2 1/2010 Hayden
 D651,969 S 1/2012 Turk et al.
 D651,970 S 1/2012 Turk et al.
 8,459,249 B2 6/2013 Corio
 D689,434 S 9/2013 Tilscher
 8,671,930 B2 3/2014 Liao
 8,727,288 B2 5/2014 Ruiz et al.
 D708,123 S * 7/2014 Ilzhofer D13/102
 D708,126 S * 7/2014 Cai D13/102
 D713,784 S 9/2014 Wildes
 D718,228 S * 11/2014 Clarkson D13/102
 8,939,648 B2 1/2015 Schneider et al.
 D736,595 S * 8/2015 Moore D8/349
 9,303,684 B2 4/2016 Clavijo
 9,347,691 B2 5/2016 West et al.
 D758,834 S 6/2016 Tally
 9,413,287 B2 8/2016 Hertelius et al.
 9,466,749 B1 10/2016 Au
 9,473,065 B2 * 10/2016 Seery F16M 13/02
 D798,232 S * 9/2017 Haberlein D13/102
 D804,407 S * 12/2017 Au D13/102
 10,033,328 B2 * 7/2018 Wildes H02S 20/23
 10,069,455 B2 * 9/2018 Corio F24S 25/60
 D843,932 S * 3/2019 Sinai D13/102
 10,222,446 B2 3/2019 Au
 2002/0078945 A1 6/2002 Funger et al.
 2002/0179138 A1 12/2002 Lawheed
 2003/0034029 A1 2/2003 Shingleton
 2003/0070368 A1 4/2003 Shingleton
 2003/0226412 A1 12/2003 Rumminger et al.
 2005/0284467 A1 12/2005 Patterson
 2006/0086382 A1 4/2006 Plaisted
 2007/0144575 A1 6/2007 Mascolo et al.
 2007/0176059 A1 8/2007 Roscetti et al.
 2008/0040990 A1 2/2008 Vendig et al.
 2008/0168981 A1 7/2008 Cummings et al.
 2008/0230047 A1 9/2008 Shugar et al.
 2008/0308091 A1 12/2008 Corio
 2009/0025708 A1 1/2009 Shingleton

2009/0032014 A1 2/2009 Meydbray
 2009/0159778 A1 6/2009 Yeh et al.
 2010/0101632 A1 4/2010 Kats et al.
 2010/0147286 A1 6/2010 Xiang et al.
 2010/0212714 A1 8/2010 Rothschild et al.
 2011/0023940 A1 2/2011 Do et al.
 2011/0041834 A1 2/2011 Liao
 2011/0073104 A1 3/2011 Dopp et al.
 2011/0132353 A1 6/2011 Gumm et al.
 2011/0278411 A1 * 11/2011 Carbonare F24S 25/16
 248/237
 2012/0006386 A1 1/2012 Klinga et al.
 2012/0091077 A1 4/2012 Zuritis
 2012/0180845 A1 7/2012 Cole et al.
 2013/0026308 A1 1/2013 Walquist et al.
 2013/0269753 A1 10/2013 Corio
 2014/0130847 A1 * 5/2014 West F24S 25/70
 136/251
 2014/0216522 A1 8/2014 Au et al.
 2015/0000722 A1 1/2015 Au et al.
 2015/0092383 A1 4/2015 Corio et al.
 2015/0236636 A1 8/2015 Bade et al.

FOREIGN PATENT DOCUMENTS

WO 2012076949 A1 6/2012
 WO 2013101696 A2 7/2013

OTHER PUBLICATIONS

India Office Action for application No. 4839/DELNP/2015 dated May 25, 2018, 6 pages.
 International Search Report and Written Opinion for PCT/US2013/073948 dated Apr. 3, 2014.
 U.S. Office Action issued in U.S. Appl. No. 15/694,647 dated Jun. 25, 2019, 31 pages.
 Non Final Office Action issued in U.S. Appl. No. 15/640,322 dated Sep. 25, 2019, 36 pages.
 Non-Final Office Action issued in U.S. Appl. No. 15/890,934 dated Apr. 25, 2019.
 Notice of Allowance issued in U.S. Appl. No. 16/234,723 dated Jun. 5, 2019, 22 pages.
 Office Action from Chinese Patent Office for Application No. 201380072577.7 dated Aug. 23, 2017.
 Office Action from Japanese Patent Office for Application No. 2015-545918 dated Jun. 9, 2017.

