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(12) **United States Design Patent** (10) **Patent No.:** **US D841,061 S**
Maguire (45) **Date of Patent:** **** Feb. 19, 2019**

(54) **LOW PROFILE LOADER**

FOREIGN PATENT DOCUMENTS

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DE 3541532 A1 5/1986
DE 3923241 A1 1/1991

(Continued)

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OTHER PUBLICATIONS

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

Brochure entitled "Plastic Molders and Extruders: published by Maguire Products, Inc., 1995".

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(Continued)

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Related U.S. Application Data

(60) Continuation-in-part of application No. 15/827,724, filed on Nov. 30, 2017, which is a division of application No. 15/012,001, filed on Feb. 1, 2016, now Pat. No. 10,053,303, which is a continuation-in-part of application No. 29/550,569, filed on Jan. 5, 2016, now Pat. No. Des. 815,158.

(57) **CLAIM**

The ornamental design for a low profile loader, as shown and described.

(51) **LOC (11) Cl.** **15-09**

DESCRIPTION

(52) **U.S. Cl.**
USPC **D15/122**

FIG. 1 is an isometric view showing the left side, the front, and the top of a low profile loader in accordance of the invention.

(58) **Field of Classification Search**

USPC D15/122, 135, 138, 199
CPC B29C 37/02; B29C 45/14; B29C 45/33;
B29C 45/44; B29C 45/0408; B29C 45/1459; B29C 45/14336; B29C 49/04;
B29C 49/541; B29C 49/4802; B29C 49/4815; B29C 2045/4063

FIG. 2 is an elevation of the front of the low profile loader illustrated in FIG. 1, with the discharge chute in a closed position.

FIG. 3 is an elevation of the rear of the low profile loader illustrated in FIG. 1, with the discharge chute in a closed position.

See application file for complete search history.

FIG. 4 is an elevation of the right side of the low profile loader illustrated in FIG. 1, with the discharge chute in the open position.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,161,190 A 6/1939 Paull
3,111,115 A 11/1963 Best
3,115,276 A 12/1963 Johannngmeier
3,209,898 A 10/1965 Beebe et al.

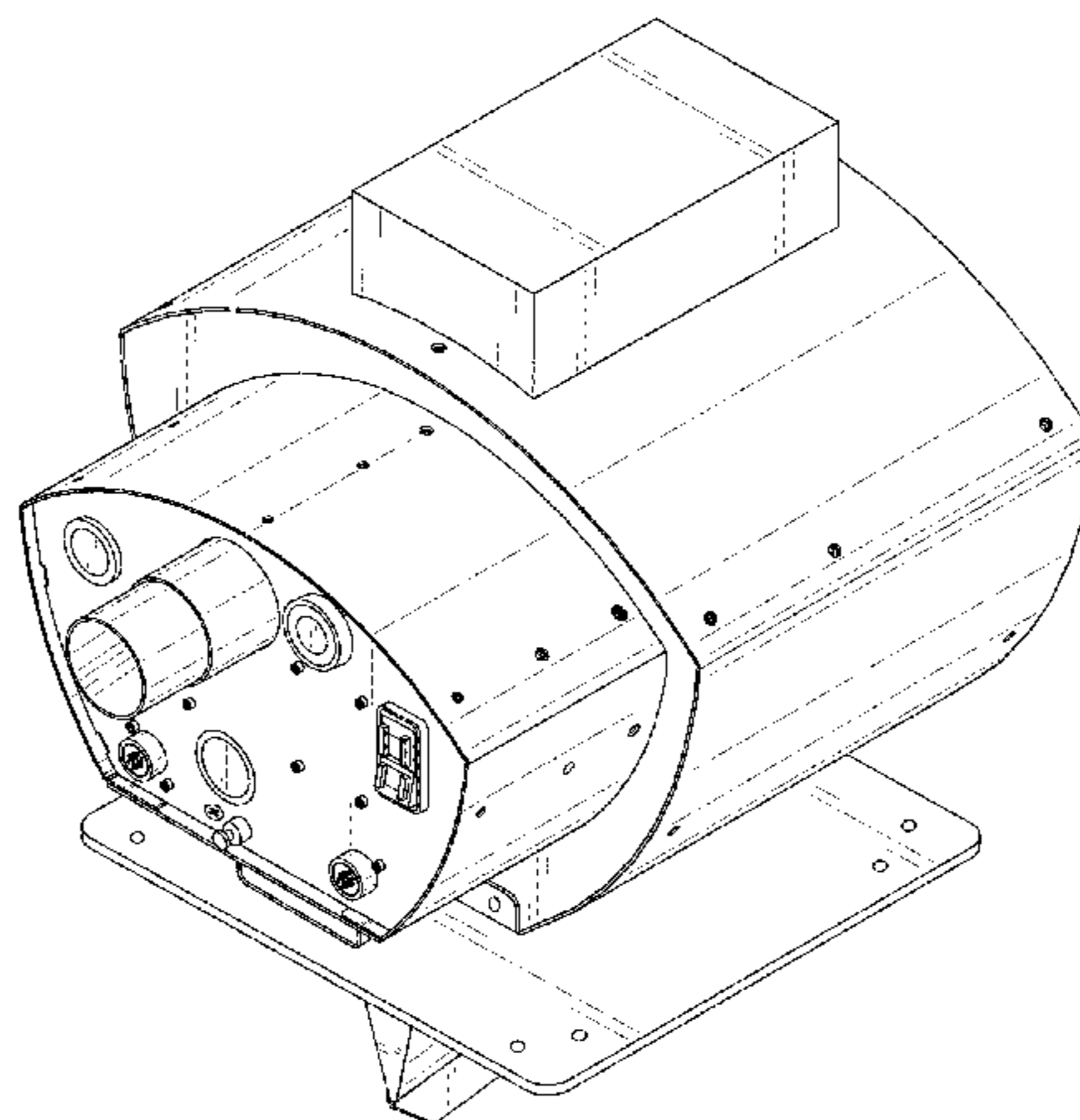
FIG. 5 is an elevation of the left side of the low profile loader illustrated in FIG. 1 with the discharge chute in the open position.

