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

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(54) **CONNECTOR**

- (71) Applicant: **Molex, LLC**, Lisle, IL (US)
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- (73) Assignee: **Molex, LLC**, Lisle, IL (US)
- (**) Term: **15 Years**
- (21) Appl. No.: **29/713,312**
- (22) Filed: **Nov. 15, 2019**
- (51) **LOC (13) Cl.** **13-03**
- (52) **U.S. Cl.**
USPC **D13/147**
- (58) **Field of Classification Search**
USPC D13/118, 120, 173, 103, 107, 108, 110,
D13/112, 123, 133, 137.1, 145-147,
D13/149-156, 158, 177, 184, 199, 242;
D14/240, 242, 256, 432, 433, 434, 435.1,
D14/438, 480.1-480.7, 484
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D320,383 S	10/1991	Oka	
5,628,648 A	5/1997	Higgins, Jr. et al.	
D434,385 S	11/2000	Ko et al.	
D524,742 S	7/2006	Kumagai	
D524,751 S *	7/2006	Lee	D13/147
D538,230 S	3/2007	Kudo	
D564,452 S *	3/2008	Kudo	D13/147
D583,324 S	12/2008	Iijima et al.	
D652,387 S	1/2012	Ohkuma	

(Continued)

FOREIGN PATENT DOCUMENTS

TW	D188002 S	1/2018
TW	D196567 S	3/2019

OTHER PUBLICATIONS

Non Final Office Action received for U.S. Appl. No. 29/713,307, dated Dec. 8, 2020, 8 Pages.

(Continued)

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Assistant Examiner — Landon T Cassell

(57) **CLAIM**

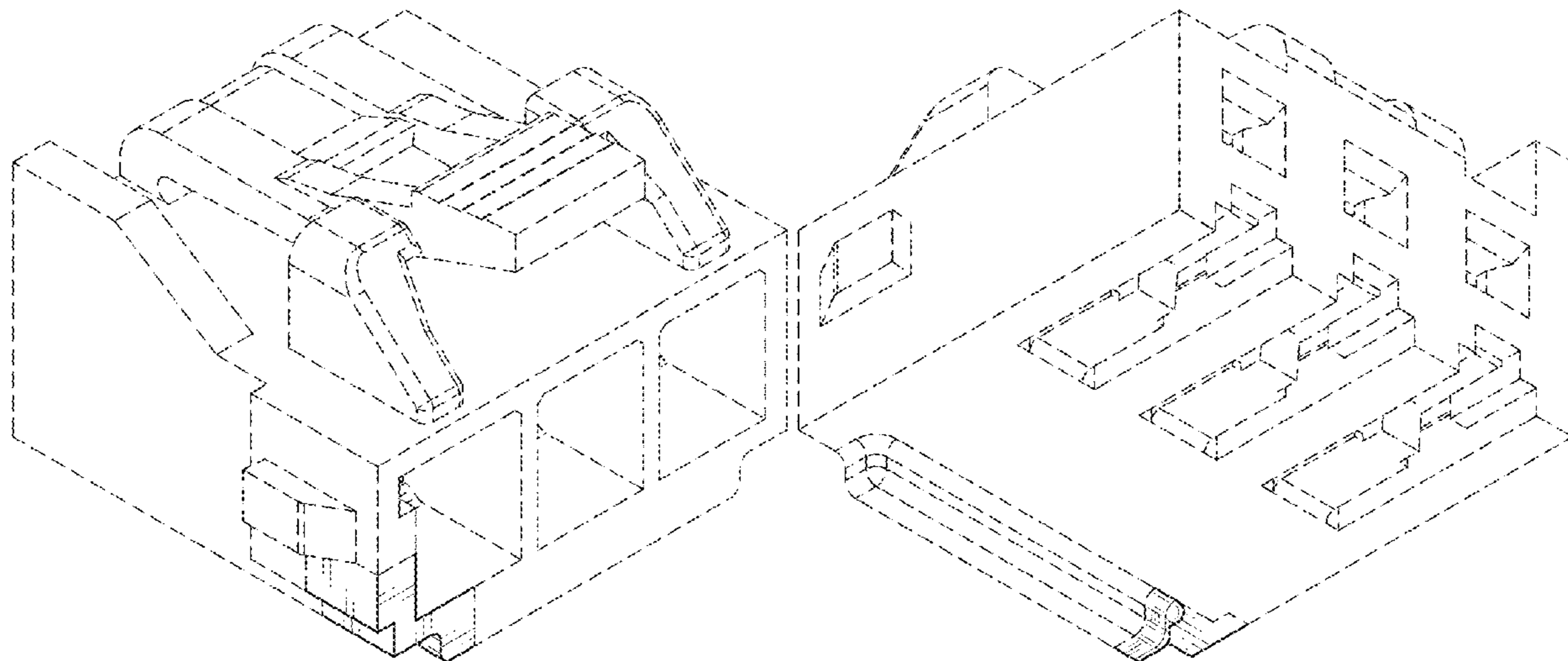
The ornamental design for a connector, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a connector showing our new design;
 FIG. 2 is a rear perspective view thereof;
 FIG. 3 is a front view thereof;
 FIG. 4 is a rear view thereof;
 FIG. 5 is left side view thereof;
 FIG. 6 is a right side view thereof;
 FIG. 7 is a top view thereof;
 FIG. 8 is a bottom view thereof;
 FIG. 9 is a front perspective view of an alternate embodiment of the connector showing our new design which is a mirror image of the connector of FIGS. 1-8;
 FIG. 10 is a rear perspective view thereof;
 FIG. 11 is a front view thereof;
 FIG. 12 is a rear view thereof;
 FIG. 13 is left side view thereof;
 FIG. 14 is a right side view thereof;
 FIG. 15 is a top view thereof; and,
 FIG. 16 is a bottom view thereof.

