



US00D945376S

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

(10) **Patent No.:** **US D945,376 S**
(45) **Date of Patent:** **** Mar. 8, 2022**

(54) **SIGNAL TRANSFER CONNECTOR**

(71) Applicant: **OMRON Corporation**, Kyoto (JP)

(72) Inventors: **Takamasa Yamaji**, Kusatsu (JP); **Heita Nada**, Ritto (JP)

(73) Assignee: **OMRON Corporation**, Kyoto (JP)

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

(21) Appl. No.: **29/747,735**

(22) Filed: **Aug. 25, 2020**

Related U.S. Application Data

(62) Division of application No. 29/669,492, filed on Nov. 8, 2018, now Pat. No. Des. 904,312.

(30) **Foreign Application Priority Data**

Jul. 4, 2018 (JP) 2018-014804
Jul. 4, 2018 (JP) 2018-014805

(51) **LOC (13) Cl.** **13-03**

(52) **U.S. Cl.**
USPC **D13/147**

(58) **Field of Classification Search**
USPC D13/133, 137.1, 137.2, 137.3, 137.4,
D13/138.1, 138.2, 139.1, 139.2, 139.7,
D13/139.8, 146, 147, 154, 155, 199
CPC H01R 12/592; H01R 13/62; H01R 24/00;
H01R 25/00
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D35,071 S * 9/1901 Hammann D13/199
3,363,217 A * 1/1968 Garver H01R 13/71
439/337
D309,599 S * 7/1990 Widell D13/133

5,631,673 A * 5/1997 Yamamoto G04G 15/00
345/168
D421,964 S * 3/2000 Nagasawa D13/147
D442,552 S * 5/2001 Goto D13/147
D470,107 S 2/2003 Li et al.
6,952,960 B2 * 10/2005 Nozoe G01F 15/00
73/204.21
D541,273 S 4/2007 Wang
7,243,562 B2 7/2007 Enright
(Continued)

OTHER PUBLICATIONS

“Buywhat Power Inverter”. Found online Nov. 16, 2021 at amazon.com. Reference dated Aug. 18, 2018. Retrieved from https://www.amazon.com/dp/B07GLP63FW/ref=sspa_dk_detail_2. (Year: 2018).*
(Continued)

Primary Examiner — Kendra Leslie Hamilton
Assistant Examiner — Amanda Christensen
(74) *Attorney, Agent, or Firm* — Capitol City TechLaw