FIG. 6 is a top view of the low profile receiver illustrated in FIG. 1; and,

FIG. 7 is a bottom view of the low profile loader illustrated in FIG. 1, with the discharge chute in the open position.

(Continued)

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

3,348,848 A 10/1967 Lucking et al.
 3,470,994 A 10/1969 Schnell et al.
 3,486,309 A 12/1969 Wild
 3,570,542 A 3/1971 Otto et al.
 3,829,165 A 8/1974 Boon
 3,959,636 A 5/1976 Johnson et al.
 3,985,262 A 10/1976 Nauta
 4,019,641 A 4/1977 Merz
 4,026,442 A 5/1977 Orton
 4,108,334 A 8/1978 Moller
 4,148,100 A 4/1979 Moller
 4,194,859 A 3/1980 Boon
 4,219,136 A 8/1980 Williams et al.
 4,227,893 A 10/1980 Shaddock
 4,294,020 A 10/1981 Evans
 4,354,622 A 10/1982 Wood
 4,402,436 A 9/1983 Hellgren
 4,454,943 A 6/1984 Moller
 4,475,672 A 10/1984 Whitehead
 4,498,783 A 2/1985 Rudolph
 4,525,071 A 6/1985 Horowitz et al.
 4,564,374 A 1/1986 Hofmann
 4,581,704 A 4/1986 Mitsukawa
 4,705,083 A 11/1987 Rossetti
 4,756,348 A 7/1988 Moller
 4,793,711 A 12/1988 Ohlson
 4,830,508 A 5/1989 Higuchi et al.
 4,848,534 A 7/1989 Sandwall
 4,850,703 A 7/1989 Hanaoka et al.
 5,110,521 A 5/1992 Moller
 5,116,547 A 5/1992 Tsukahara et al.
 5,132,897 A 7/1992 Allenberg
 5,143,166 A 9/1992 Hough
 5,148,943 A 9/1992 Moller
 D331,248 S 11/1992 Yeh
 5,172,489 A 12/1992 Moller
 5,178,652 A 1/1993 Huttlin
 5,180,407 A 1/1993 DeMarco
 5,225,210 A 7/1993 Shimoda
 5,252,008 A 10/1993 May, III et al.
 5,261,743 A 11/1993 Moller
 5,285,930 A 2/1994 Nielsen
 5,340,949 A 8/1994 Fujimura et al.
 5,341,961 A 8/1994 Hausam
 5,423,455 A 1/1995 Ricciardi et al.
 5,651,401 A 7/1997 Cados
 5,843,513 A 1/1998 Wilke et al.
 5,767,453 A 6/1998 Wakou et al.
 5,767,455 A 6/1998 Mosher
 5,780,779 A 7/1998 Kitamura et al.
 5,791,830 A 8/1998 Fort et al.
 5,884,654 A 3/1999 Oike
 6,068,429 A 5/2000 Schultheis
 6,089,794 A 7/2000 Maguire
 6,152,656 A 11/2000 Curtis et al.
 6,364,579 B1 4/2002 Gerber
 6,379,086 B1 4/2002 Goth
 6,413,020 B1 7/2002 Davison
 6,638,344 B2 10/2003 Horton et al.
 6,936,085 B2 8/2005 DeMarco
 7,066,689 B2 6/2006 Maguire
 7,407,346 B2 8/2008 McConnell
 7,459,003 B2 12/2008 Crockett et al.
 7,550,023 B2 6/2009 Schuster et al.
 8,070,844 B2 12/2011 Maguire
 D651,623 S 1/2012 Stillwell
 D696,318 S 12/2013 Ludwick
 8,753,432 B2 6/2014 Maguire
 D726,793 S 4/2015 von Wyl
 D736,281 S 8/2015 Phillips
 D781,358 S 3/2017 Pichler
 D815,158 S * 4/2018 Maguire D15/122
 2005/0039816 A1 2/2005 Maguire
 2005/0120881 A1 6/2005 Sporre et al.
 2006/0086070 A1 4/2006 Althouse et al.

2006/0093444 A1 5/2006 McConnell
 2006/0147278 A1 7/2006 Boring et al.
 2007/0039290 A1 2/2007 Lee
 2011/0229276 A1 9/2011 Eder
 2012/0160866 A1 6/2012 Maguire
 2012/0301230 A1 11/2012 Marchesini
 2014/0201944 A1 7/2014 Maguire
 2014/0205386 A1 7/2014 Maguire
 2015/0110565 A1 4/2015 Harris
 2016/0122137 A1 5/2016 Schilling
 2016/0214793 A1 7/2016 Maguire
 2016/0280473 A1 9/2016 Veselov

FOREIGN PATENT DOCUMENTS

DE 4323295 C1 2/1995
 EP 0507689 A2 10/1982
 EP 0318170 A2 5/1989
 EP 0587085 A2 3/1994
 EP 0743149 A1 11/1996
 FR 2109840 A5 5/1972
 FR 2235775 A1 7/1974
 FR 2517087 A1 5/1983
 GB 2081687 A 2/1982
 JP 01-235604 9/1989
 JP 04-201522 7/1992
 JP 06-114834 4/1994
 JP 11-320610 A 11/1999
 KR 10-2014-0085858 A 7/2014
 KR 10-1576702 B1 12/2015

