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(12) **United States Design Patent** (10) **Patent No.:** **US D884,644 S**
Milroy et al. (45) **Date of Patent:** **** May 19, 2020**

(54) **POWER CONNECTOR**
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4,568,289 A 2/1986 Heidrich et al.
D298,029 S 10/1988 Foster
5,296,797 A 3/1994 Bartlett
5,385,476 A 1/1995 Jasper
5,445,545 A 8/1995 Draper
(Continued)

FOREIGN PATENT DOCUMENTS

CN 102069715 5/2011
DE 102013218674 3/2015
(Continued)

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

OTHER PUBLICATIONS

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(52) **U.S. Cl.**
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B60L 11/18; B63H 20/00; B63H 20/32;
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H02J 7/00
See application file for complete search history.

“Compound Planetary Gear,” Planetary Gear Train with; Stepped Planet Gear Set—Matlab, <http://www.mathworks.com>, accessed Aug. 25, 2017, 3 pages.

(Continued)

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(57) **CLAIM**

The ornamental design for the power connector, as shown and described.

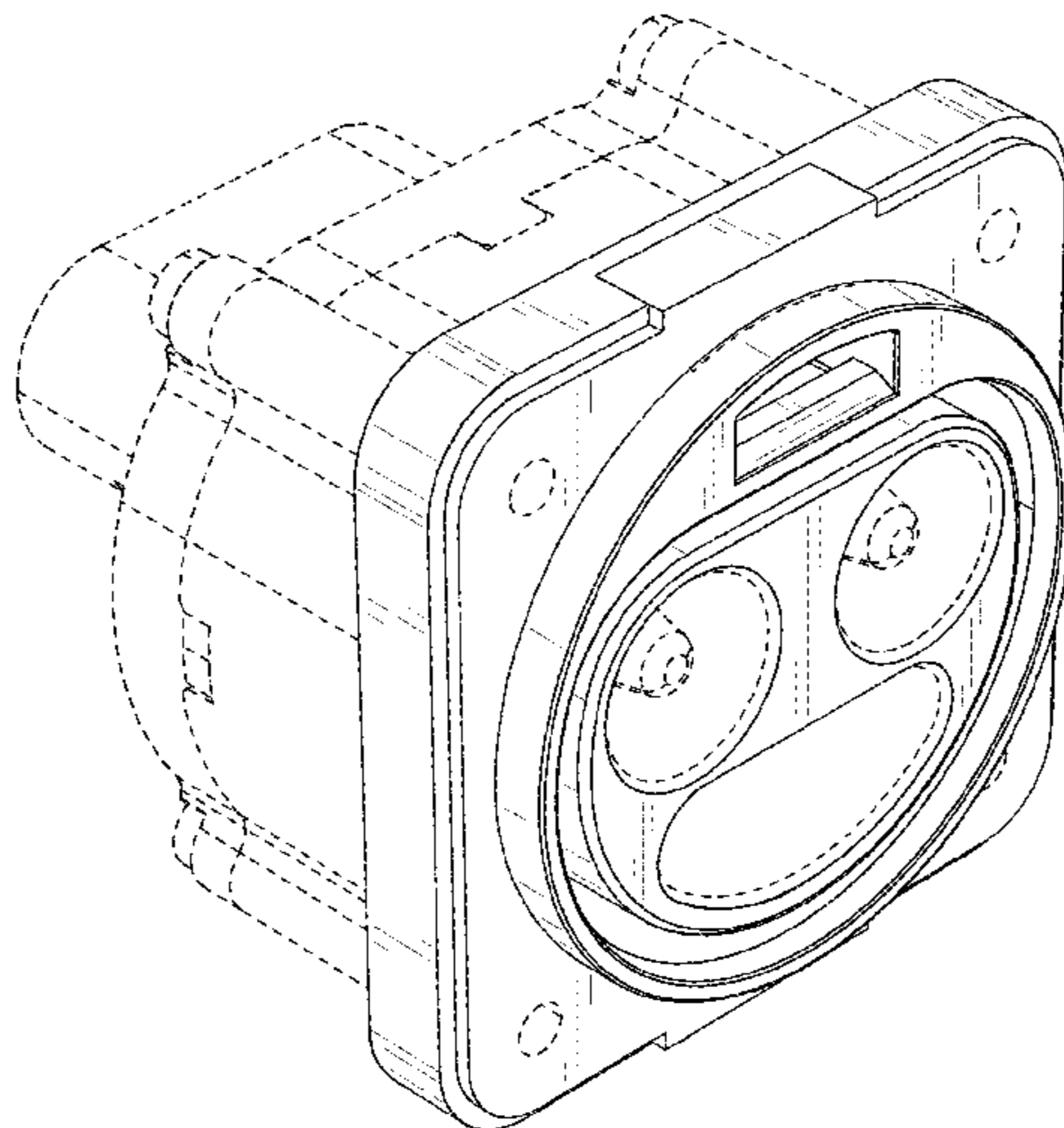
DESCRIPTION

FIG. 1 is an isometric view of a power connector showing the new design.
FIG. 2 is a front elevational view thereof.
FIG. 3 is a rear elevational view thereof.
FIG. 4 is a right-side elevational view thereof. The left side elevation view is a mirror image of the right-side elevational view.
FIG. 5 is a top plan view thereof; and,
FIG. 6 is a bottom plan view thereof.
The broken lines in the drawings illustrate portions of the power connector that form no part of the claimed design.

(56) **References Cited**
U.S. PATENT DOCUMENTS

3,841,396 A 10/1974 Knaebel et al.