* cited by examiner

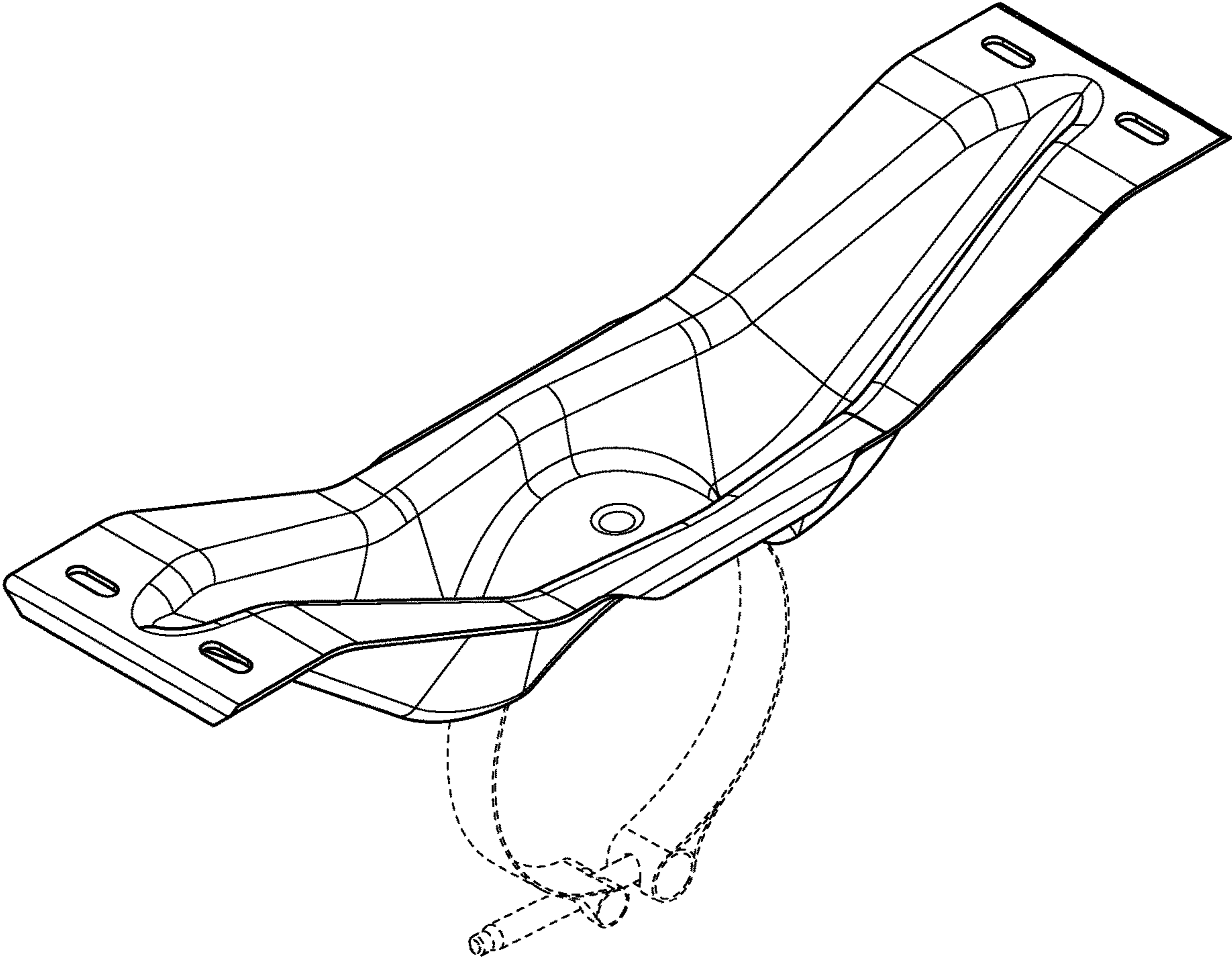


FIG. 1

