



US00D921589S

(12) **United States Design Patent** (10) **Patent No.:** **US D921,589 S**
Blankinship et al. (45) **Date of Patent:** **** Jun. 8, 2021**

(54) **ELECTRICAL CONNECTOR**

(71) Applicant: **J.S.T. CORPORATION**, Farmington Hills, MI (US)
(72) Inventors: **Eric Blankinship**, Lathrup Village, MI (US); **Gwendolyn Upson**, Ypsilanti, MI (US)
(73) Assignee: **J.S.T. CORPORATION**, Farmington Hills, MI (US)

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

(21) Appl. No.: **29/730,420**

(22) Filed: **Apr. 3, 2020**

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

(52) **U.S. Cl.**
USPC **D13/133**

(58) **Field of Classification Search**
USPC D13/120, 121, 133, 146, 147, 153, 199, D13/154, 156, 184; D14/432, 433, 434, D14/435.1, 438

CPC .. H01R 13/506; H01R 13/516; H01R 13/518; H01R 13/58; H01R 13/627; H01R 13/6315; H01R 13/00; H01R 13/24; H01R 13/26; H01R 13/28; H01R 13/508; H01R 13/523; H01R 13/585; H01R 13/6271; H01R 13/6275; H01R 13/635; H01R 13/639; H01R 13/64; H01R 13/642; H01R 13/6453; H01R 13/6474; H01R 13/6581; H01R 13/6582; H01R 13/6586; H01R 13/6587; H01R 13/6588; H01R 13/659; H01R 13/6591; H01R 13/6594; H01R 13/6595; H01R 13/6597; H01R 13/66; H01R 13/6658; H01R 24/00; H01R 24/60; H01R 24/62; H01R 24/64; H01R 12/51;

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

D252,682 S * 8/1979 Berglund D13/133
D323,142 S * 1/1992 Nagasaka D13/133
(Continued)

FOREIGN PATENT DOCUMENTS

KR 300907585.0000 * 5/2017

OTHER PUBLICATIONS

“VLR-04V” first accessed 2020. Newark.com (<https://www.newark.com/jst-japan-solderless-terminals/vlr-04v/plug-socket-connector-receptacle/dp/38K9321?ost=vlr-04v>) (Year: 2020).*

(Continued)

Primary Examiner — Vy N Koenig
Assistant Examiner — Seth David Kumpf
(74) *Attorney, Agent, or Firm* — Kratz, Quintos & Hanson, LLP