4,009,677 A 3/1977 Croisant et al.
4,092,946 A 6/1978 Kappas
4,099,478 A 7/1978 Alexander, Jr.
4,305,012 A 12/1981 Friedel

1 Claim, 4 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

5,571,023 A * 11/1996 Anthony H02G 3/14
220/242
5,580,266 A 12/1996 Shelly et al.
5,588,853 A * 12/1996 Anthony H01R 13/5213
220/375
D378,292 S * 3/1997 Yoshioka D13/146
5,626,486 A 5/1997 Shelly et al.
D381,628 S 7/1997 Ashida et al.
D390,834 S 2/1998 Dizon et al.
D402,275 S 12/1998 Korhonen
5,967,863 A 10/1999 Marchant
D430,115 S 8/2000 Cole et al.
D437,586 S 2/2001 Sonntag
6,203,355 B1 3/2001 Neblett et al.
6,224,428 B1 5/2001 Chen et al.
6,231,407 B1 5/2001 Hein et al.
D444,772 S 7/2001 Milan
D475,018 S 5/2003 Ashida et al.
6,865,280 B2 * 3/2005 Lin H01R 13/111
381/361
D505,918 S 6/2005 Conway et al.
D506,184 S 6/2005 Sirichai et al.
D523,812 S * 6/2006 Brodin D13/146
D543,154 S 5/2007 Suckle et al.
7,270,074 B2 9/2007 Pradetto et al.
D556,146 S 11/2007 Victor
D606,033 S 12/2009 Sonntag
7,641,499 B1 1/2010 George et al.
D611,427 S 3/2010 Hynecek et al.
D624,878 S 10/2010 Uneo et al.
D645,022 S 9/2011 Lee et al.
D649,938 S * 12/2011 Erickson D13/147
D649,939 S * 12/2011 Erickson D13/147
8,658,299 B2 2/2014 Yang et al.
D734,267 S 7/2015 Dobler et al.
D755,720 S 5/2016 Dobler et al.
D772,185 S 11/2016 Moninski
D778,853 S 2/2017 Skowranek et al.
D784,258 S 4/2017 Vienna et al.
D785,567 S 5/2017 Abena et al.
D789,297 S 6/2017 Dobler et al.
D793,977 S 8/2017 Chung et al.
D795,215 S 8/2017 Huang et al.
D830,965 S 10/2018 Varatharajah et al.
D836,546 S 12/2018 Kang
D840,934 S * 2/2019 Marchesi D13/120
D842,243 S 3/2019 Qiu
D845,894 S 4/2019 Clark
D851,614 S 6/2019 Ji
2004/0130292 A1 7/2004 Buchanan et al.
2005/0275372 A1 12/2005 Crowell
2008/0268333 A1 10/2008 Barrella et al.