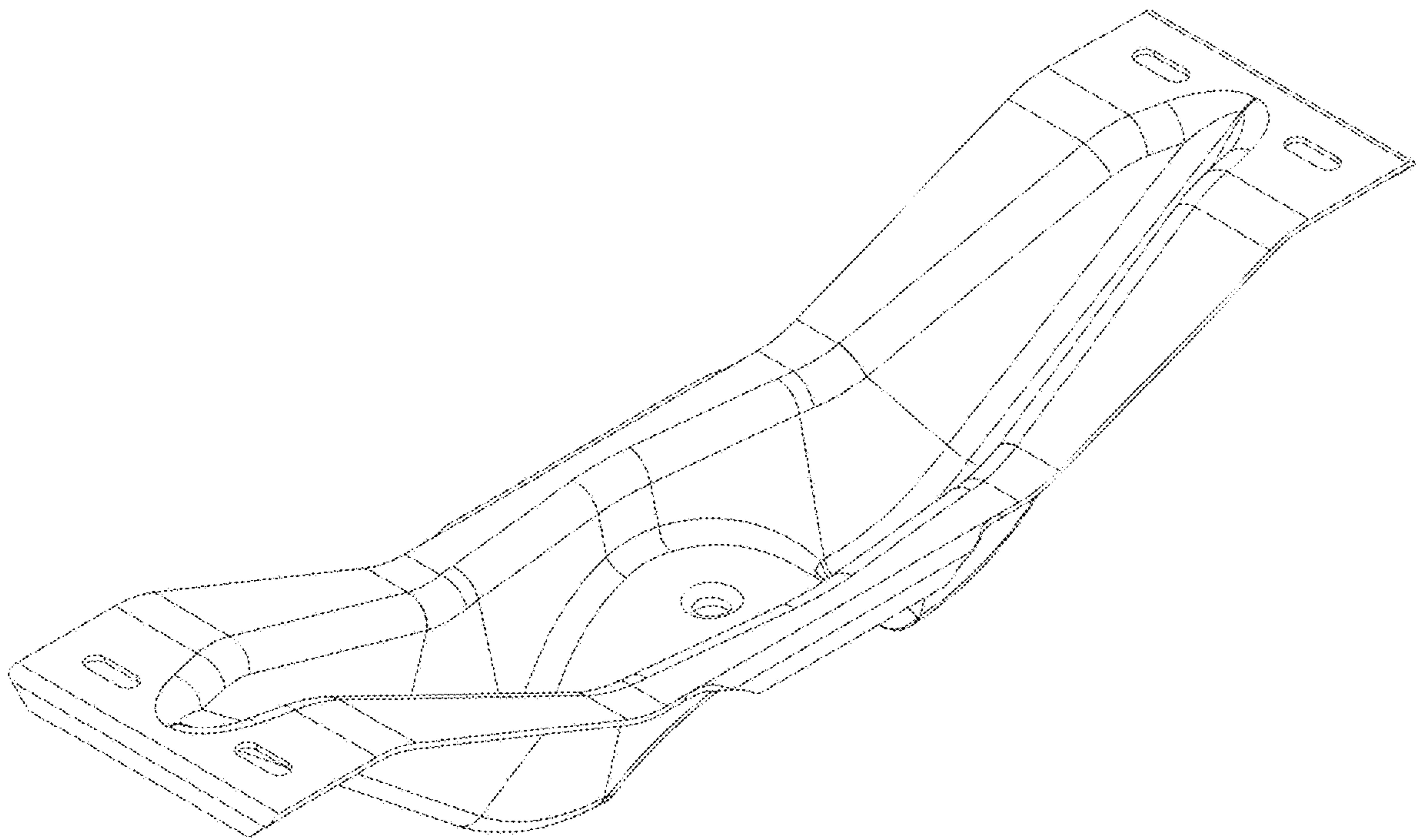


FIG. 2

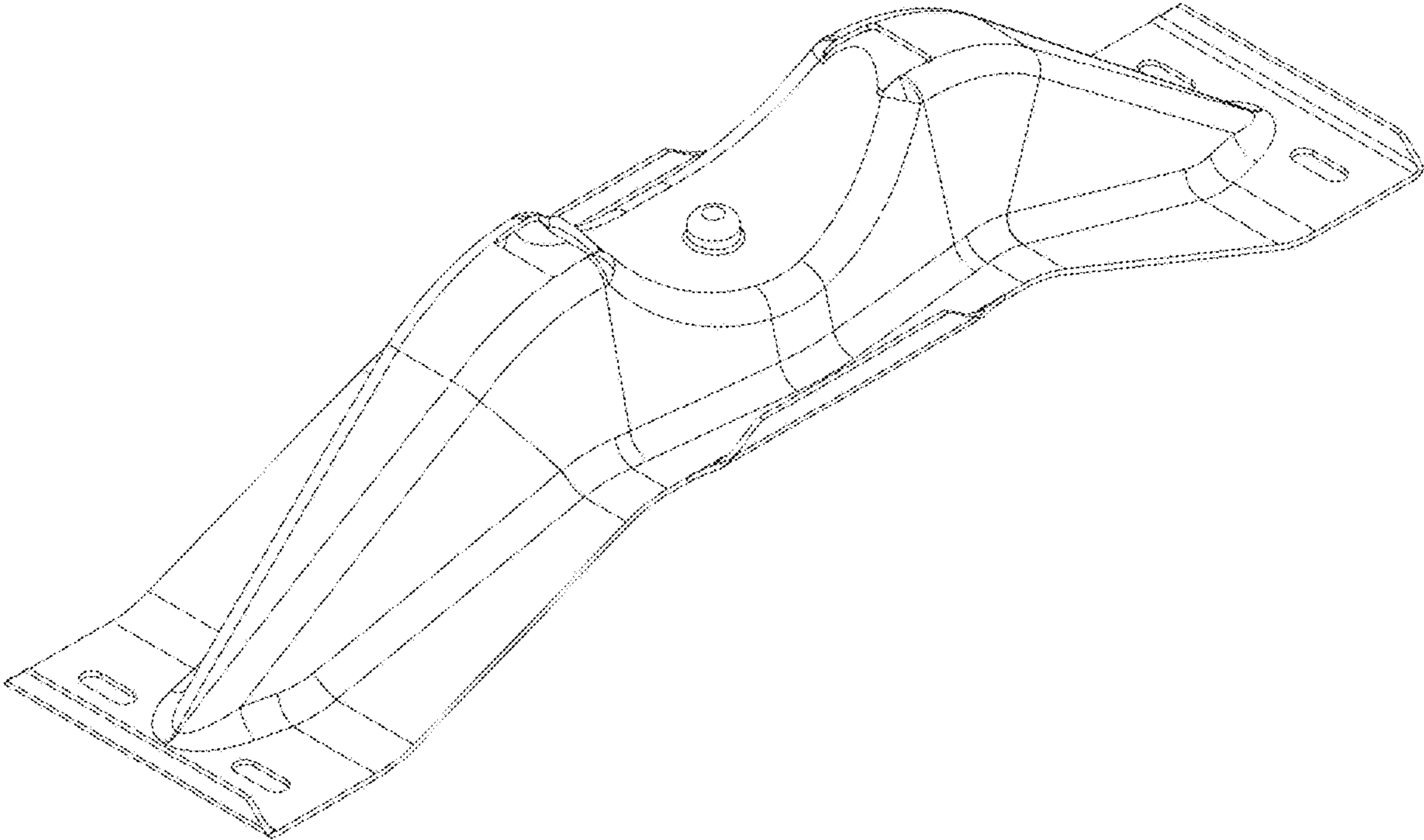