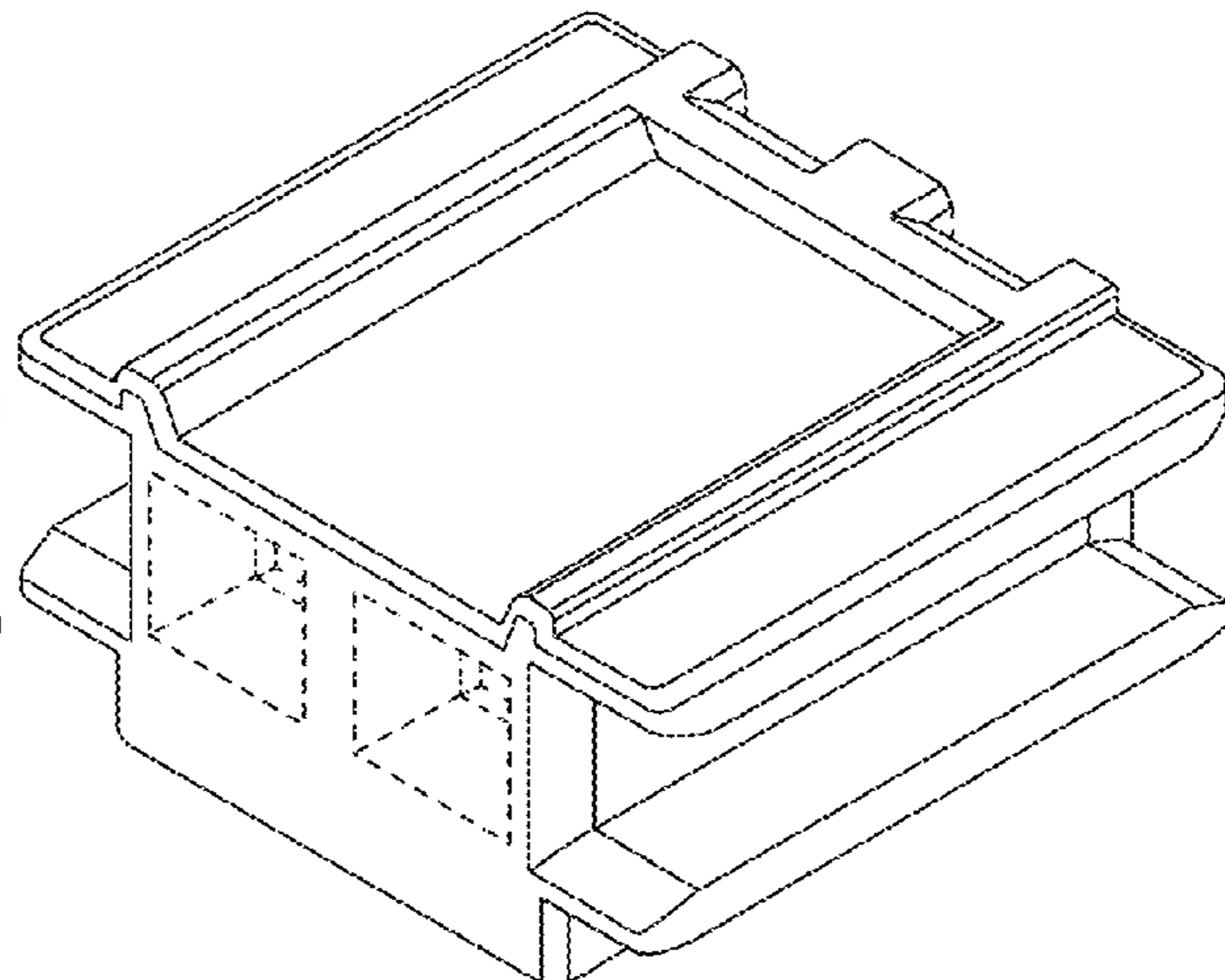
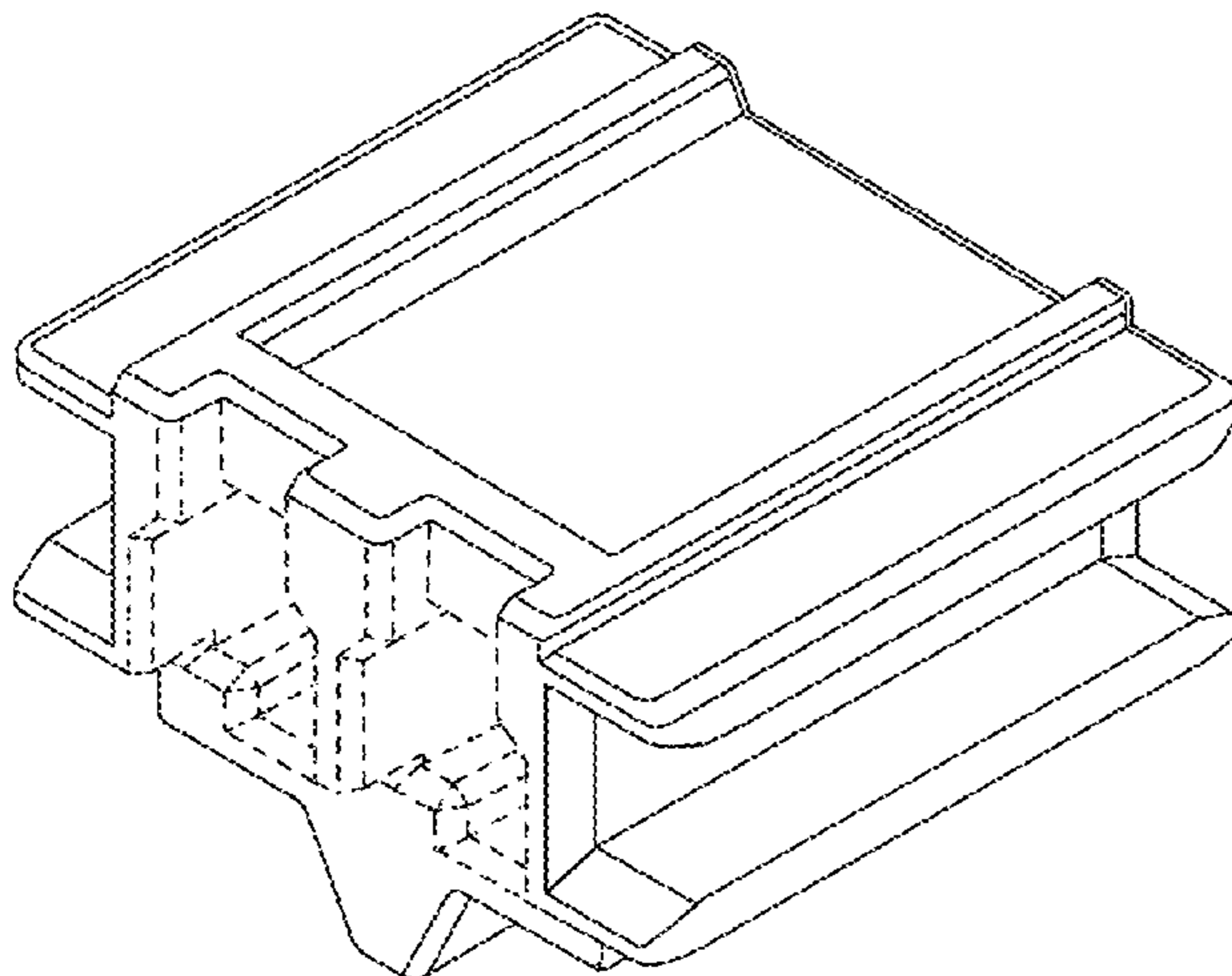
(57) **CLAIM**

The ornamental design for electrical connector, as shown and described.

DESCRIPTION

FIG. 1 is a top and front perspective view of an electrical connector according to the claimed design;
FIG. 2 is a top and back perspective view of the electrical connector according to the claimed design;
FIG. 3 is a front elevational view of the electrical connector according to the claimed design;
FIG. 4 is a back elevational view of the electrical connector according to the claimed design;
FIG. 5 is a left side elevational view of the electrical connector according to the claimed design;
FIG. 6 is a right side elevational view of the electrical connector according to the claimed design;
FIG. 7 is a top elevational view of the electrical connector according to the claimed design; and,
FIG. 8 is a bottom elevational view of the electrical connector according to the claimed design.