2010/0248562 A1 9/2010 Daikoku
2011/0263165 A1 10/2011 Rolla
2011/0291611 A1 12/2011 Manor
2011/0293973 A1 12/2011 Kim
2011/0300424 A1 12/2011 Kim
2012/0074901 A1 3/2012 Mohammed
2012/0153899 A1 6/2012 Marschalkowski et al.
2012/0214042 A1 8/2012 Wiegert
2012/0282497 A1 11/2012 Yang et al.
2012/0282825 A1 11/2012 Lin
2013/0049677 A1 2/2013 Bouman
2013/0078839 A1 * 3/2013 Musk B60L 11/1818
439/345
2013/0229072 A1 9/2013 Matsuda
2014/0187107 A1 7/2014 Gemin et al.
2014/0273571 A1 9/2014 Iyer et al.
2014/0377990 A1 12/2014 Sailer et al.
2015/0017841 A1 * 1/2015 Chen H01R 13/64
439/680
2015/0077040 A1 3/2015 Longdon et al.
2015/0130421 A1 5/2015 Bevilacqua, III
2015/0325961 A1 11/2015 Blakborn
2015/0340806 A1 11/2015 Ilkhanov et al.
2015/0357692 A1 12/2015 Piggott et al.
2015/0372279 A1 12/2015 Li
2016/0111831 A1 * 4/2016 Kawai H01R 13/04
439/620.21
2016/0114692 A1 4/2016 Tripathi et al.
2016/0126679 A1 5/2016 Kim
2016/0248192 A1 * 8/2016 Hamada H01R 13/5219
2017/0279210 A1 9/2017 Kraemer et al.
2018/0019535 A1 * 1/2018 Uenosono H01R 13/426
2018/0048091 A1 * 2/2018 Kawai H01R 12/65
2019/0148876 A1 5/2019 Milroy et al.
2019/0237889 A1 * 8/2019 Peng H01R 13/11
2019/0356091 A1 * 11/2019 Aridah H01R 24/38

FOREIGN PATENT DOCUMENTS

EP 2372828 10/2011
JP 2005162055 6/2005
WO WO-2014021841 2/2014

OTHER PUBLICATIONS

Nitrofreeze “Shrink Fitting,” <https://web.archive.org/web/20160724183319/http://nitrofreeze.com/services/custom-cryogenic-processing/shrink-fitting/>, Jul. 24, 2016, 3 pages.
Maritime Propulsion, Powering the Maritime Industry, “Pure Watercraft Unveils Battery Pack,” <https://www.maritimepropulsion.com/news/pure-watercraft-unveils-battery-560733>, Published Dec. 13, 2018, 1 page.