OTHER PUBLICATIONS

Five page brochure entitled "Blending power: GXB Blender The Better Alternative" of Mould-Tek, circa 1998.
 Two page brochure entitled "Mould-Tek Bulk Handling Systems" published by Mould-Tek Industries, Inc. in Canada, circa 1993.
 Advertisement entitled "Machinery and Systems for Extrusion is Our Only Business" by Process Control Corporation, circa 1993.
 Advertisement entitled "Weigh Blender Delivers Unmatched Accuracy" by Universal Dynamics, Inc., circa 1993.
 Advertisement entitled "A Full Line-up of Blender Solutions . . . Priced Right" by HydReclaim, circa 1993.
 Advertisement entitled "New From HydReclaim—Now Processors Can Economically Achieve Continuous Gravimetric Blending" by HydReclaim, circa 1993.
 Article entitled "Control Loading Systems" from *Plastics Technology*, Oct. 1995, p. 41.
 Advertisement "Introducing our 400 VME-II Gravimetric Blender" by HydReclaim Corporation, circa 1993.
 Four page brochure entitled "Gravimix Better Quality through Research", circa 1993.
 Four page brochure entitled "Conomix Plus Volumetric Blender" dated Aug. 1993.
 Four page brochure entitled "Conair Franklin Autocolor Y Mezclador" dated Mar. 1995.
 Two-sided flyer entitled "GB 140 Series Compact Auto Weigh Blender" published by Conair Franklin in the United States, Jun. 1994.
 Six page brochure entitled "Piovan Gravimetric Blenders MDW" published by Piovan Sri, Oct. 1993, Venezia, Italy.
 Four page brochure entitled "When you Weigh it All Up . . ." published by Ferlin Trading, Holland, circa 1993.
 Thirty-two page color catalog entitled "Maguire Color Blending Equipment" published by Maguire Products, Inc., 1993.
 Sheet of 2 photographs of Mould-Tek gravimetric blender, circa 1993.
 Sheet of 2 photographs of Motan gravimetric blender and feeding system with Maguire Products, Inc. controls, circa 1993.
 Sheet of 3 photographs of UNA-DYN gravimetric blender, circa 1993.
 Sheet of 2 photographs of Maguire Products, Inc. gravimetric blender with Conair hoppers and feeding system, circa 1993.

(56)

References Cited

OTHER PUBLICATIONS

Sheet of 1 photograph of Hydracolor gravimetric blender, circa 1993.

Two-sided flyer entitled "Gravimix, The New Gravimetric Blending Generation" published by Ferlin, De demsvaard, Holland, circa 1993.

Two-sided color brochure entitled "Convey, Blend, Dry" published by Novatec, Inc., undated.

Three page two-sided color brochure entitled "Accuracy, flexibility and performance are at your fingertips with ConveyPacer III Series "S" Controller" of Mould-tek, 1999.

Seven page two-sided color brochure plus cover entitled "Exac-U-Batch Series Weigh Scale Blenders: Engineered to be the ultimate blend of precision and control!" of Mould-tek, 2000.

Three page two-sided color brochure entitled "We have the building blocks to integrate your entire plastics bulk handling system." of Mould-tek, 1999.

Four page two-sided color brochure entitled AEC Whitlock: Vacuum Conveying Systems: VacTrac™ Series of AEC, Inc., 1991.

One page color brochure entitled "AEC Engineering What's Next: One Touch. Two Wires. Total Control." of AEC, Inc., 2000.

One page two-sided color brochure entitled Vactrac™ Series Vacuum Conveying Controls of AEC, Inc., 2000.

One page two-sided color brochure entitled "Vacuum Conveying Systems: VacTrac™ Series 8-Station SMART™ Control" of AEC, Inc., 1997.

Two page two-sided color brochure entitled "Model GXB-2202 Exac-U-Batch Gravimetric Scale Blender: Accurate weigh scale blending under precise computer control" of Mould-tek, 2000.

Forty-four page two-sided brochure including cover and back pages entitled "Maguire: Auxiliary equipment for the plastics industry" of Maguire Products, Inc., Oct. 2000.

Two page two-sided color brochure entitled "WDMR Series Compact Dryers" of AEC Whitlock, 1998.

Two page two-sided color reprint entitled "10 most frequently asked questions about Dryers" by Joseph Dziedz, AEC/Whitlock, from *Plastics Technology*, Jan. 1998.

Two page two-sided color brochure entitled "Drying Systems: WD Series High Capacity Dehumidifying Dryers" of AEC Whitlock, 1997.

Three page two-sided color brochure entitled "Portable Drying and Conveying Systems: Nomad™ Series Portable Dryers", AEC Whitlock, 1998.

Two page two-sided color brochure entitled "Drying Systems: WD Series Dehumidifying Dryers" of AEC Whitlock, 1997.

Five page two-sided color brochure entitled "AEC Auxiliaries As Primary", AEC, Inc., 1999.

19 page document entitled "Model MLS—Clear Vu Eight Component Vacuum Loading System: Operation Manual" of Maguire Products, Inc. dated May 4, 1999.

One page two-sided color brochure entitled "Maguire Clear-Vu™ Loading System" of Maguire Products, Inc.

Eight page two-sided color brochure entitled "Novatec Inc. Material Conveying Solutions for the Plastics Industry", 1999.

Two page two-sided color brochure entitled Maguire Model MPM Pre-Mixers of Maguire Products, Inc., Apr. 1997.