The broken lines immediately adjacent to the shaded areas depict the bounds of the claimed design and form no part thereof. The broken lines depicting the remainder of the connector show features that form no part of the claimed design.

1 Claim, 8 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D708,583 S 7/2014 Asano
 D733,652 S 7/2015 Wenji et al.
 D747,689 S * 1/2016 Endo D13/147
 D748,580 S * 2/2016 Endo D13/146
 D748,588 S 2/2016 Endo et al.
 D751,990 S * 3/2016 Ikeda D13/147
 9,620,879 B2 4/2017 Li
 D791,080 S 7/2017 Li et al.
 D791,083 S 7/2017 Li et al.
 D792,853 S 7/2017 Li et al.
 D795,199 S 8/2017 Ikeda et al.
 D802,538 S 11/2017 Li et al.
 D831,581 S 10/2018 Motoshige et al.
 10,263,350 B2 4/2019 Huo et al.
 D847,755 S 5/2019 Hamachi
 D847,756 S * 5/2019 Endo D13/147
 D852,753 S * 7/2019 Endo D13/147
 D854,503 S 7/2019 Gieski et al.
 D870,673 S 12/2019 Obata et al.
 D877,703 S * 3/2020 Holub D13/147
 D884,638 S * 5/2020 Kim D13/133
 D896,757 S 9/2020 Somanathapura Ramanna et al.
 D897,963 S 10/2020 Wu

D899,370 S * 10/2020 Thyagaraj D13/133
 D900,030 S * 10/2020 Thyagaraj D13/133
 D900,745 S 11/2020 Thyagaraj et al.
 D900,755 S * 11/2020 Kurita D13/154
 D901,389 S 11/2020 Gonzalez et al.
 2011/0207357 A1 8/2011 Dick et al.
 2013/0008712 A1 * 1/2013 Kobayashi H02G 3/30
 174/72 A
 2013/0316560 A1 11/2013 Yoon et al.
 2014/0045381 A1 2/2014 Tsukamoto et al.
 2019/0118739 A1 4/2019 Takamatsu et al.
 2020/0136303 A1 4/2020 Ito et al.