* cited by examiner

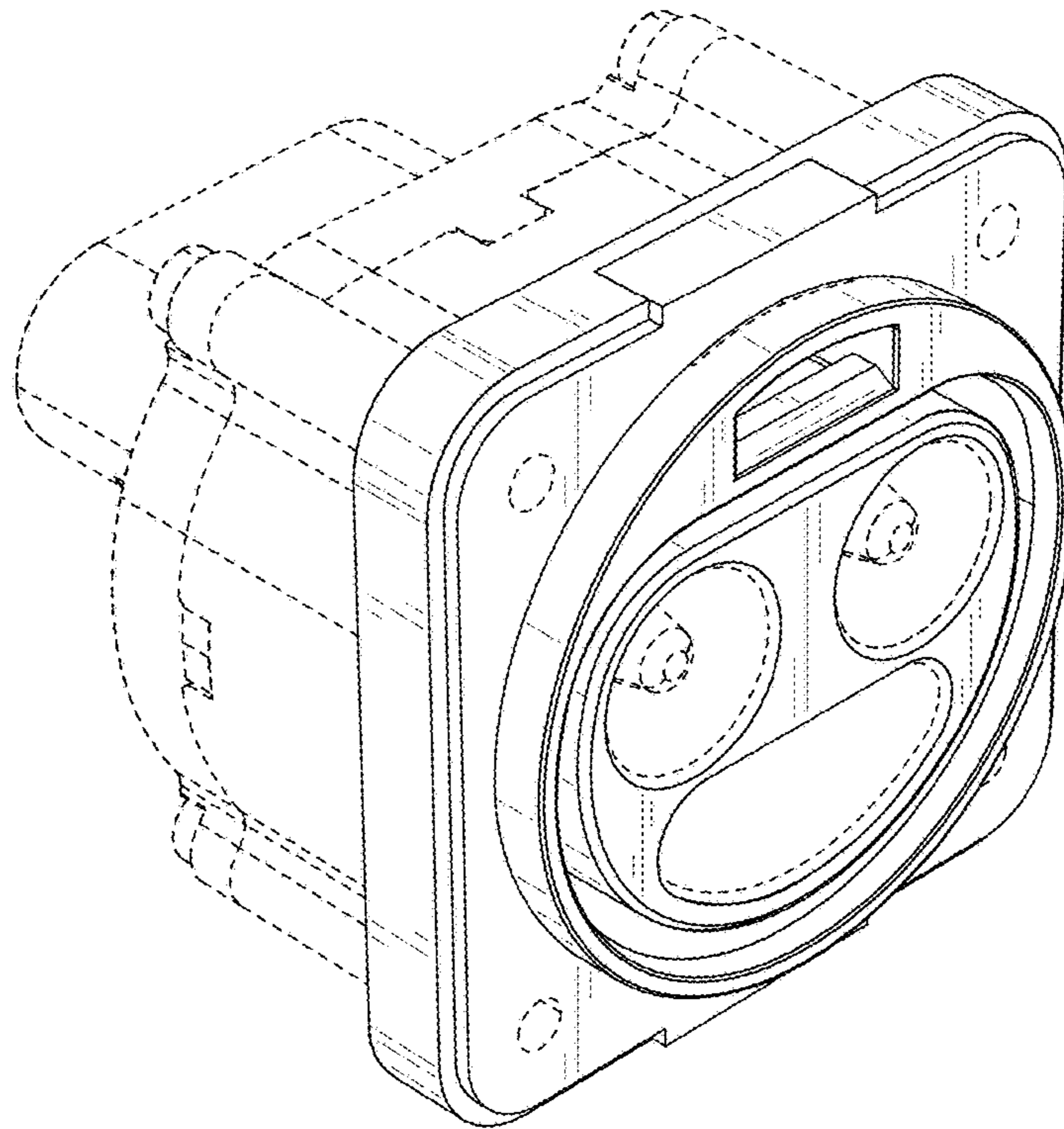