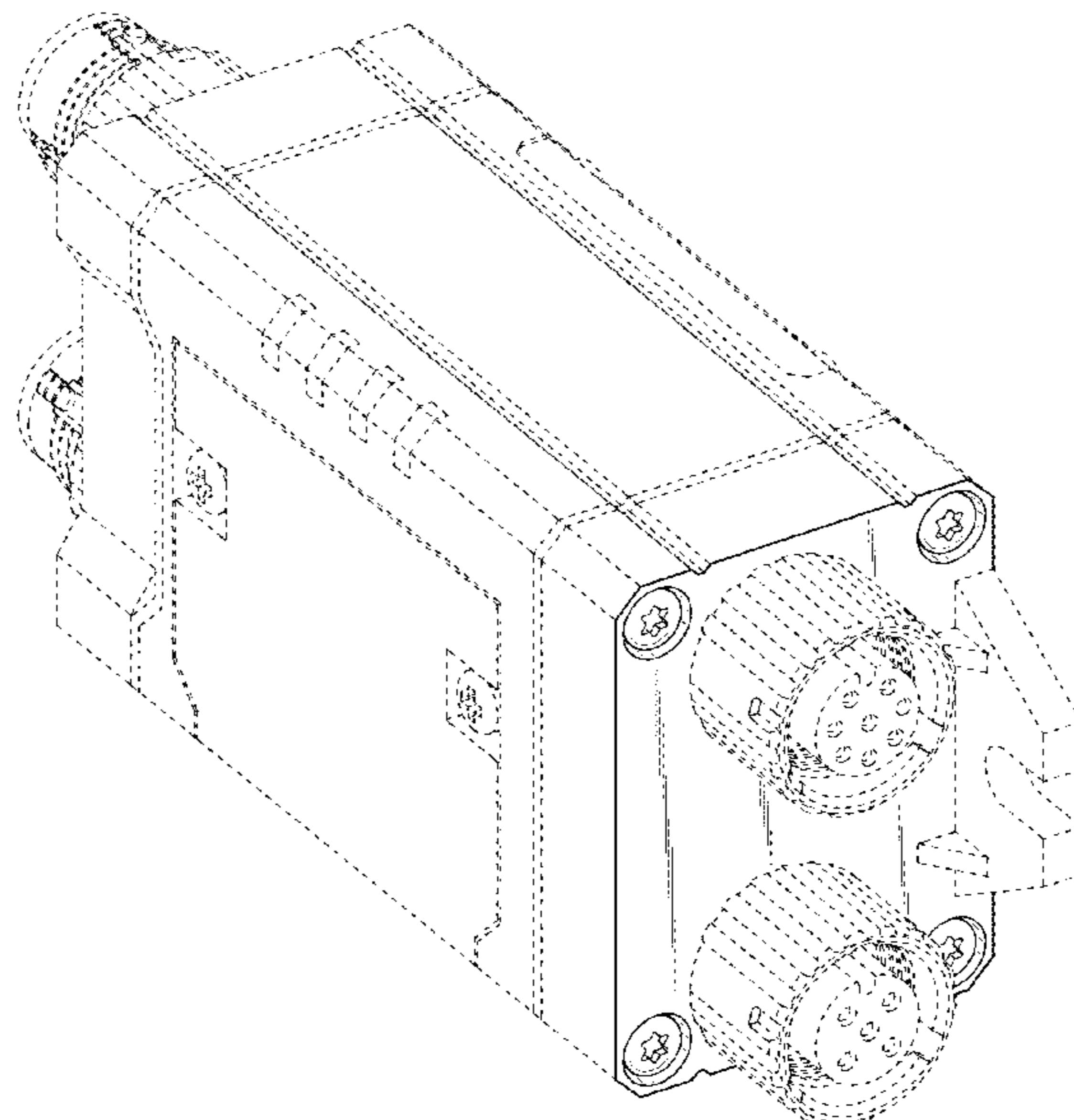
(57) **CLAIM**

The ornamental design for a signal transfer connector, as shown and described.

DESCRIPTION

FIG. 1 is a front, top, and right side perspective view of a signal transfer connector showing our new design;
FIG. 2 is a front, bottom, and right side perspective view thereof;
FIG. 3 is a front view thereof;
FIG. 4 is a rear view thereof;
FIG. 5 is a left side view thereof;
FIG. 6 is a right side view thereof;
FIG. 7 is a top view thereof; and,
FIG. 8 is a bottom view thereof.
The broken lines in the figures show portions of the signal transfer connector that form no part of the claimed design.

1 Claim, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D550,617	S	9/2007	Wang	
7,269,003	B1	9/2007	Chung	
D593,962	S	6/2009	Ross et al.	
D674,343	S	1/2013	Chen	
D688,627	S	8/2013	Veeh	
D704,660	S	5/2014	Smith et al.	
9,368,930	B2	6/2016	Smith et al.	
D783,537	S *	4/2017	Skov	D13/147
D853,962	S	7/2019	Kanarellis	
D866,475	S	11/2019	Pan et al.	
D870,685	S *	12/2019	Archer	D13/184
D875,681	S	2/2020	Xu	
D895,547	S *	9/2020	Kuo	D13/110
10,811,198	B2 *	10/2020	Shinohara	H01H 21/36
D904,312	S *	12/2020	Yamaji	D13/147
2020/0131809	A1 *	4/2020	Almodovar	E05B 81/62

OTHER PUBLICATIONS

“POTEK”. Found online Nov. 16, 2021 at amazon.com. Reference dated Jan. 10, 2017. Retrieved from <https://www.amazon.com/>

POTEK-Power-Inverter-Charging-Laptop/dp/B01N1033XI/ref=sr_1_1 (Year: 2017).*

“Eightwood Electronic Case”. Found online Jun. 17, 2020 at amazon.com. Reference dated Jul. 8, 2015. Retrieved from https://www.amazon.com/Eightwood-Enclosure-Electronic-Pre-assembled-Extrusion/dp/B0107WU67M/ref=pd_sbs_328_7. (Year: 2015).*

“Inkbird SSR Solid State Relay”. Found online Jun. 10, 2020 at amazon.com. Reference dated Jan. 4, 2011. Retrieved from https://www.amazon.com/INKBIRD-Solid-State-SSR-40DA-24-380V/dp/B00HV974KC/refsr_1_1. (Year: 2011).

“Eightwood Box Enclosure”. Found online Jun. 17, 2020 at amazon.com. Reference dated Jun. 14, 2017. Retrieved from https://www.amazon.com/Eightwood-Enclosure-Electronic-Instrument-Amplifier/dp/B071X91JDZ/ref=pd_sbs_60_1/132-8872043-7311067. (Year: 2017).