1 Claim, 4 Drawing Sheets



(58) **Field of Classification Search**

CPC H01R 12/52; H01R 12/55; H01R 12/57;
H01R 12/58; H01R 12/592; H01R 12/61;
H01R 12/616; H01R 12/63; H01R 12/70;
H01R 12/7005; H01R 12/7076; H01R
12/71; H01R 12/714; H01R 12/716;
H01R 12/718; H01R 12/72; H01R 12/73;
H01R 12/737; H01R 12/777; H01R
12/778; H01R 12/79

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D323,143	S	*	1/1992	Ohkura	.....	D13/133
D323,316	S	*	1/1992	Ohkura	.....	D13/133
D324,852	S	*	3/1992	Takenouchi	.....	D13/133
D325,024	S	*	3/1992	Suzuki	.....	D13/133
D326,640	S	*	6/1992	Ohkura	.....	D13/133
D327,870	S	*	7/1992	Ohkura	.....	D13/133
D329,222	S	*	9/1992	Nagasaka	.....	D13/133
D831,574	S	*	10/2018	Ramanna	.....	D13/146

OTHER PUBLICATIONS

“JST PH 2.0mm Pitch 2 pin Female Socket Connector Wire Harness” first accessed 2020. GlobalSources.com (<https://www.globalsources.com/Wire-harness/JST-PH-2-0mm-2-pin-Female-Socket-Connector-Wire-1170550201p.htm#1170550201>) (Year: 2020).*