Fig. 1

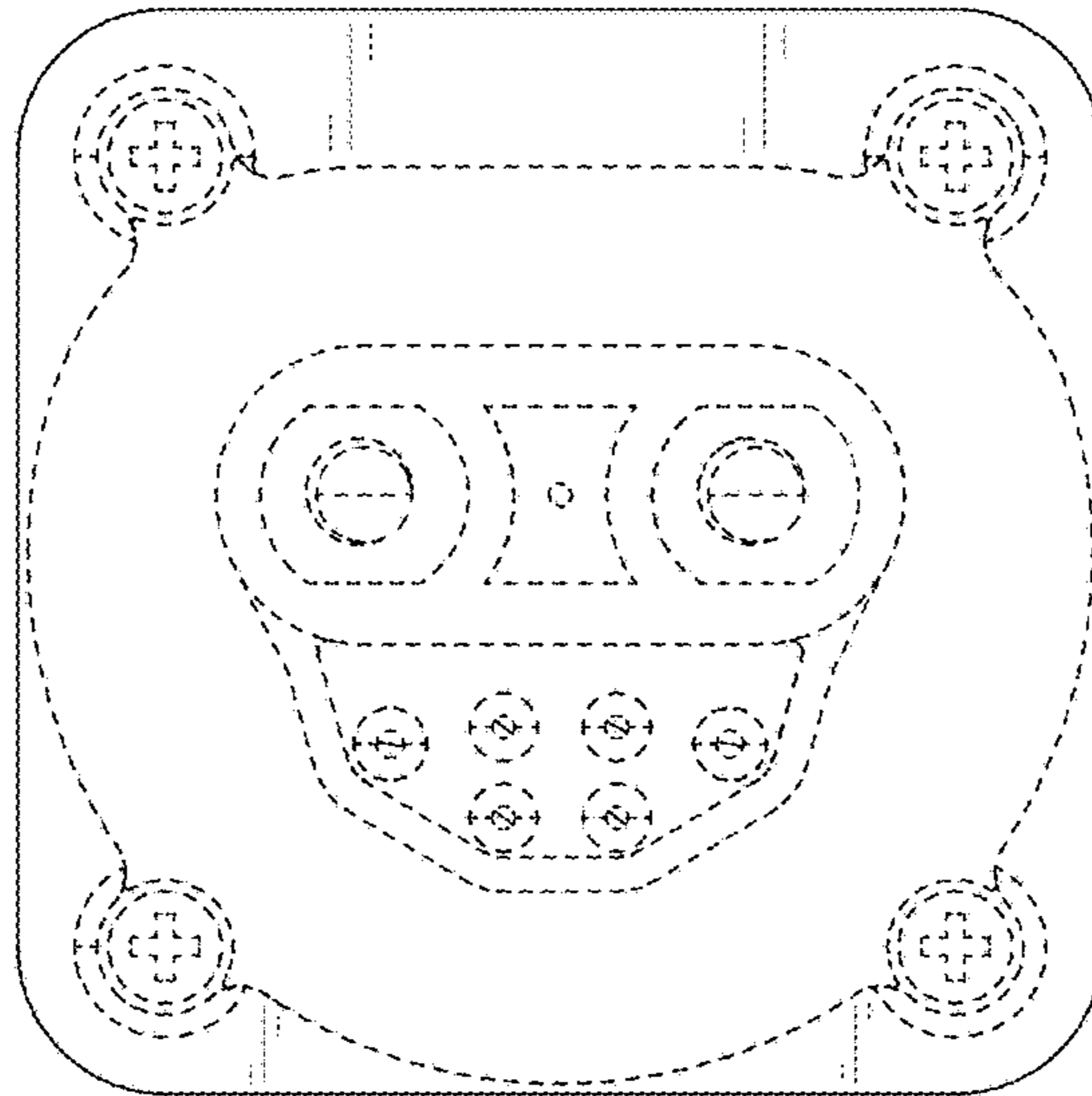


Fig. 2