One page, two-sided color brochure entitled "Bulk handling power: the manufacturer of the world's most advanced blender gives you the same performance in bulk handling systems" of Mould-Tek, dated Apr. 1999.

Instructions for the Model GVL Glass-Vu Loader, Model: GVL-10, Maguire Products Inc., Oct. 6, 2009 (15 pages).

Model MLS Clear Vu® Eight Component Vacuum Loading System, Installation-Operation-Maintenance, Maguire Products, Inc., Jul. 25, 2010 (30 pages).

MPL Series—ML Series® Venturi Loaders Instruction Manual, Maguire Products, Inc., Aug. 9, 2010 (23 pages).

International Search Report and Written Opinion for PCT/US2016/069089, dated Mar. 20, 2017.

* cited by examiner

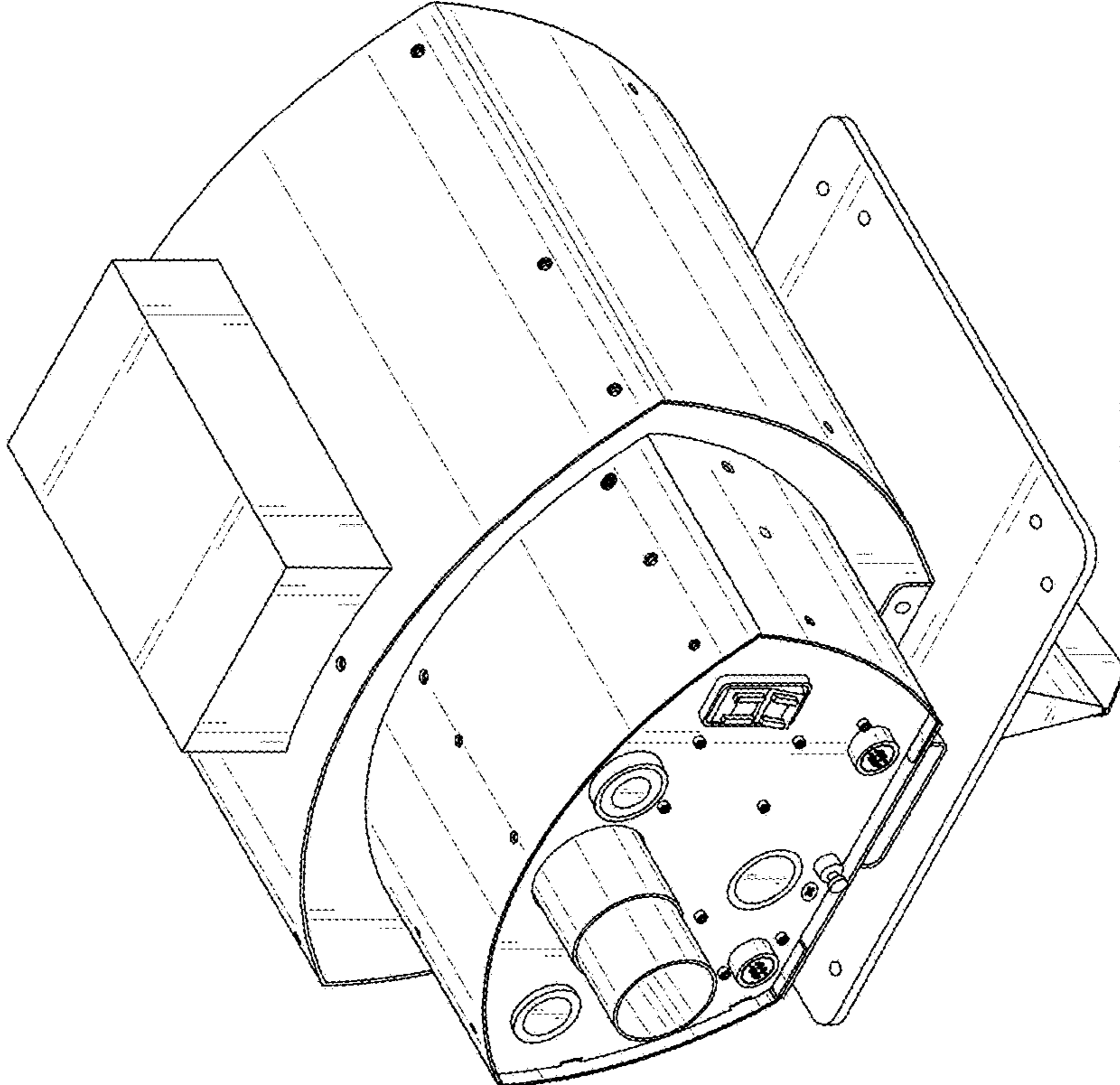


FIG. 1

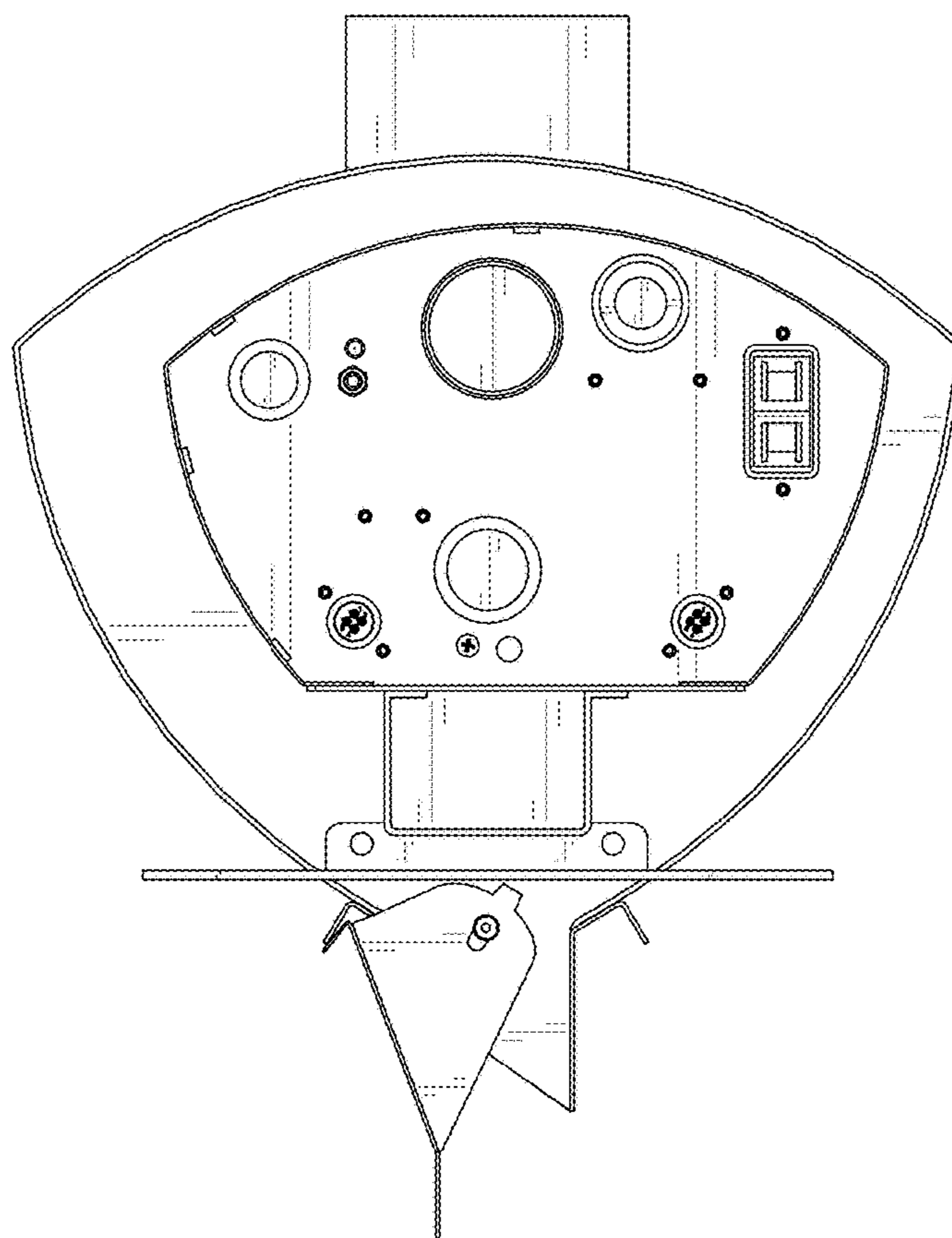


FIG. 2

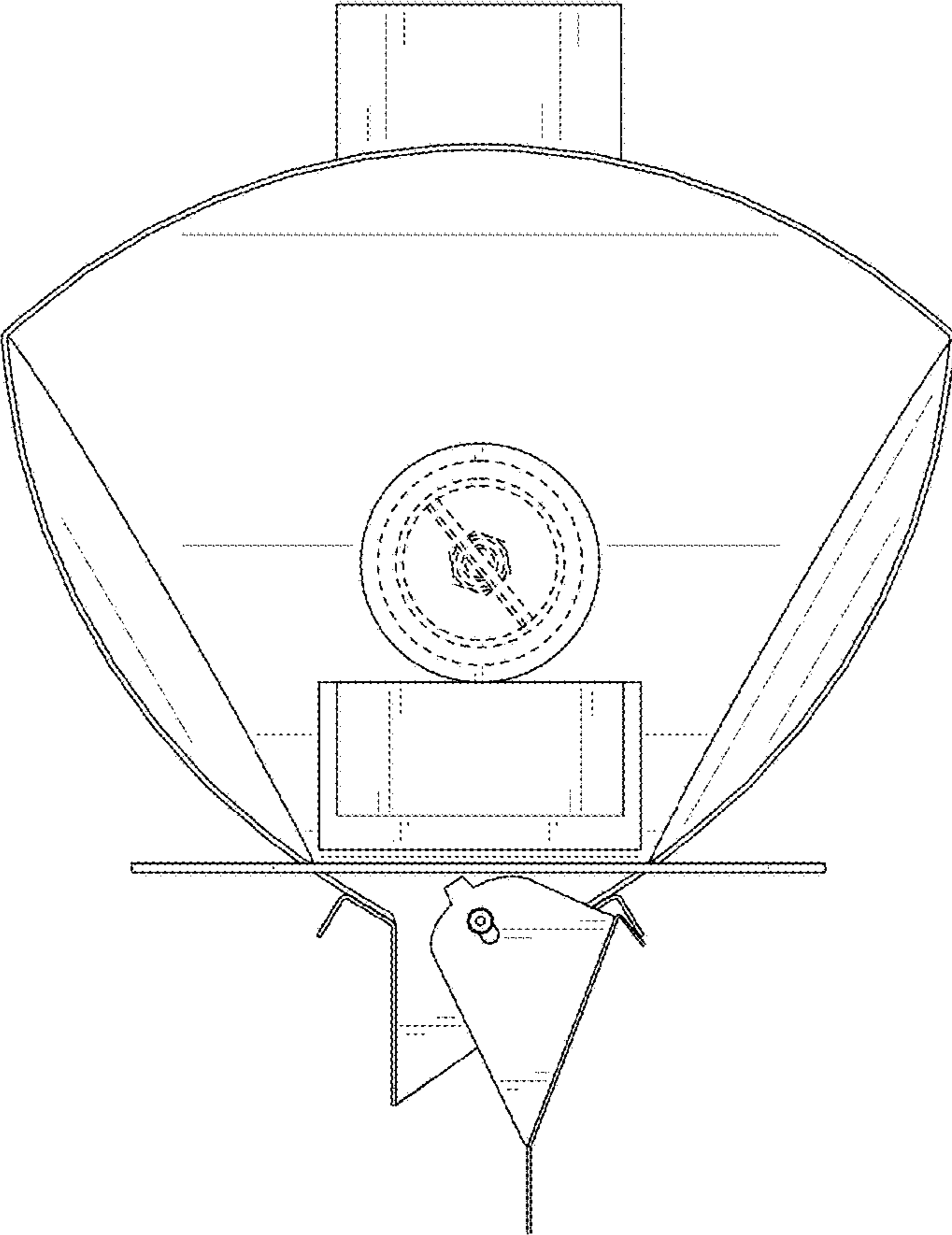