* cited by examiner

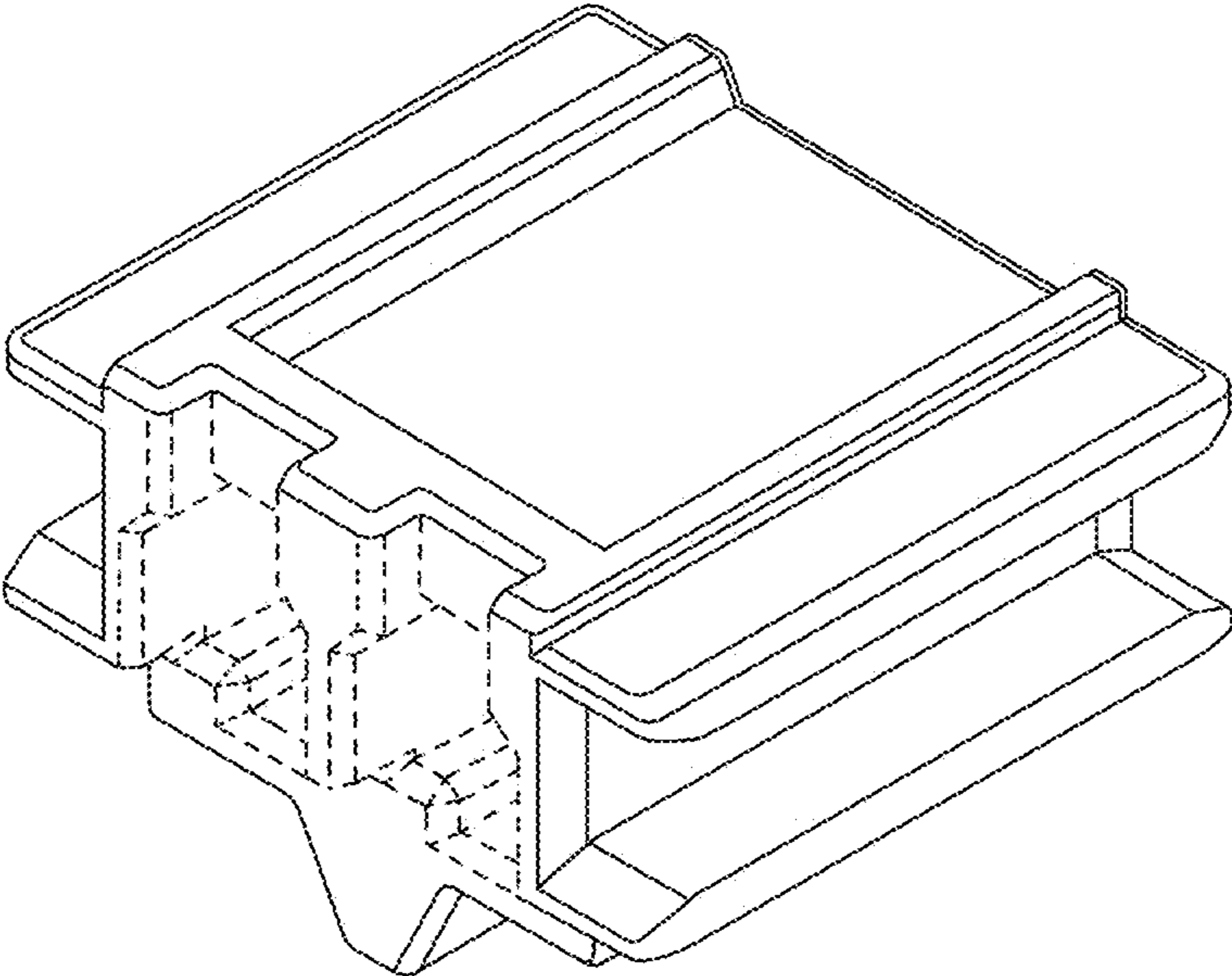


Fig. 1