FIG. 3

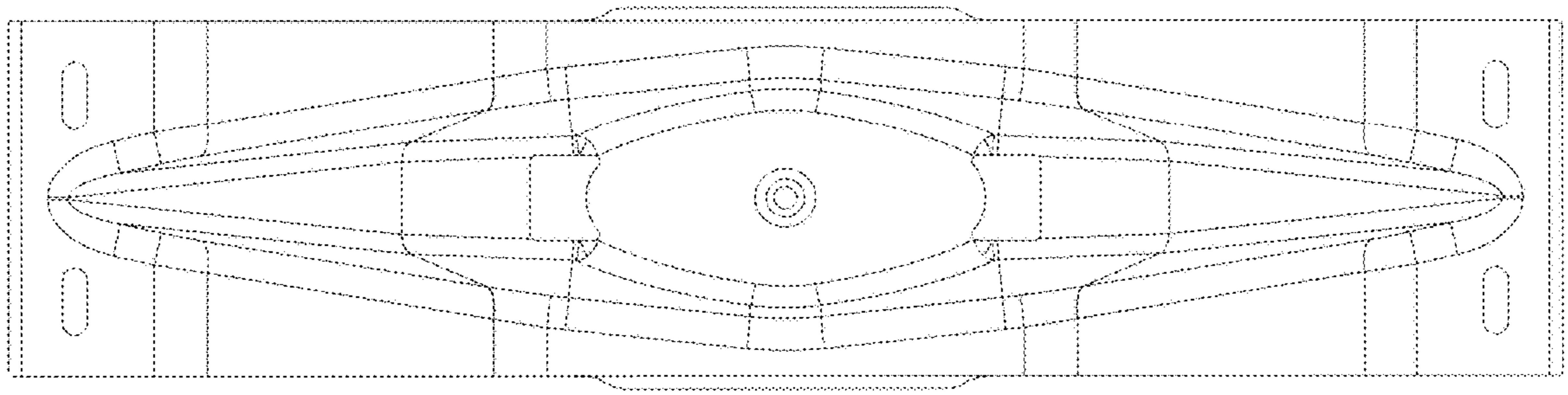


FIG. 4