“Eightwood Box Enclosure”. Found online Jun. 17, 2020 at amazon.com. Reference dated Jun. 25, 2015. Retrieved from https://www.amazon.com/Eightwood-Aluminum-Electronic-Enclosure-DIY-4-72/dp/B010DHQPVW/ref=pd_sbs_60_2/132-8872043-7311067. (Year: 2015).

“Polycase Plastic Enclosures”. Found online Jun. 17, 2020 at polycase.com Reference dated Dec. 23, 2009 Retrieved from <https://www.polycase.com/bt-3315>. (Year: 2009).

* cited by examiner

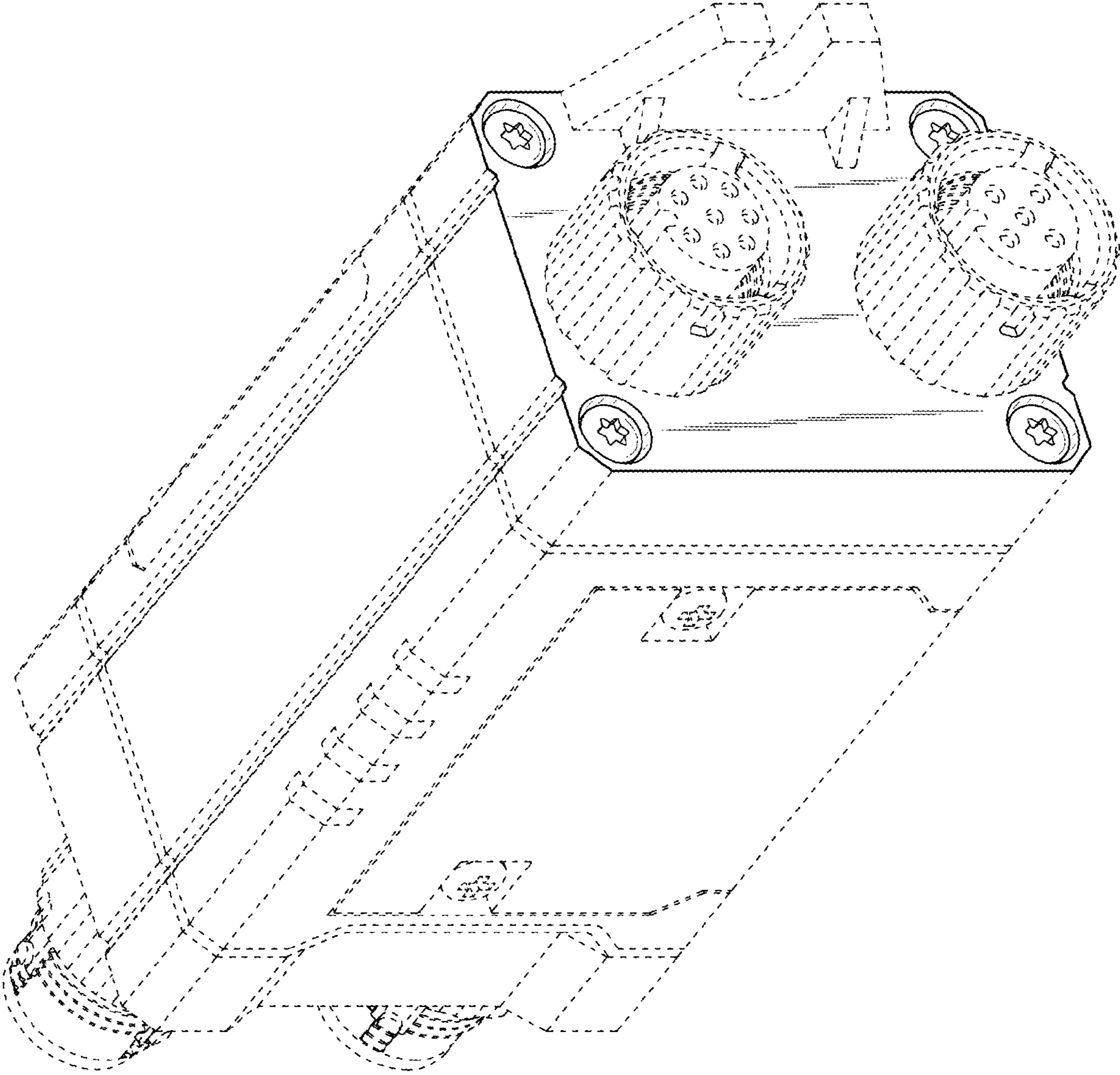


Fig. 1

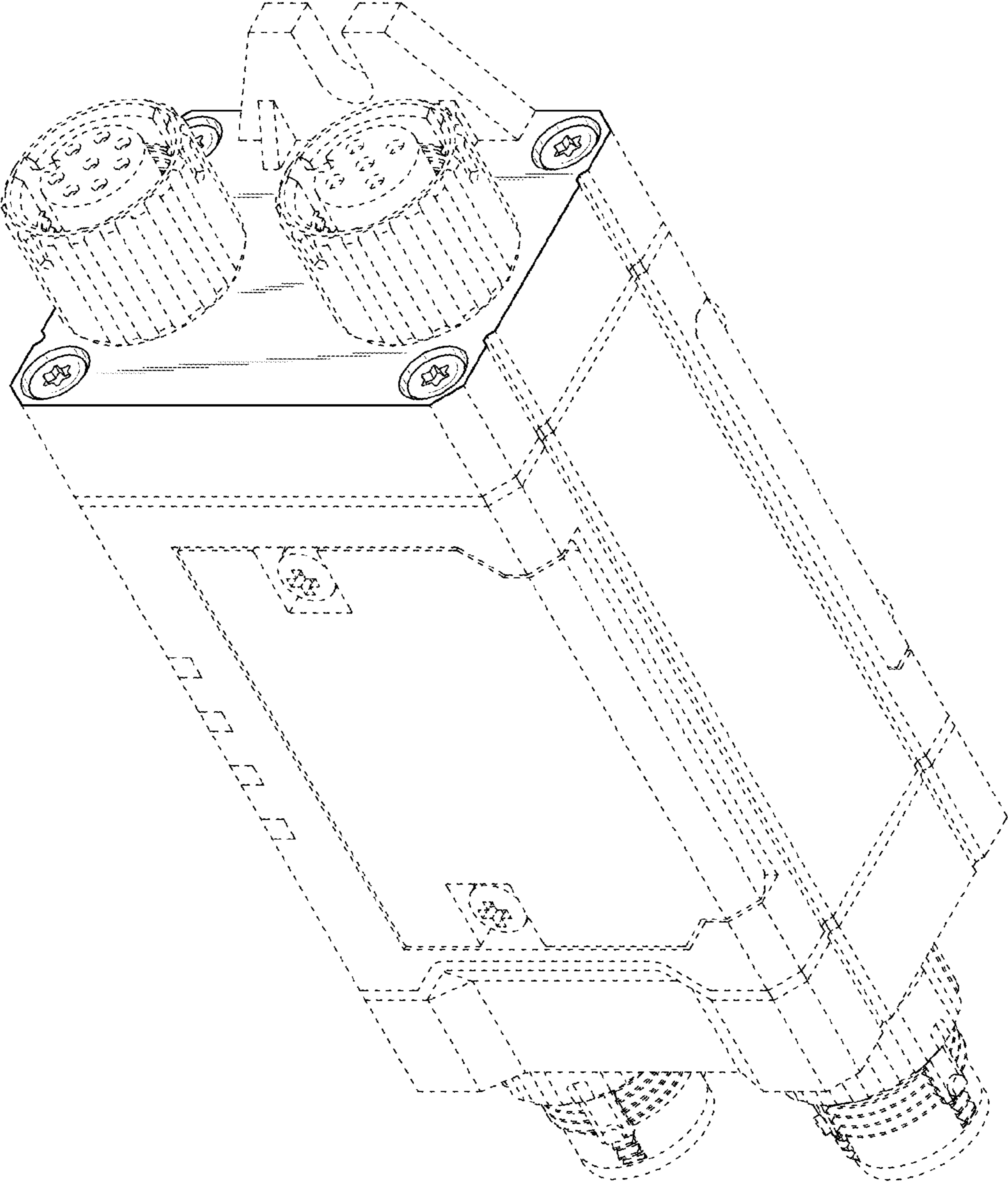


Fig. 2

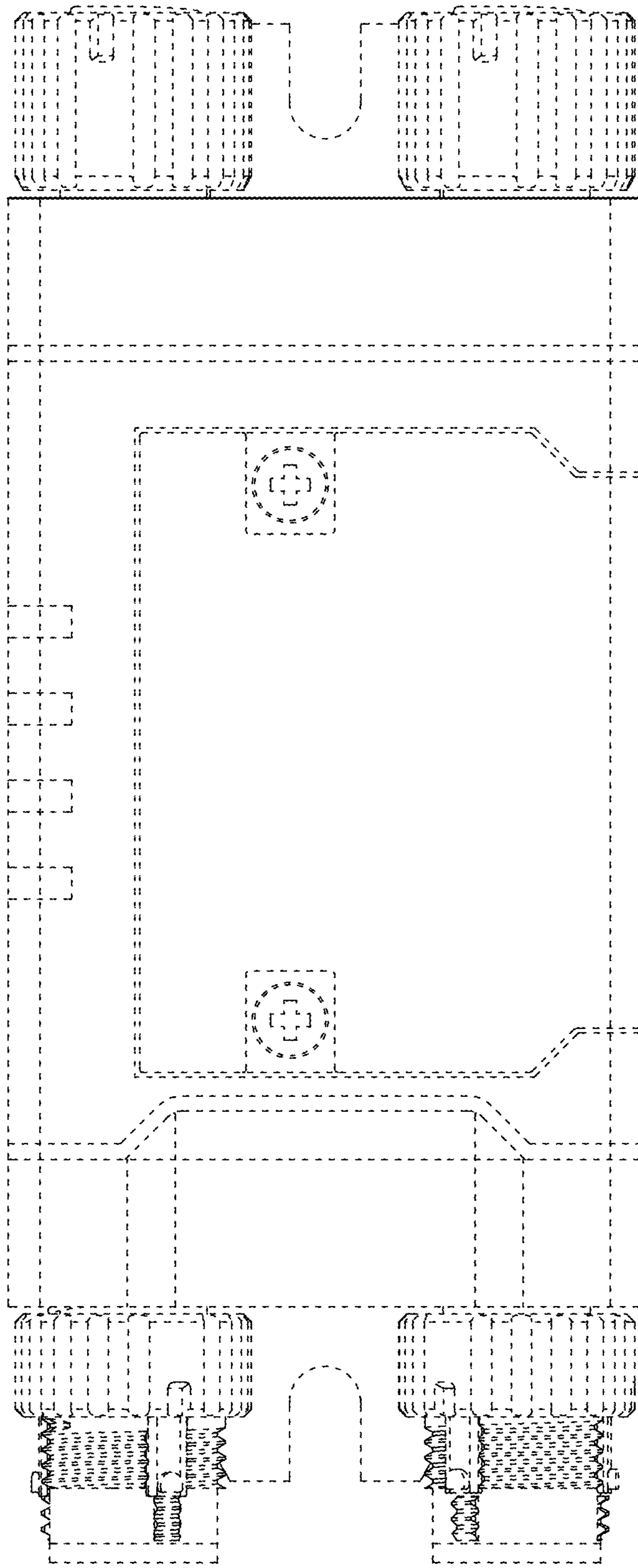