FIG. 3

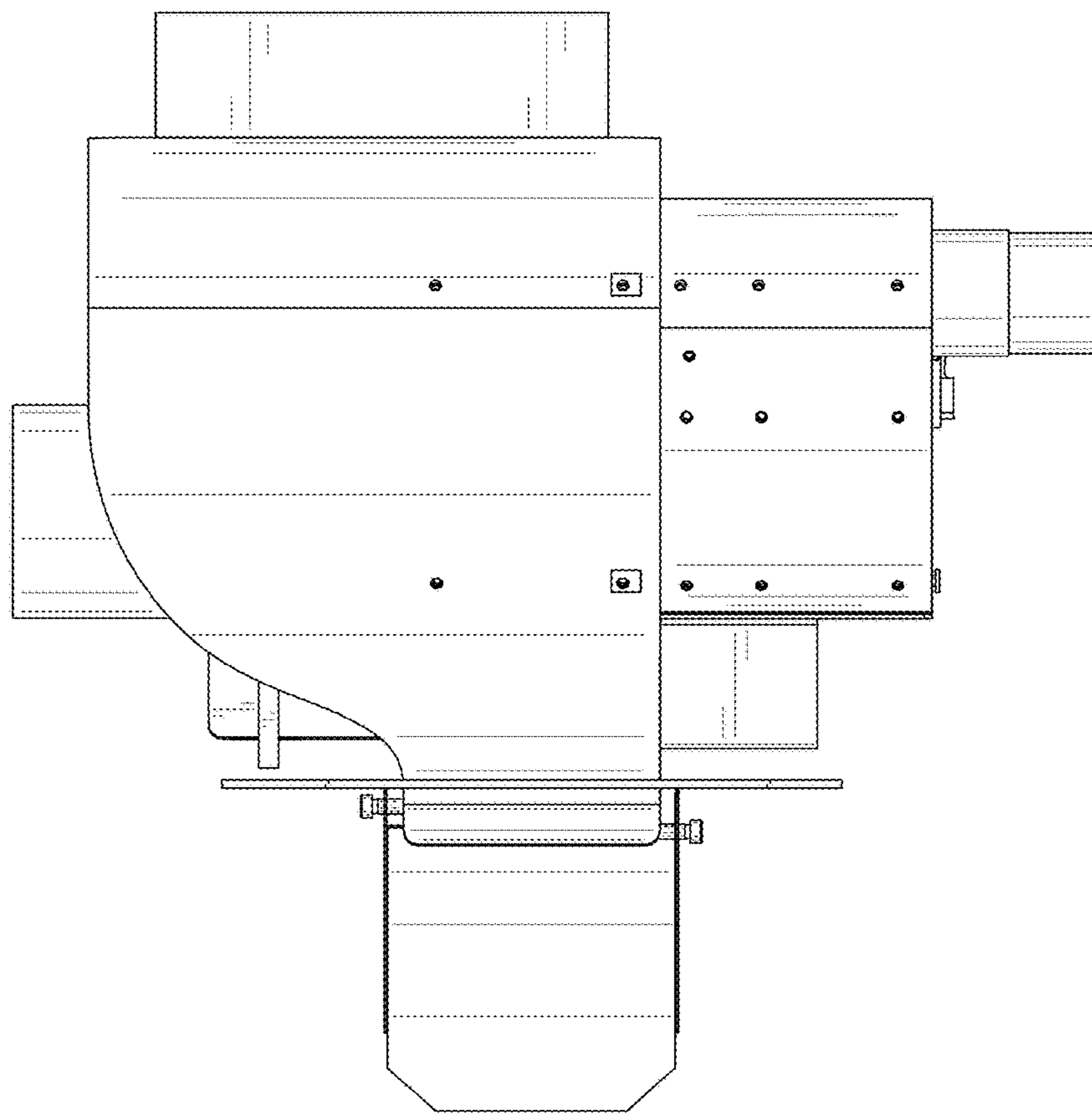


FIG. 4

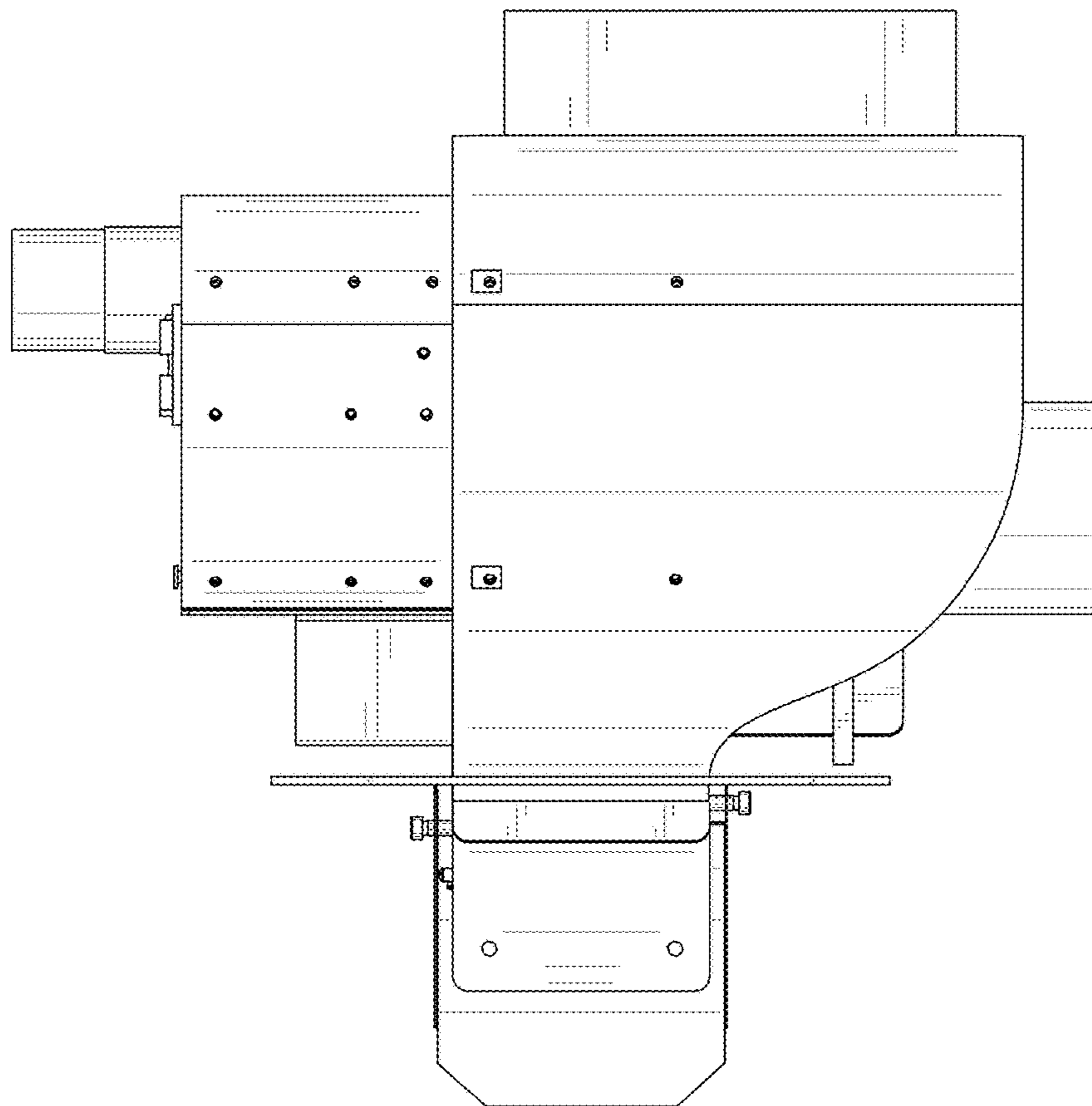


FIG. 5

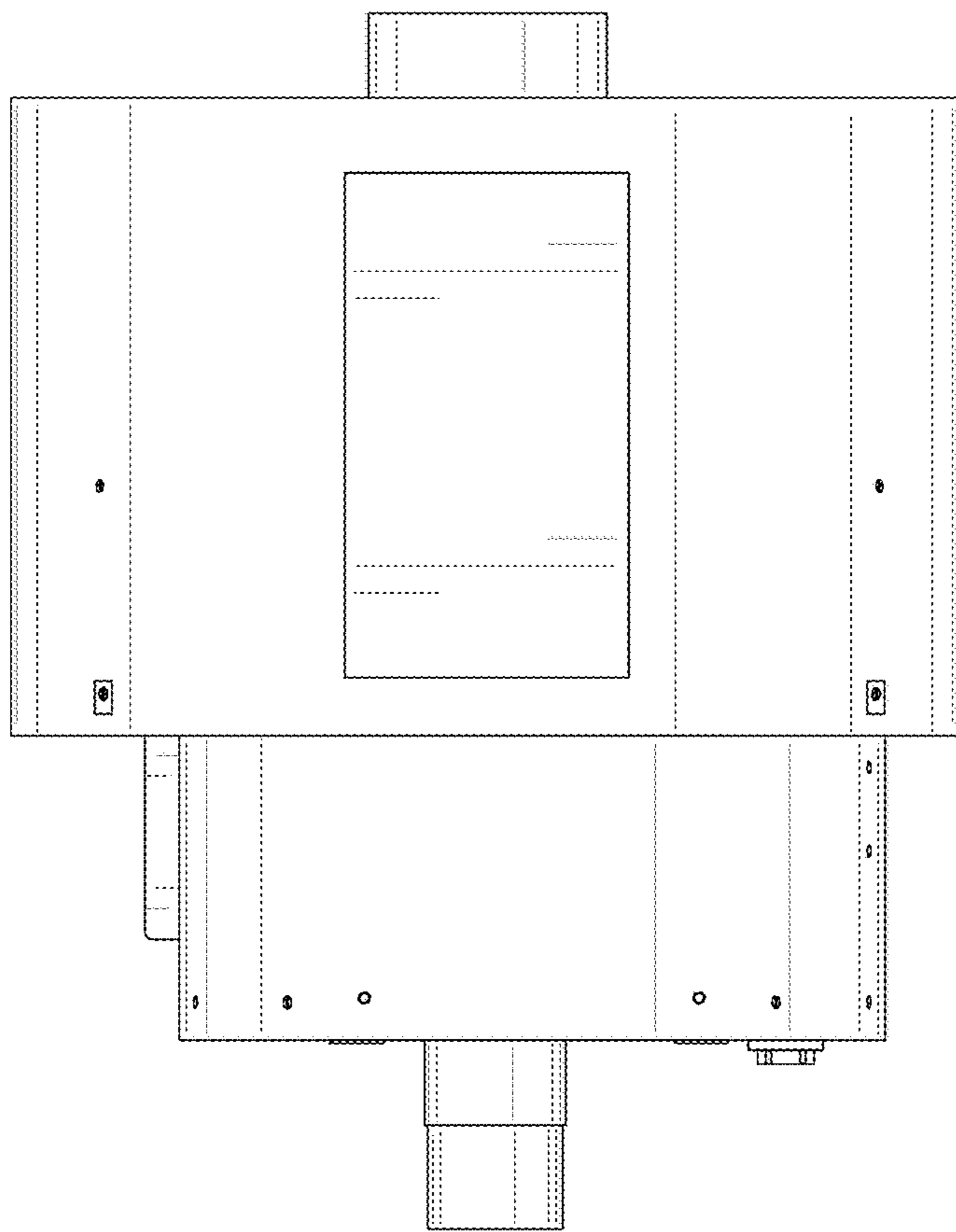


FIG. 6

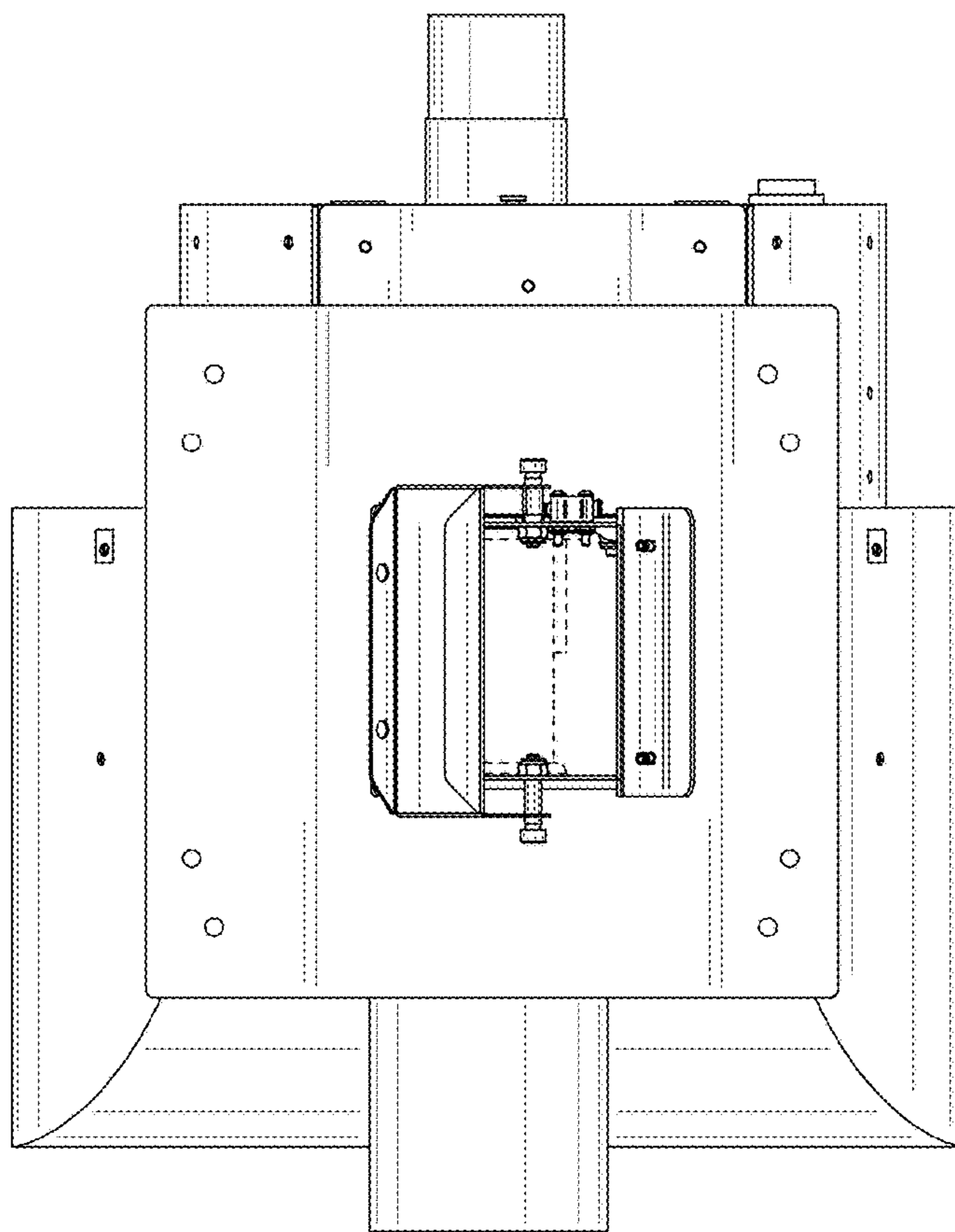


FIG. 7