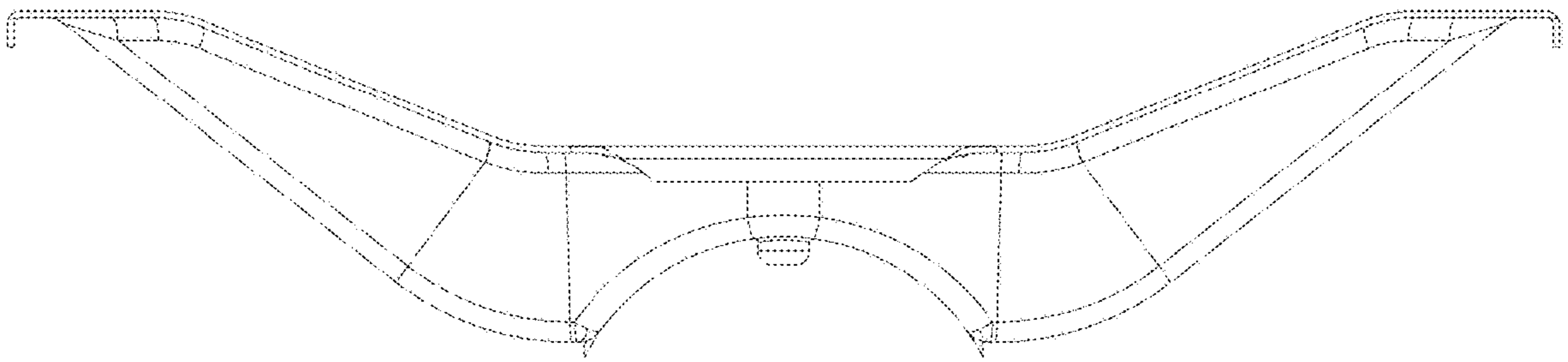


FIG. 5

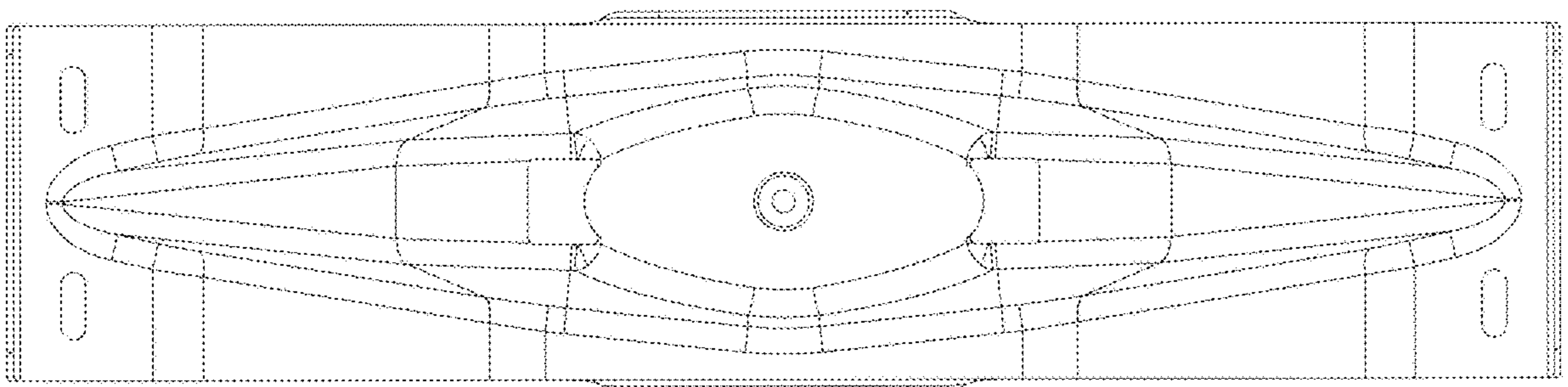