OTHER PUBLICATIONS

Non Final Office Action received for U.S. Appl. No. 29/713,303, dated Dec. 8, 2020, 9 Pages.
 Non Final Office Action received for U.S. Appl. No. 29/713,323, dated Jan. 22, 2021, 10 Pages.
 Connectors, Date ranges: May 2, 2001-Jun. 17, 2019, [Online PDF of Foreign Prior Art references selected by Examiner], Site visited Jan. 6, 2021, Available from Internet URL: <https://www.orbit.com/export/UCZAH96B/pdf4/547df235-4de8-4e6b-9dc5-57b64c2a032a142130.pdf>, 24 Pages, (Year: 2021).

* cited by examiner

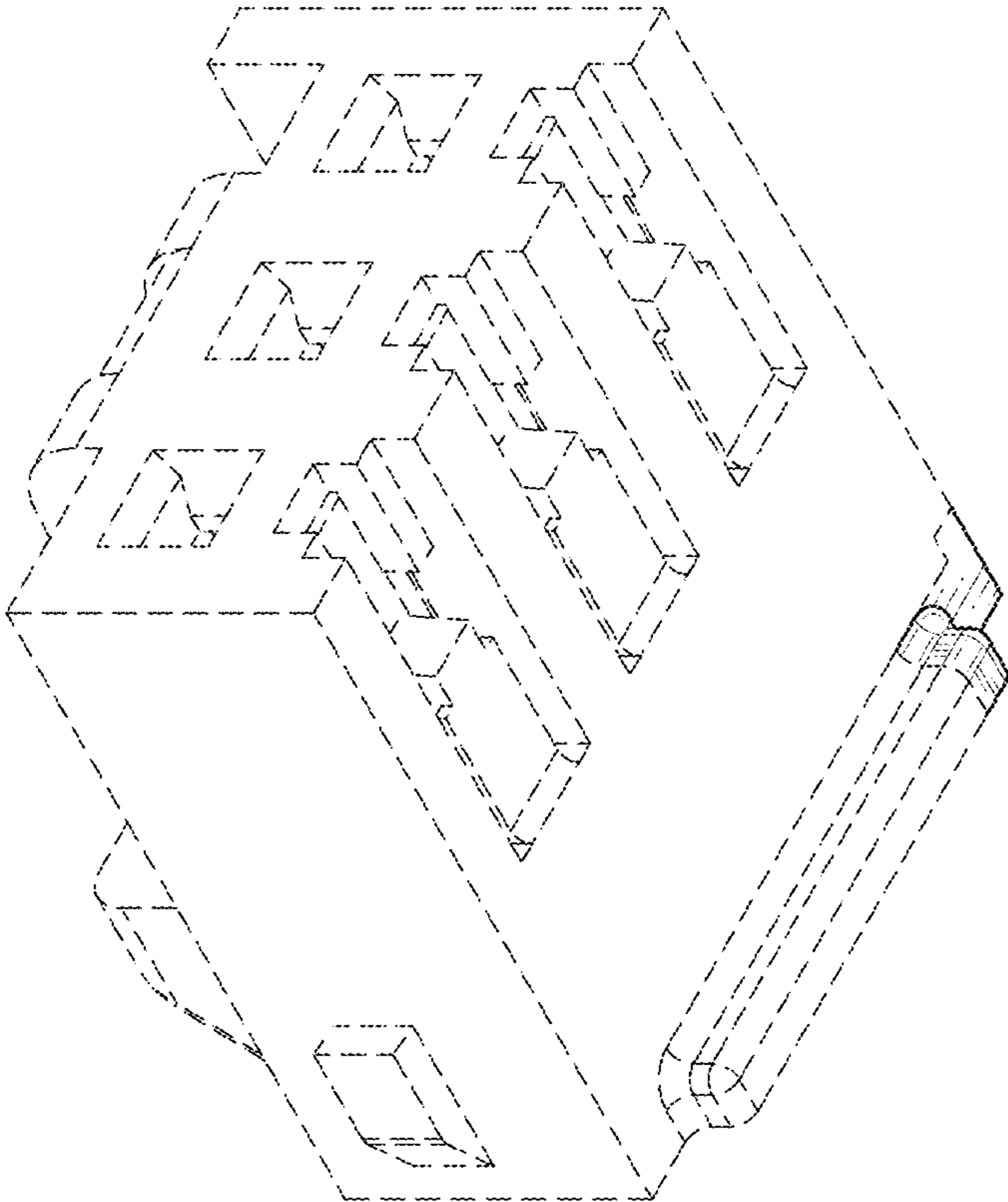