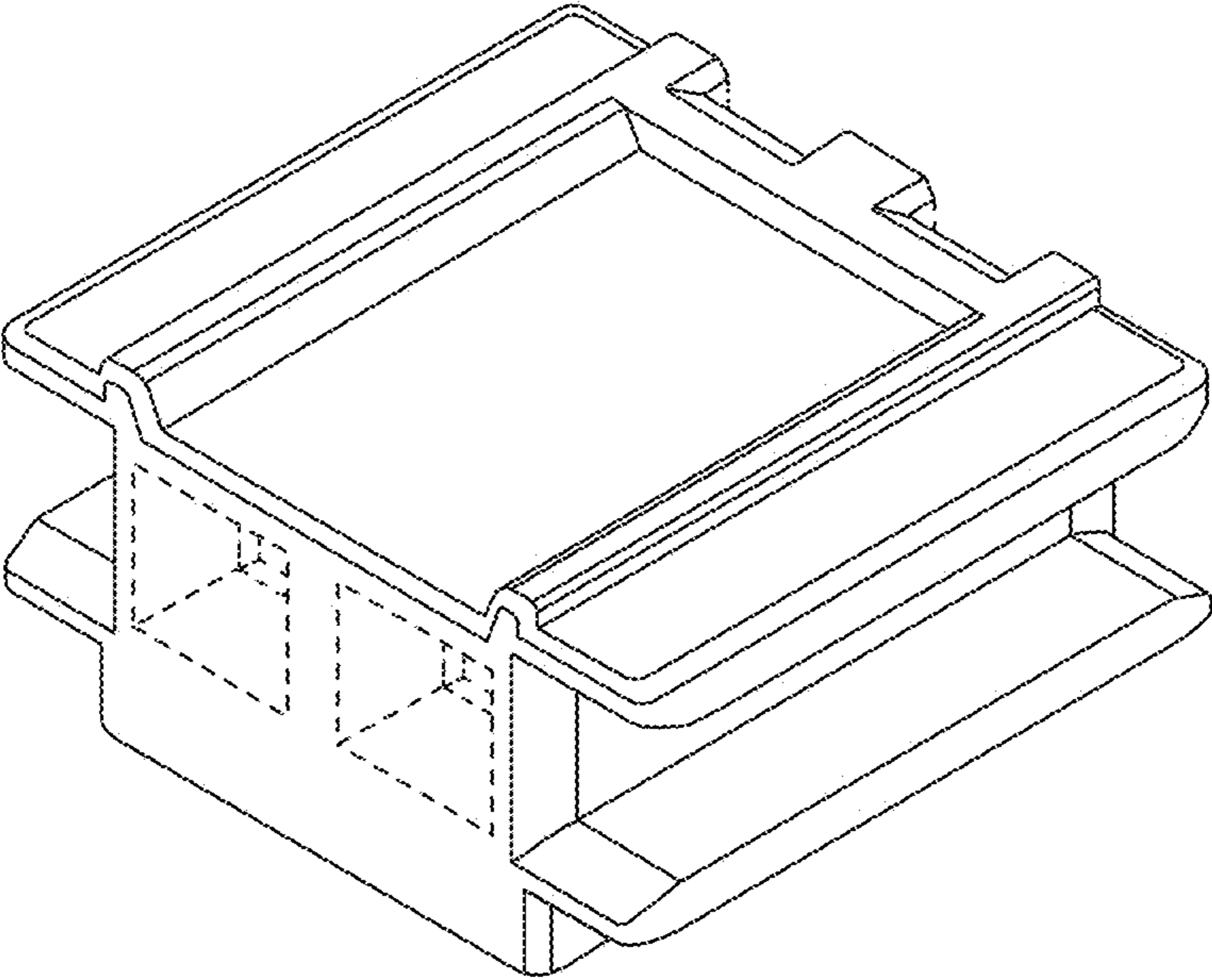


Fig. 2

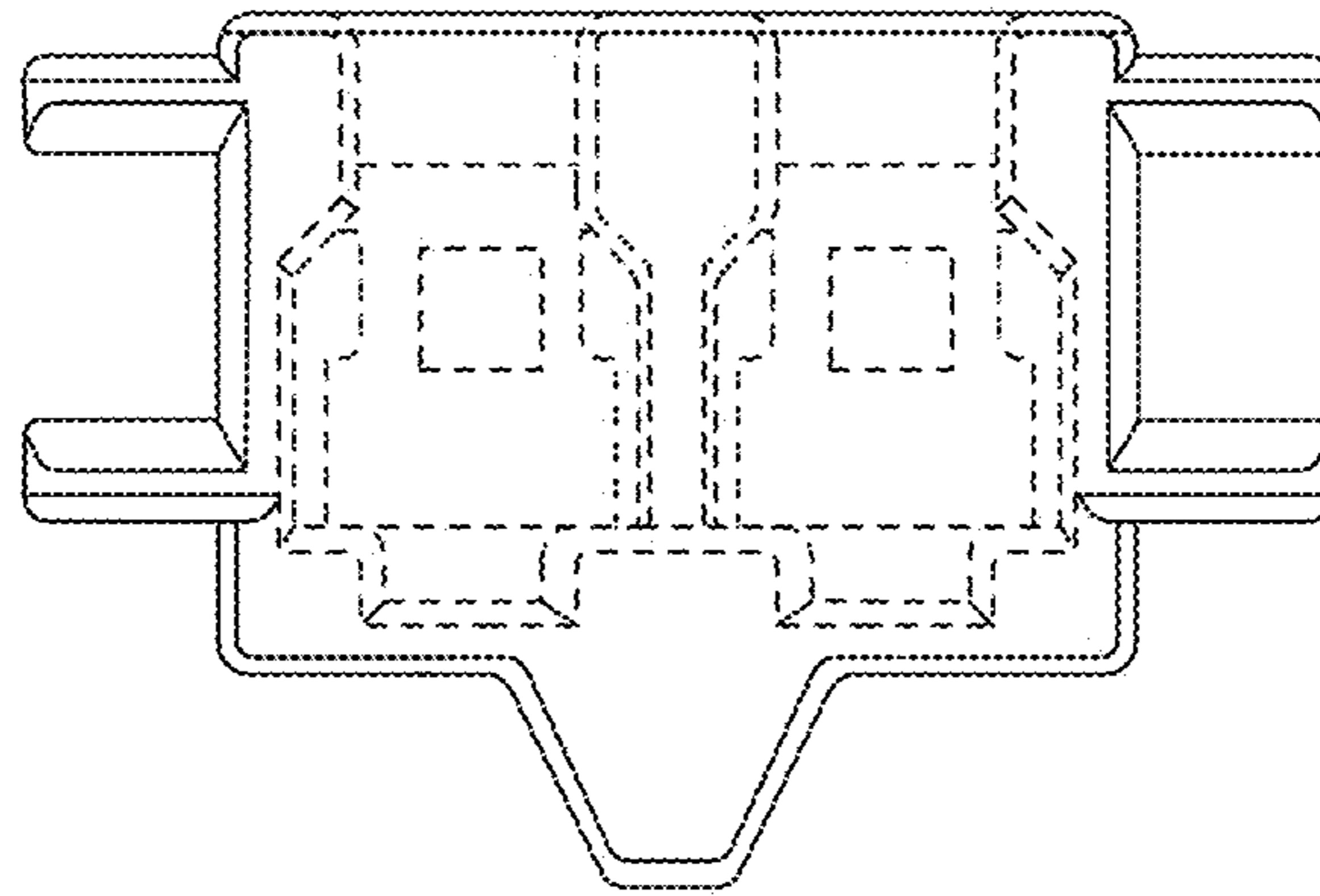


Fig. 3