FIG. 6

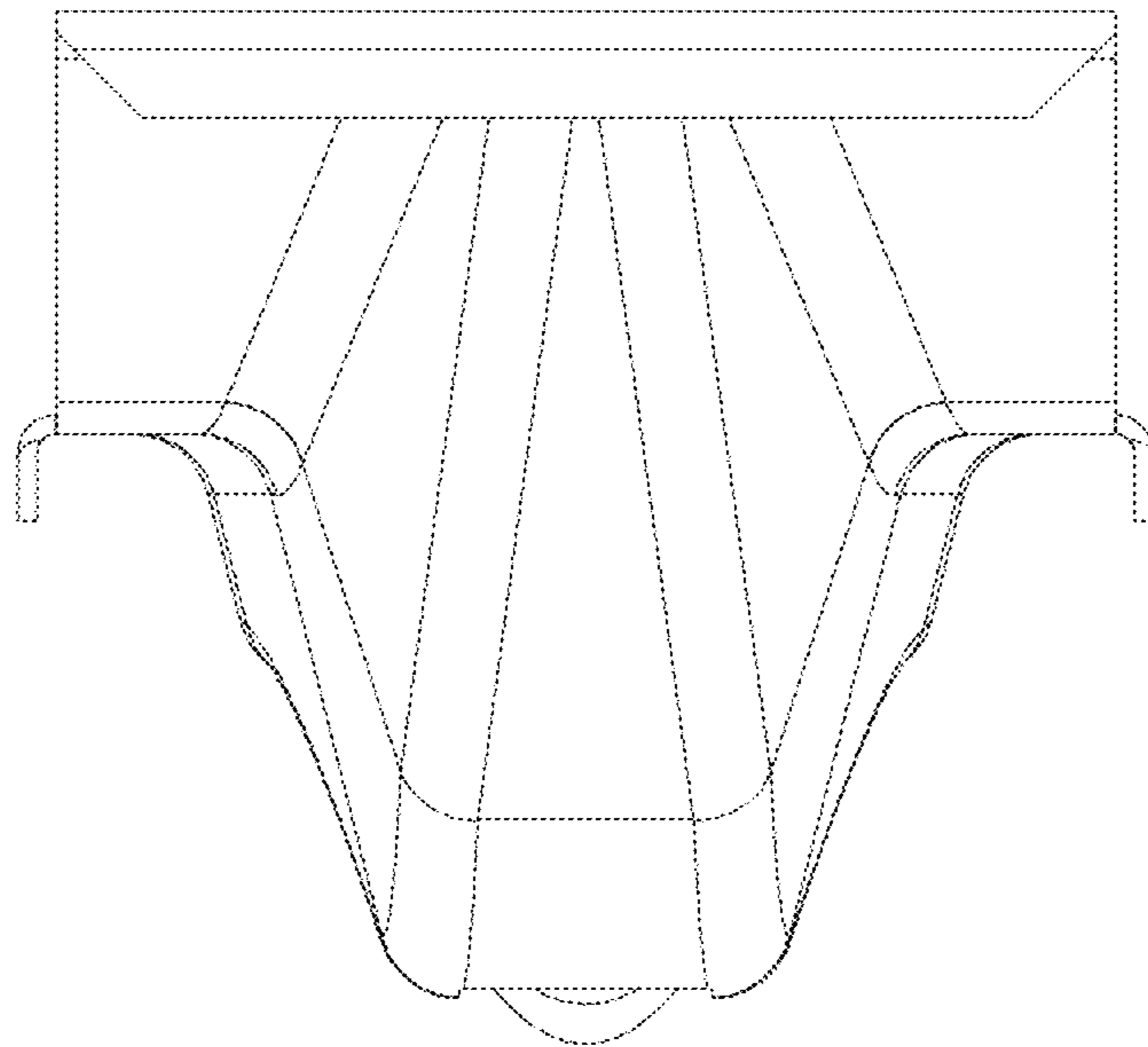


FIG. 7