Fig. 3

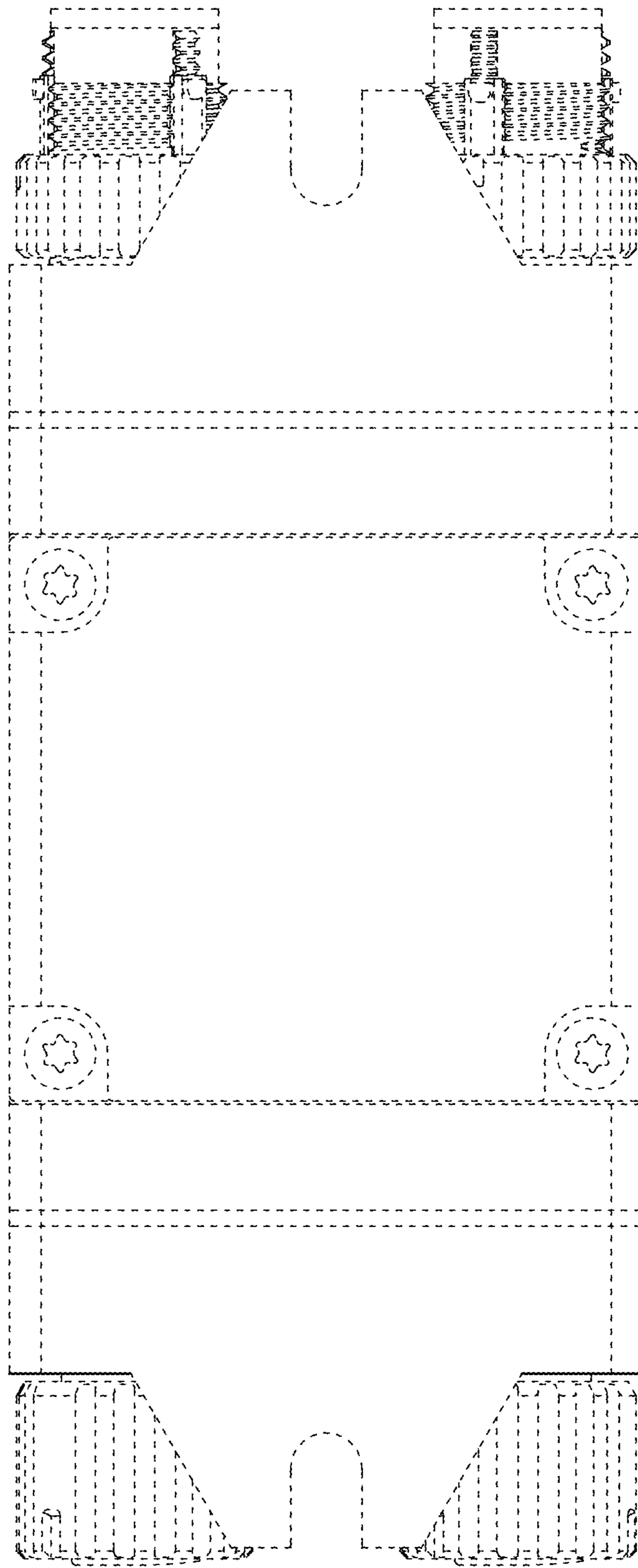


Fig. 4

Fig. 6

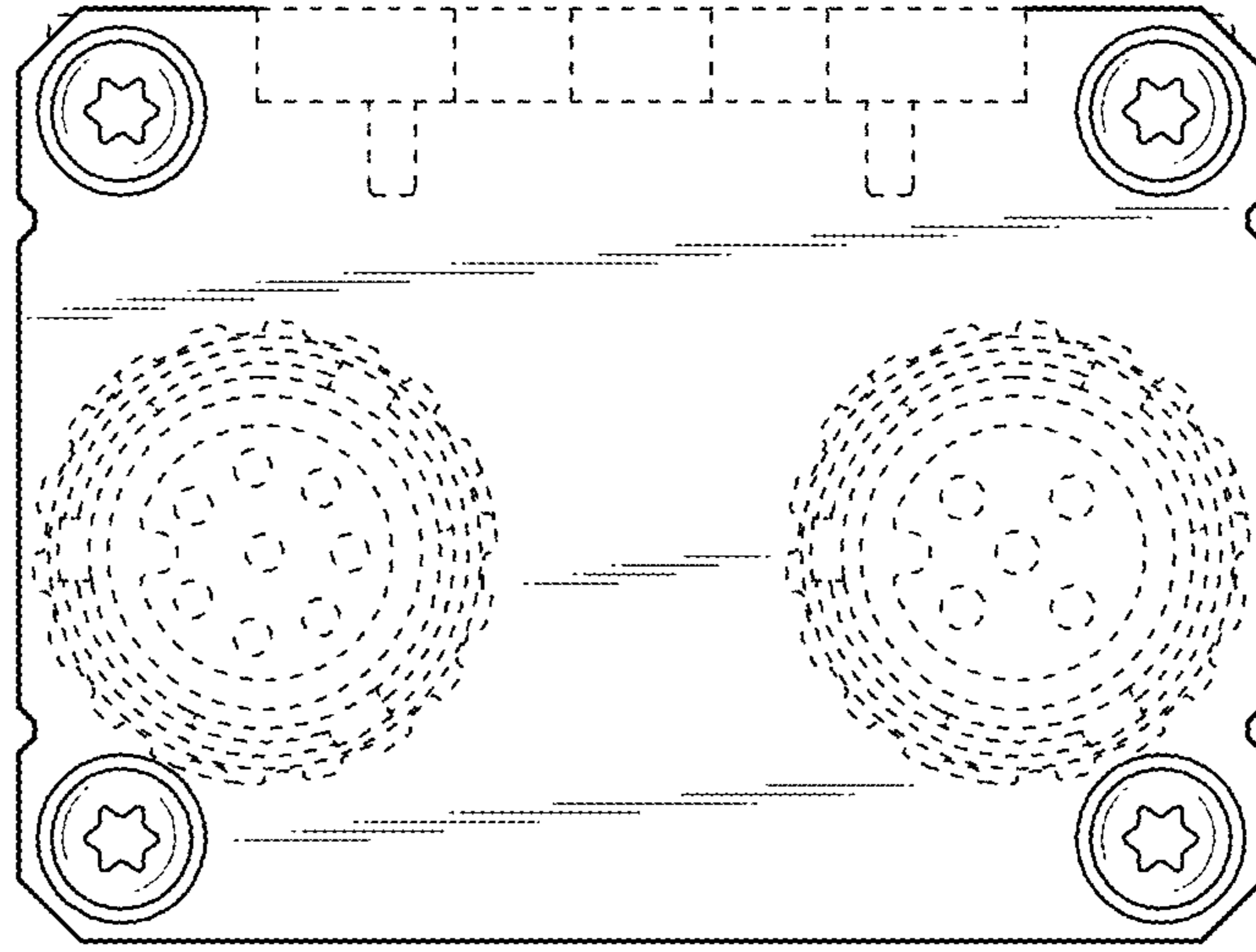
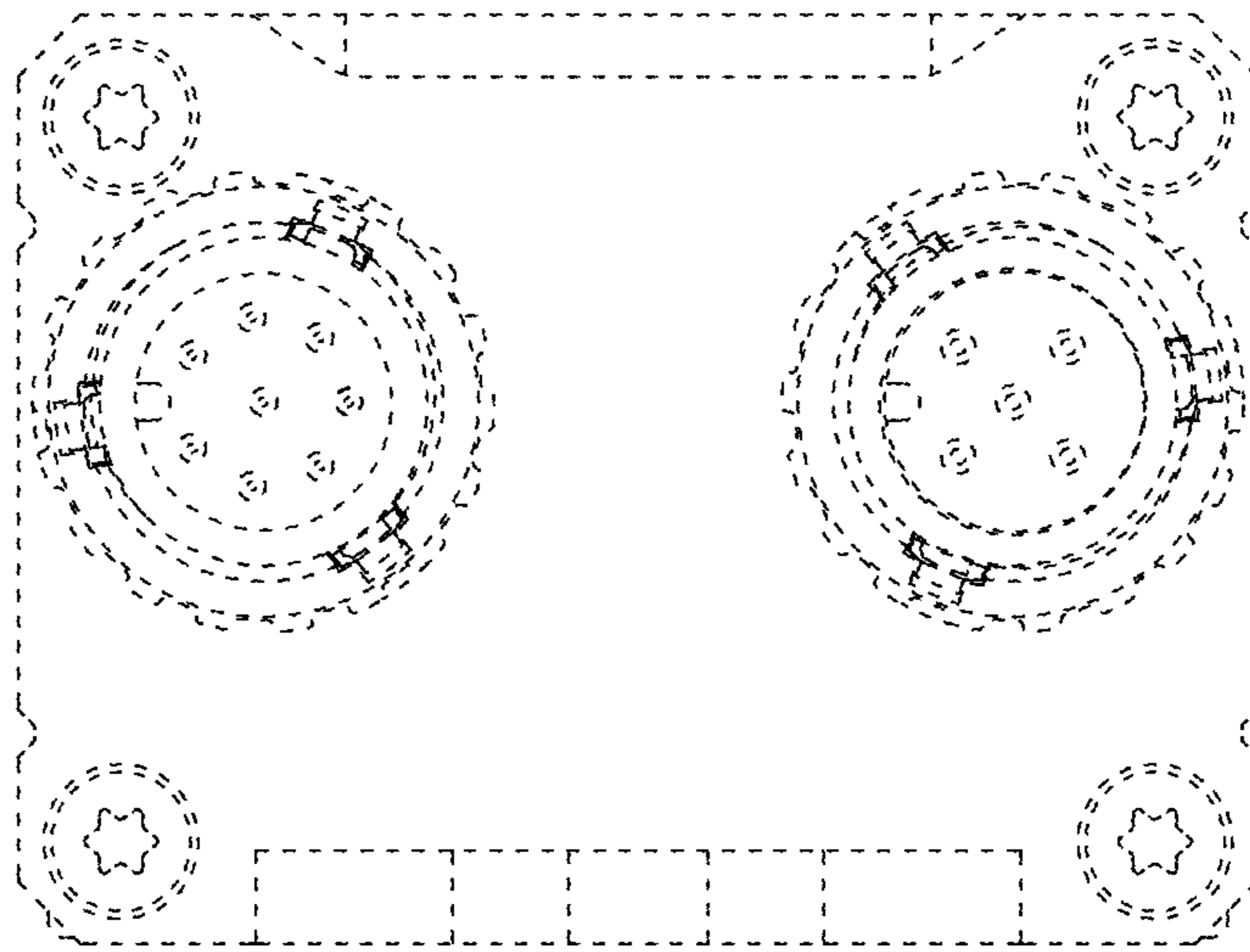