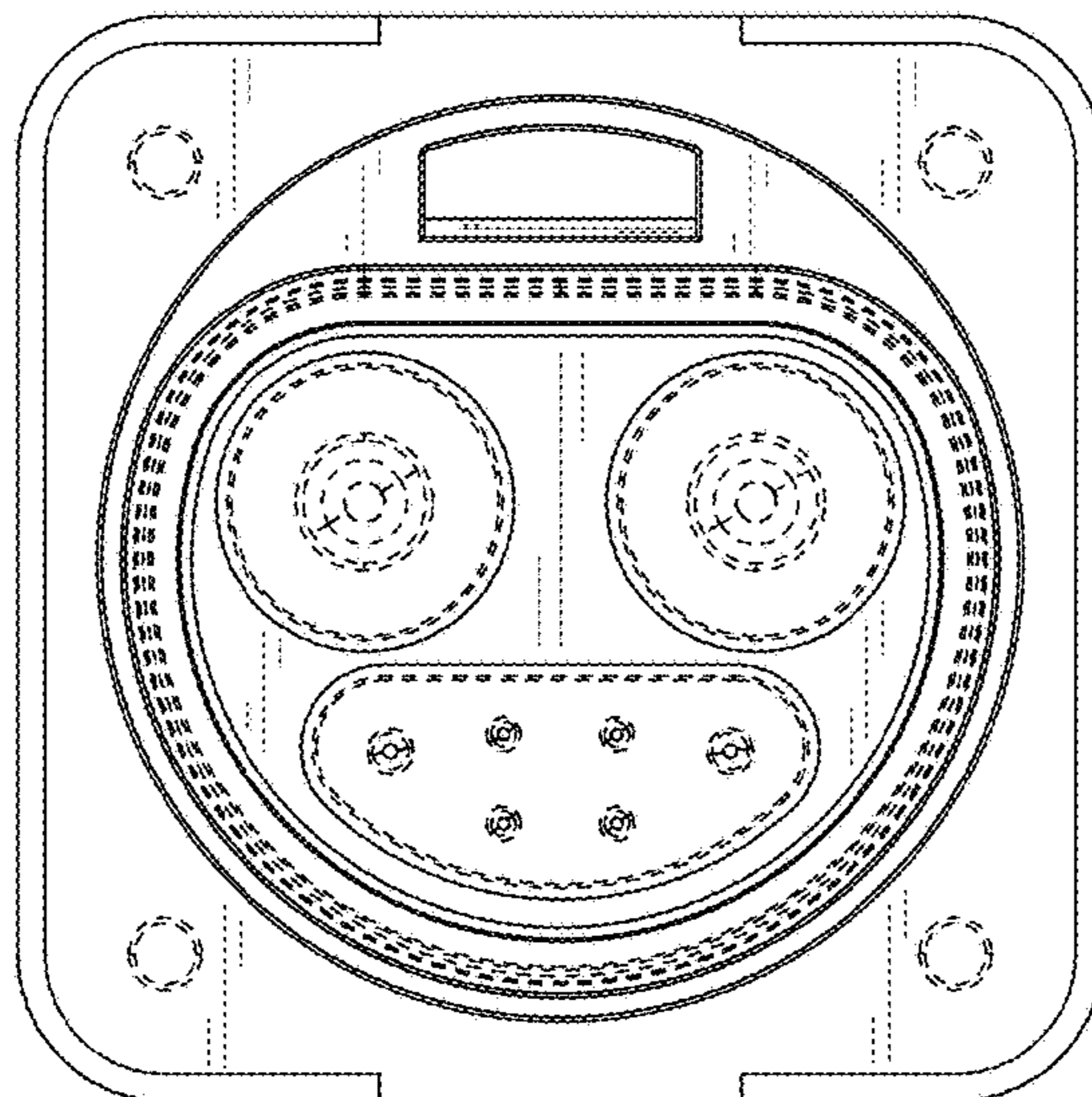


Fig. 3

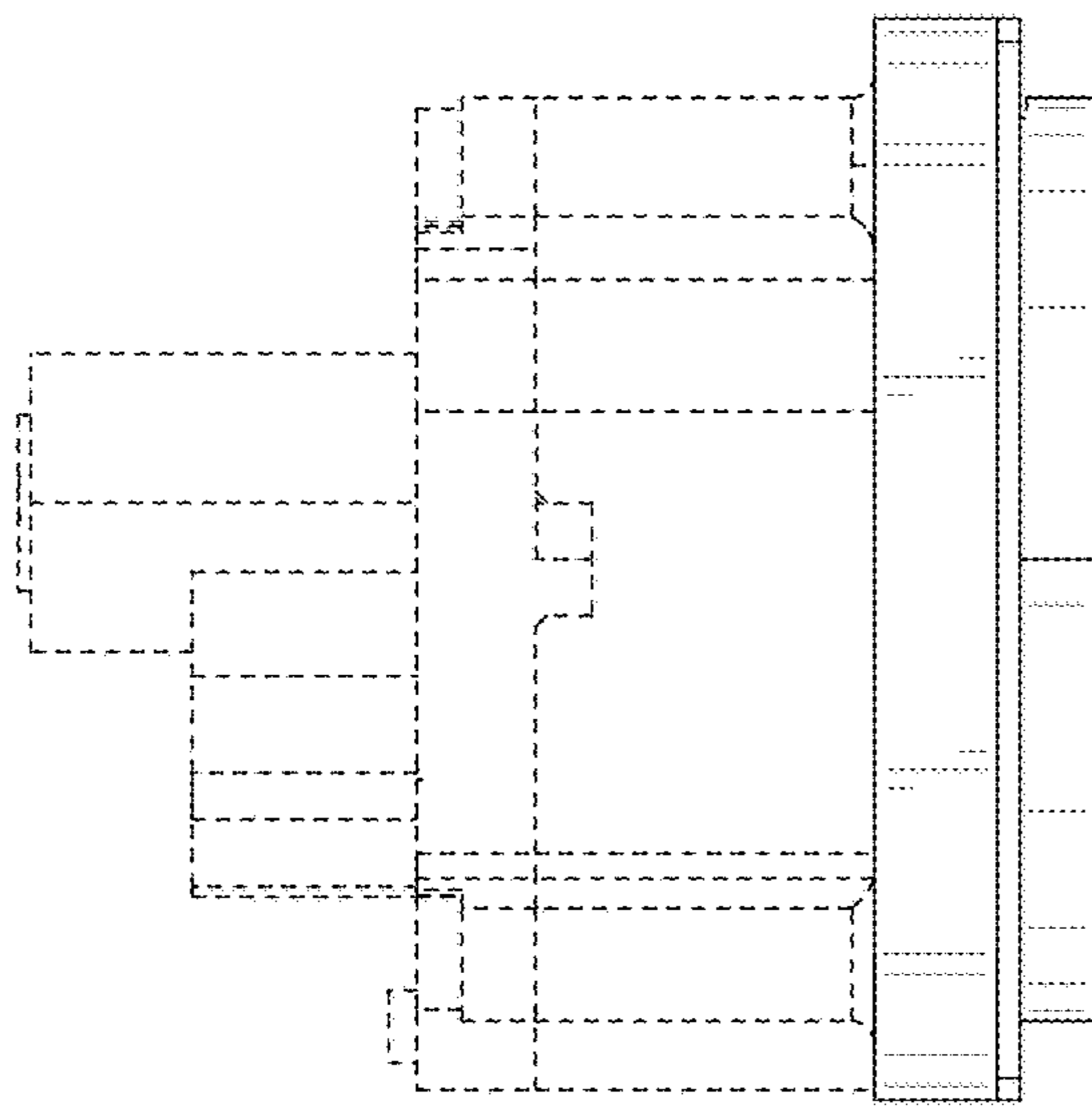