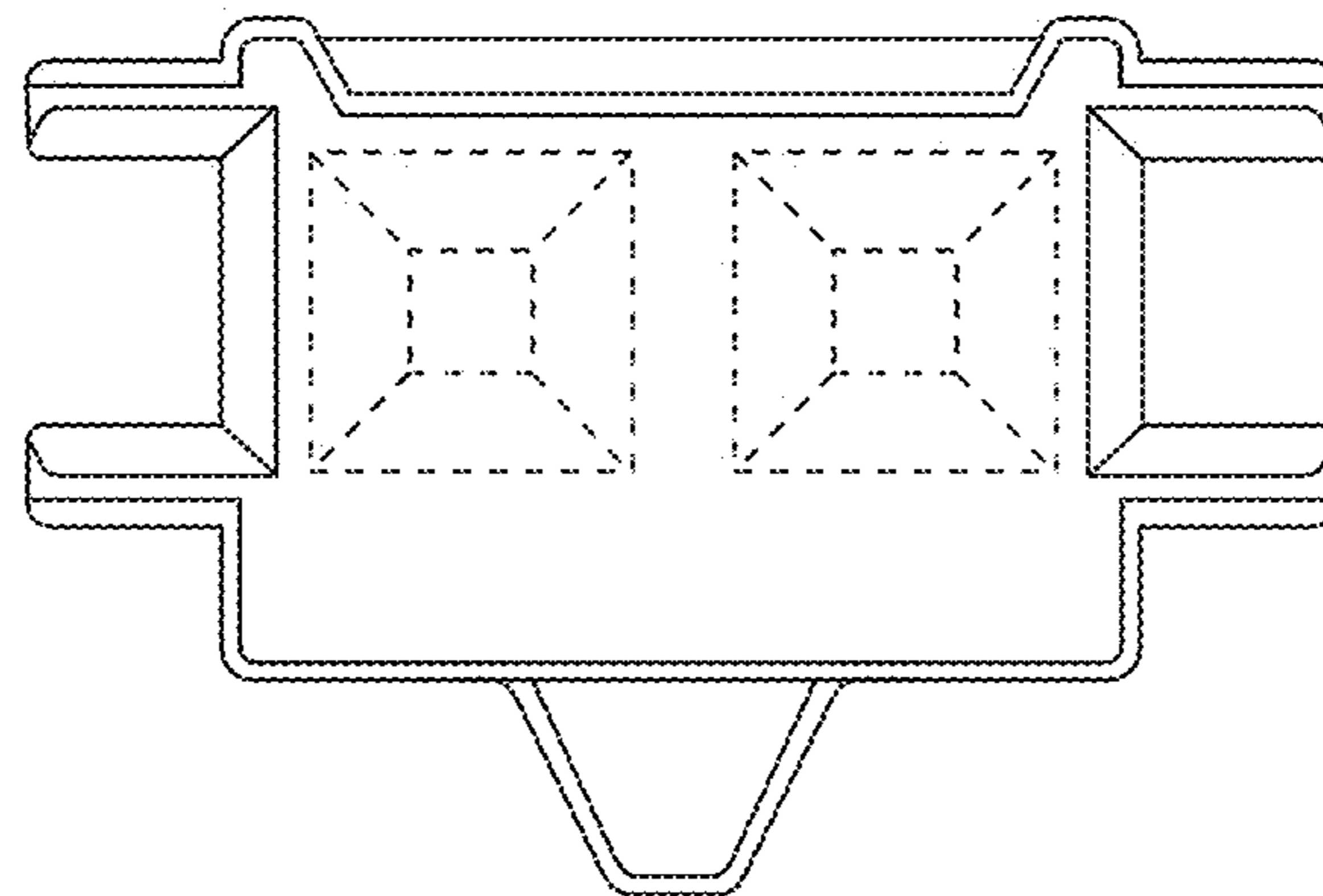


Fig. 4

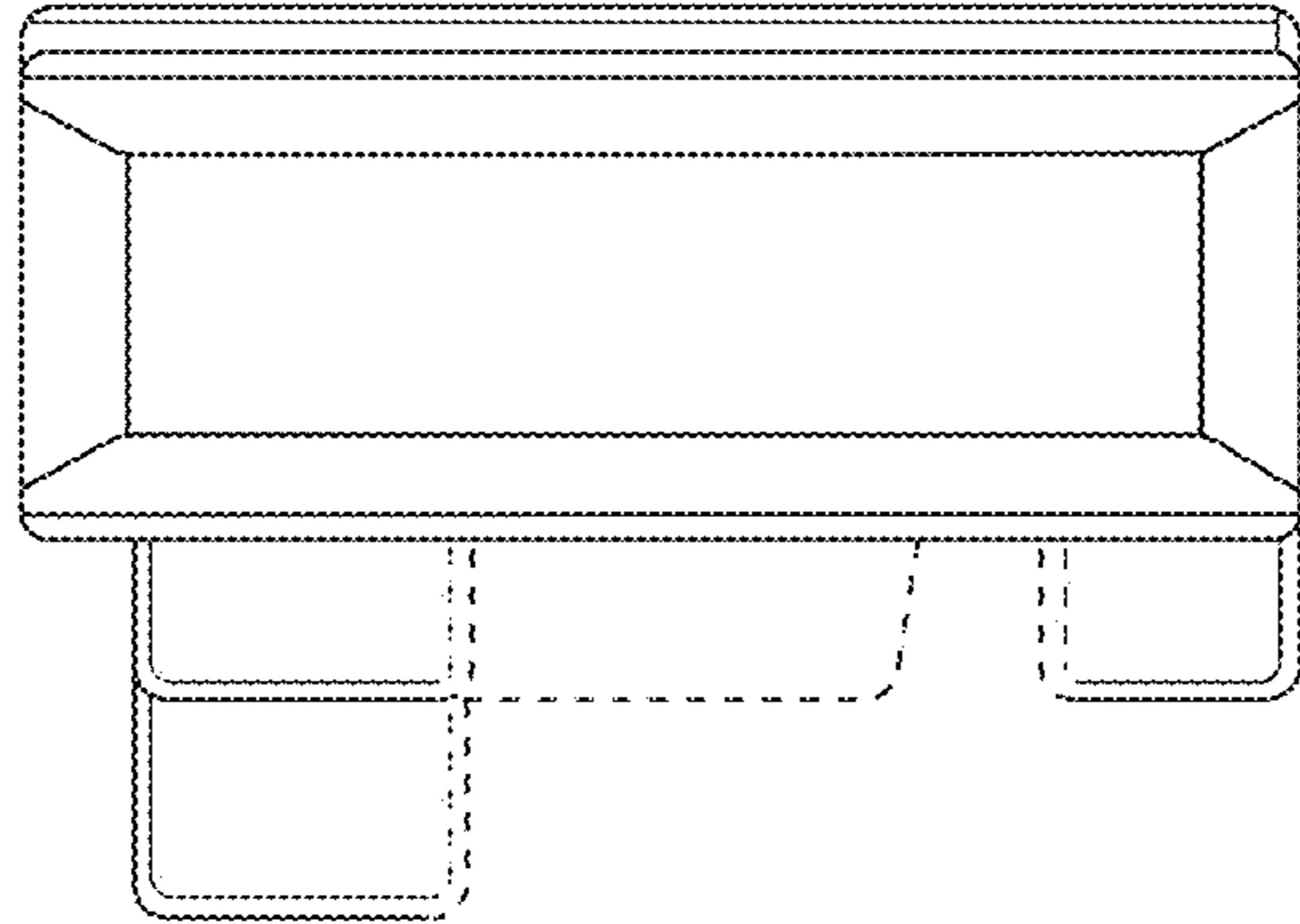