Fig. 5



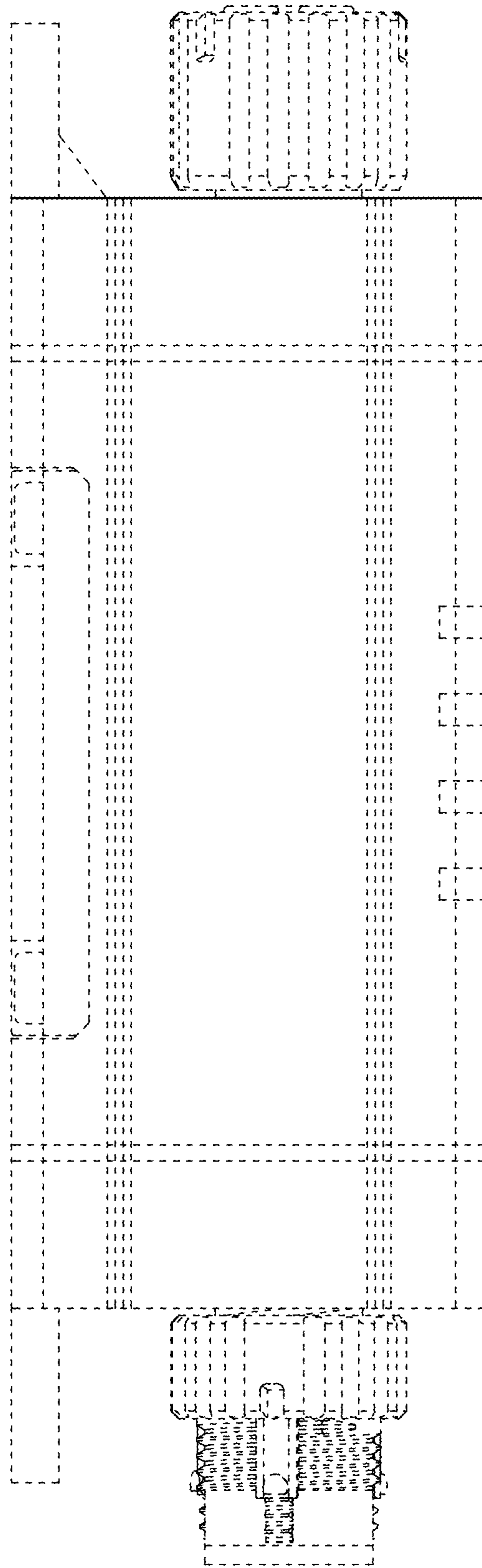


Fig. 7

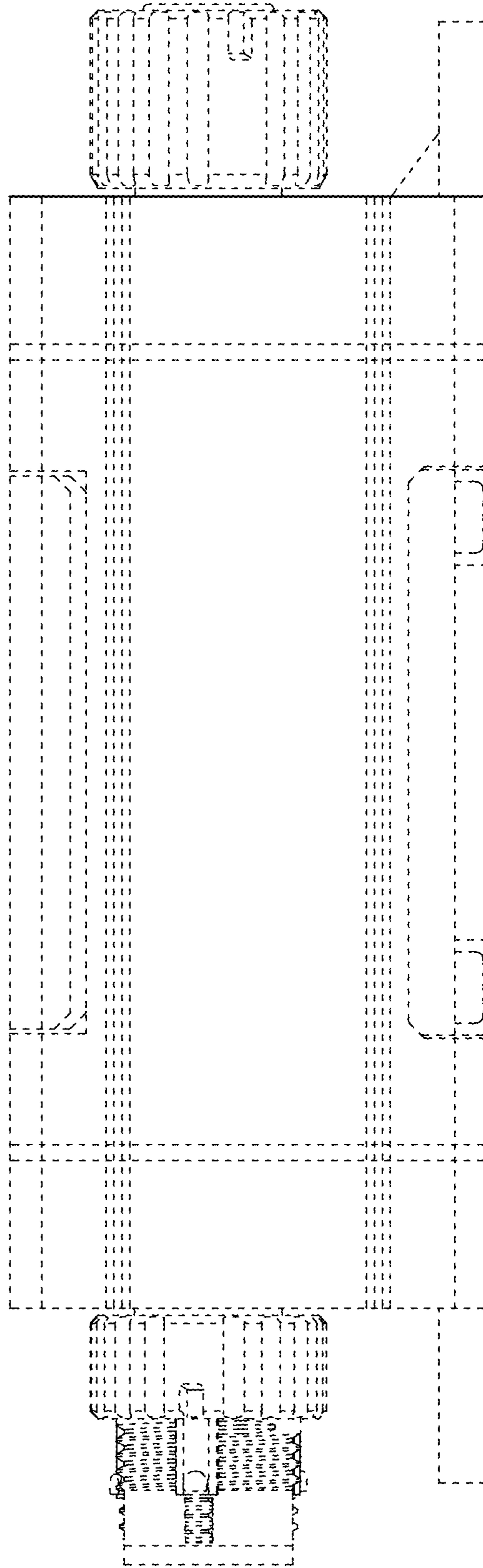


Fig. 8