Fig. 4

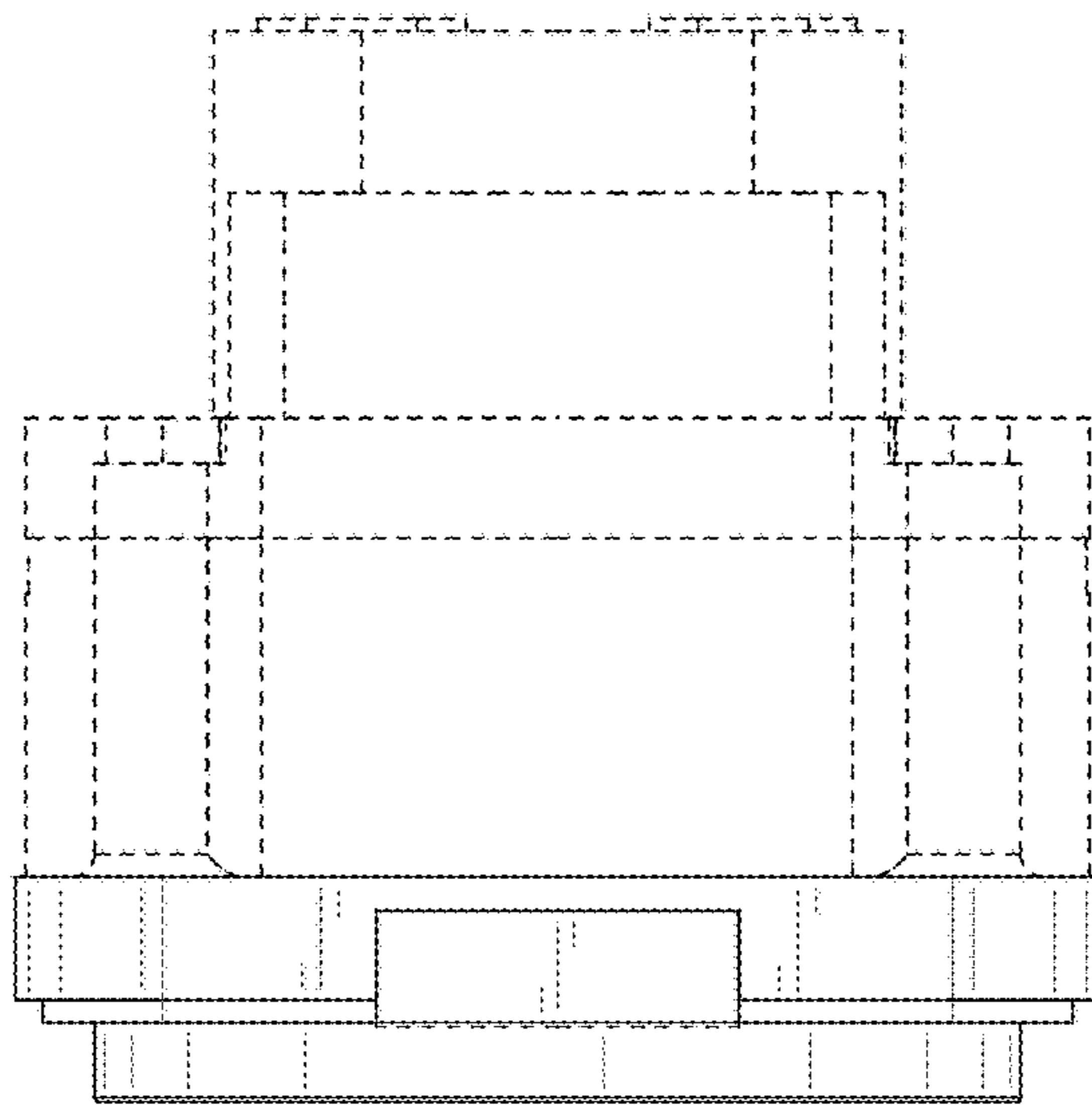