Fig. 5

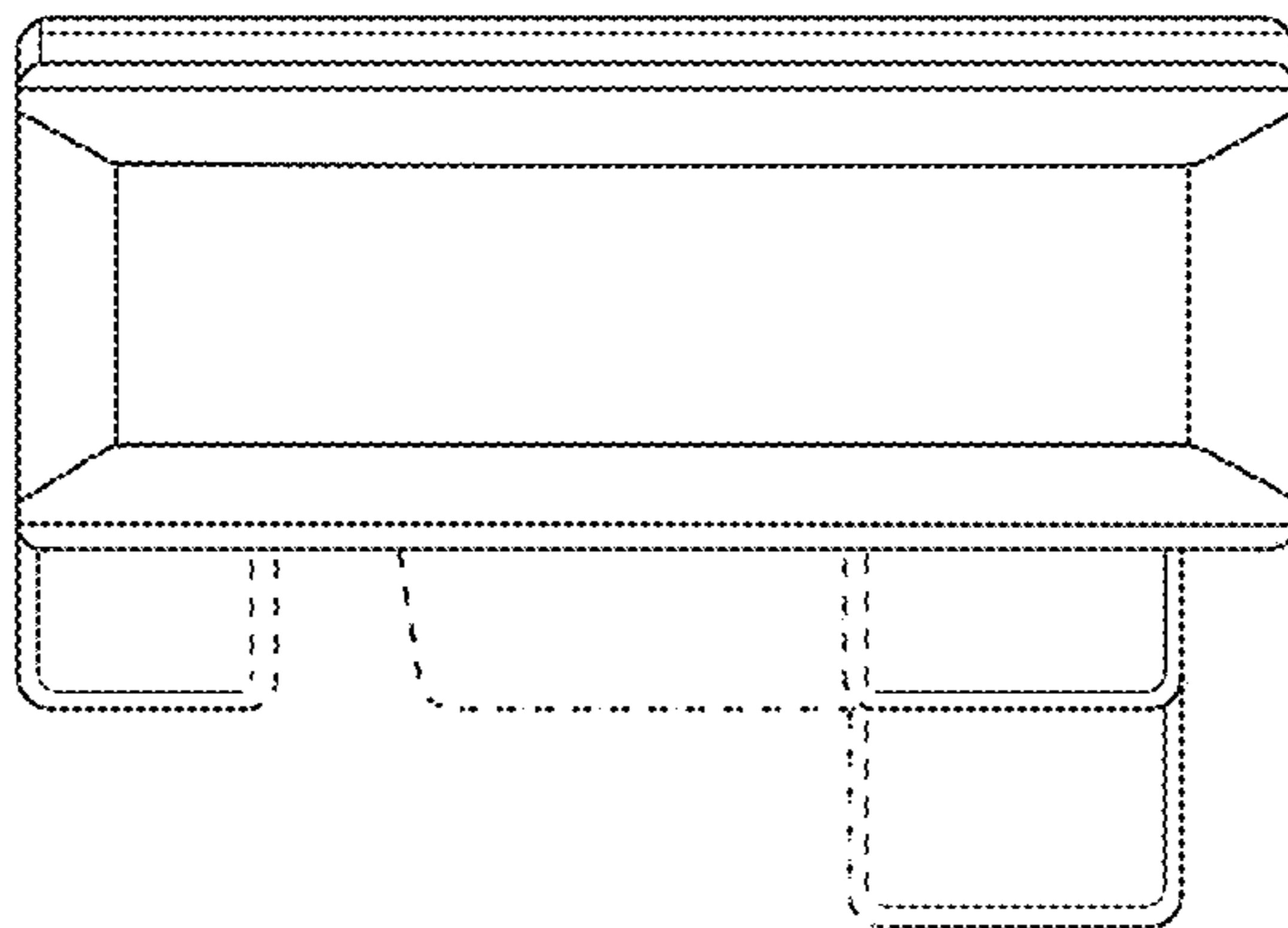


Fig. 6