Fig. 5

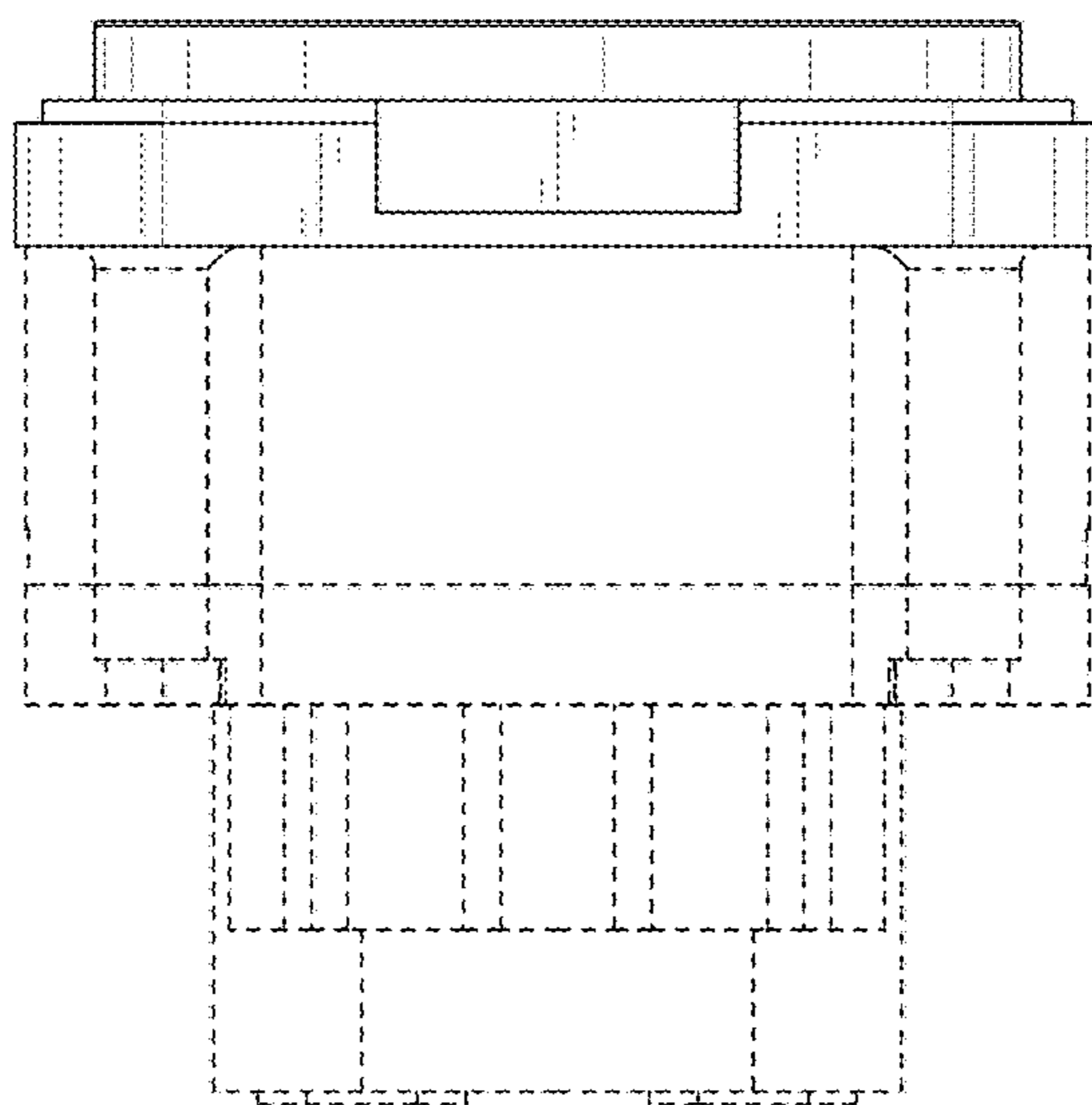


Fig. 6