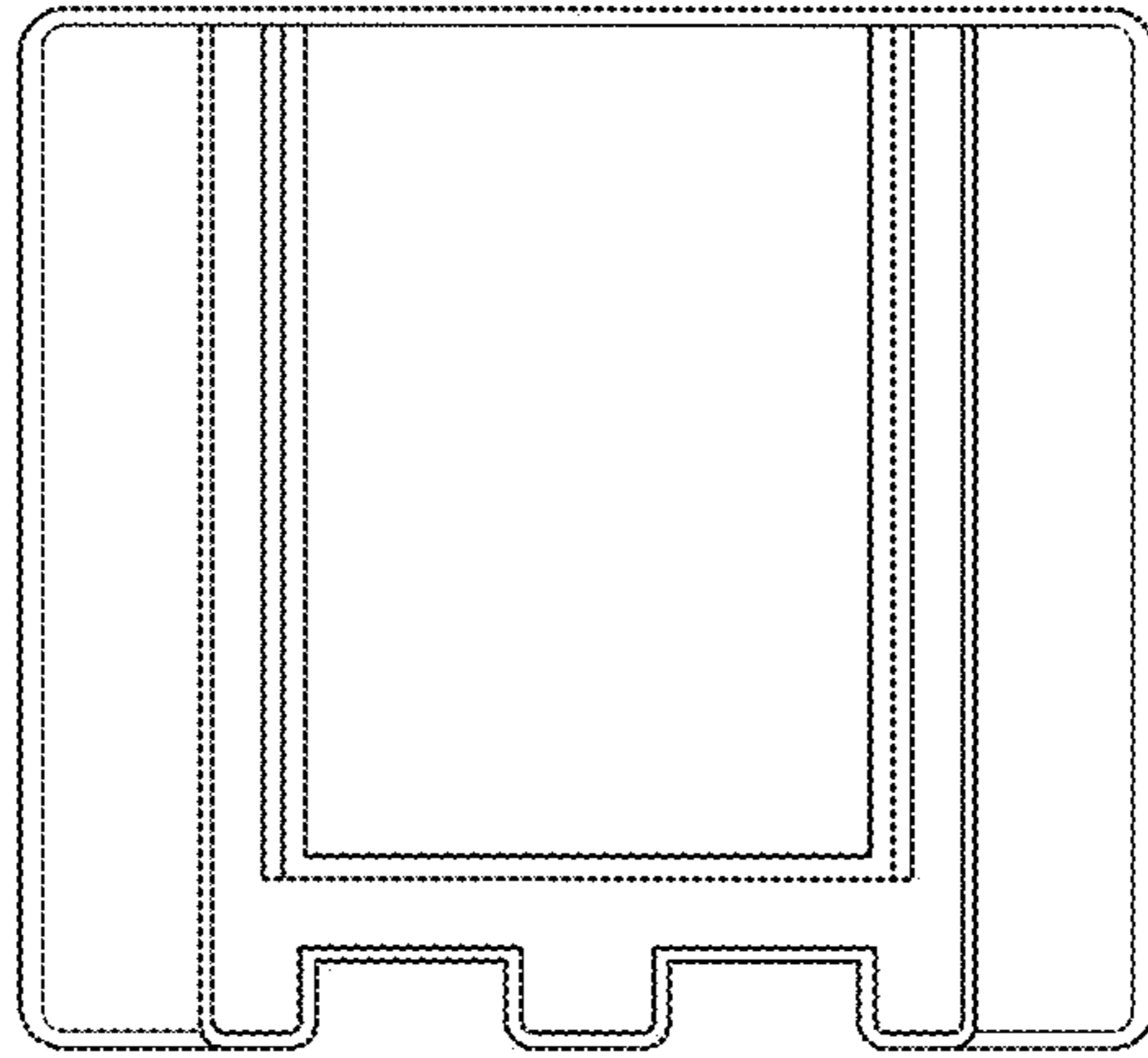


Fig. 7

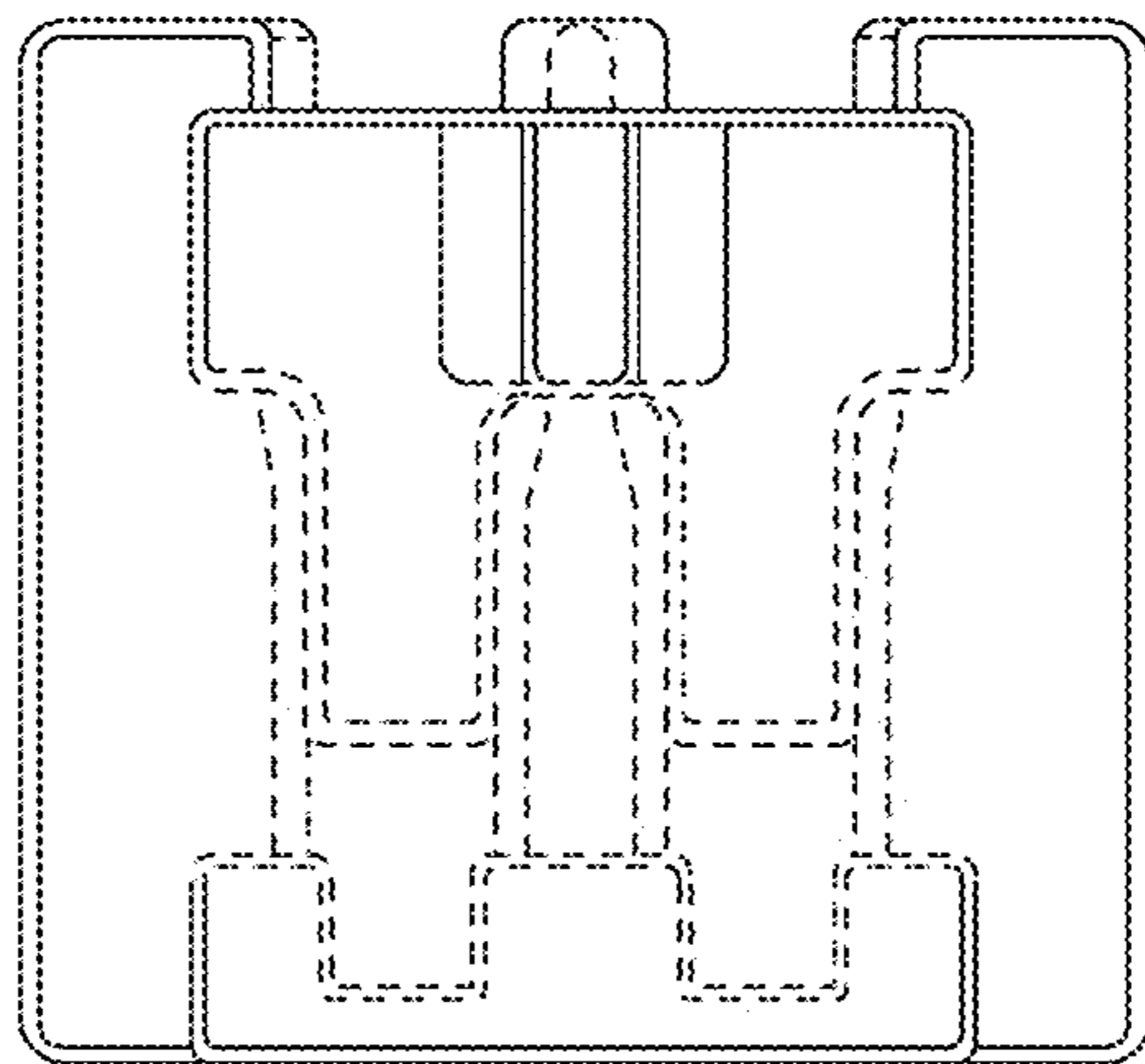


Fig. 8