FIG. 1

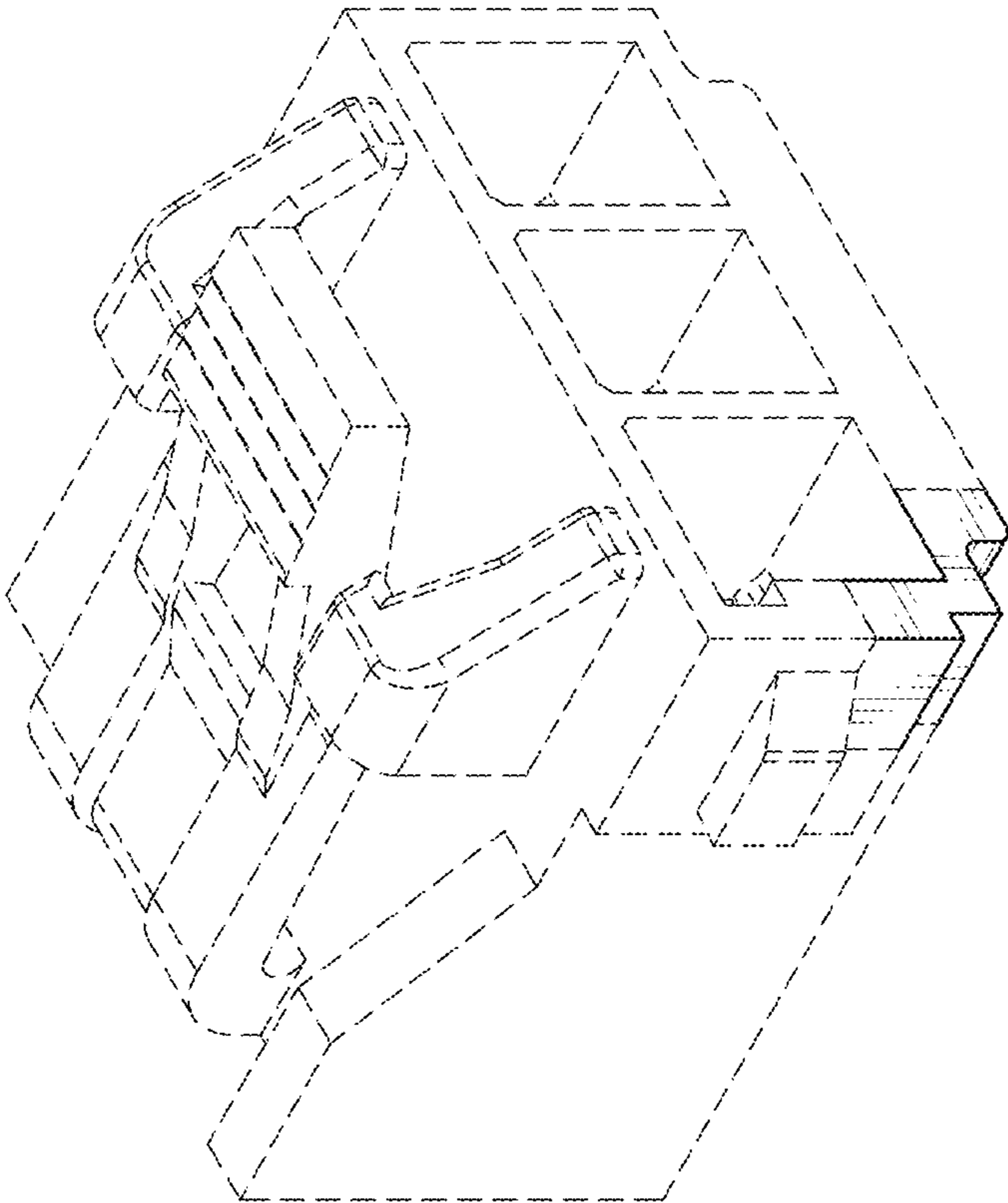


FIG. 2

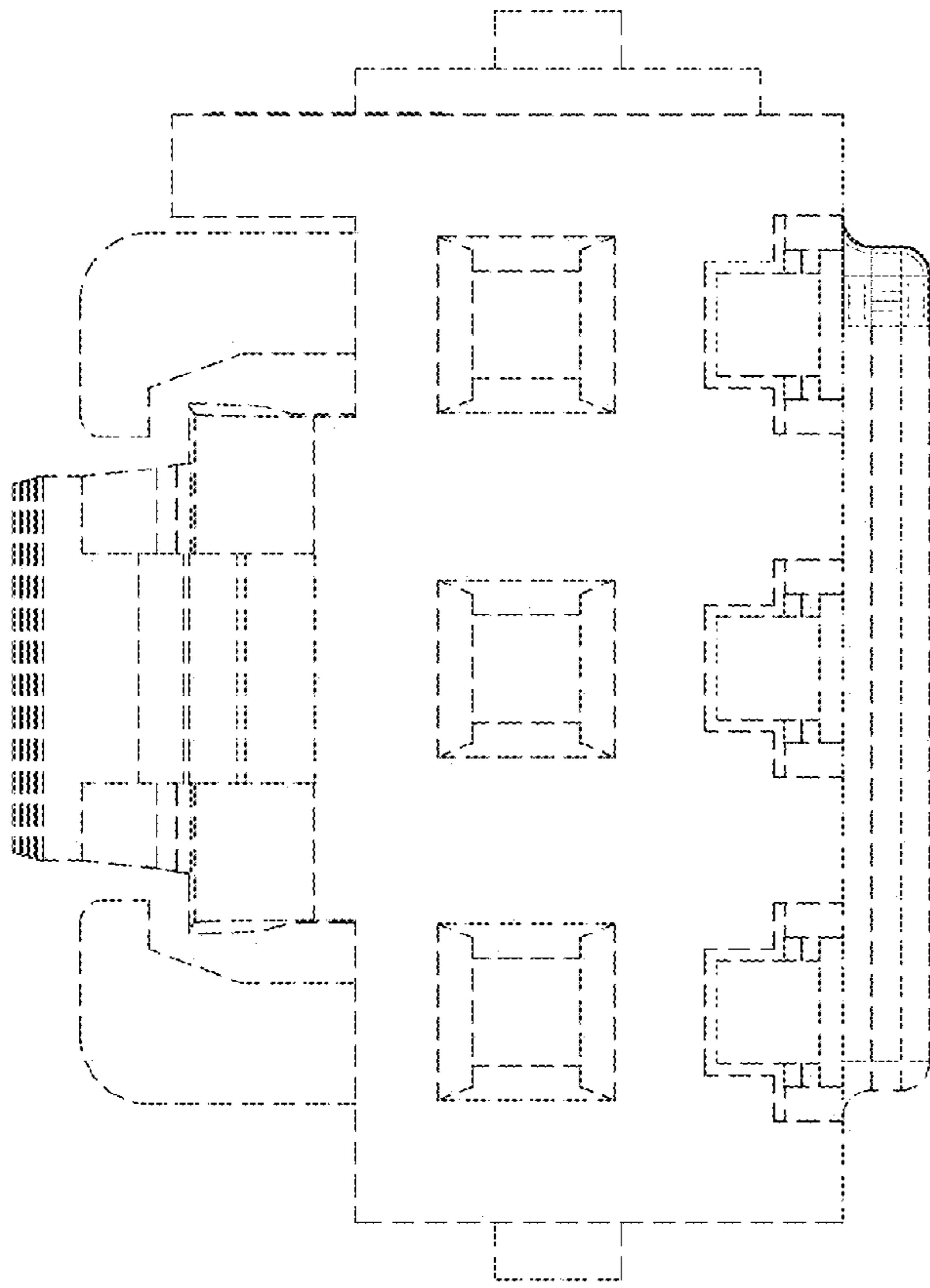


FIG. 4

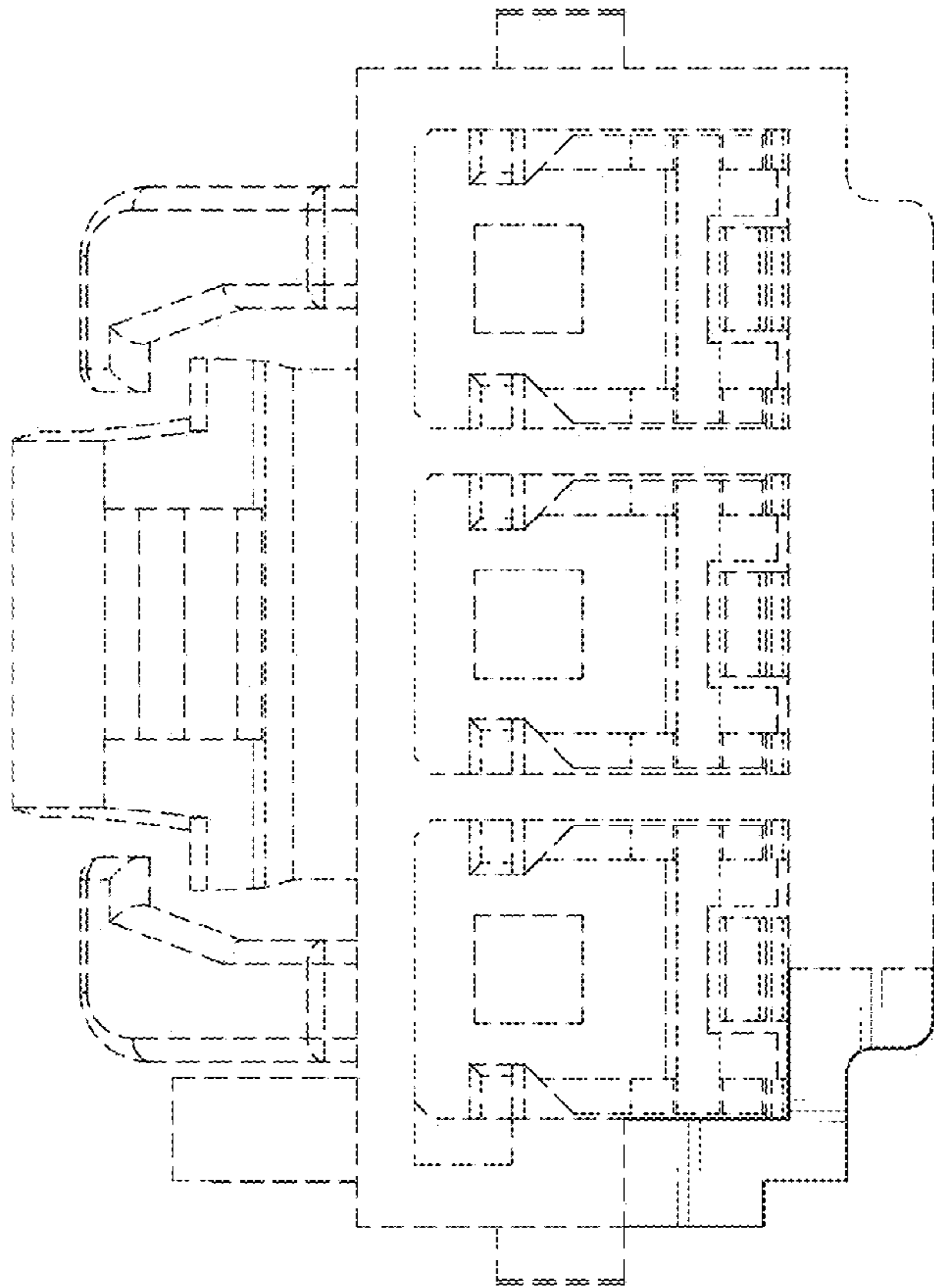


FIG. 3

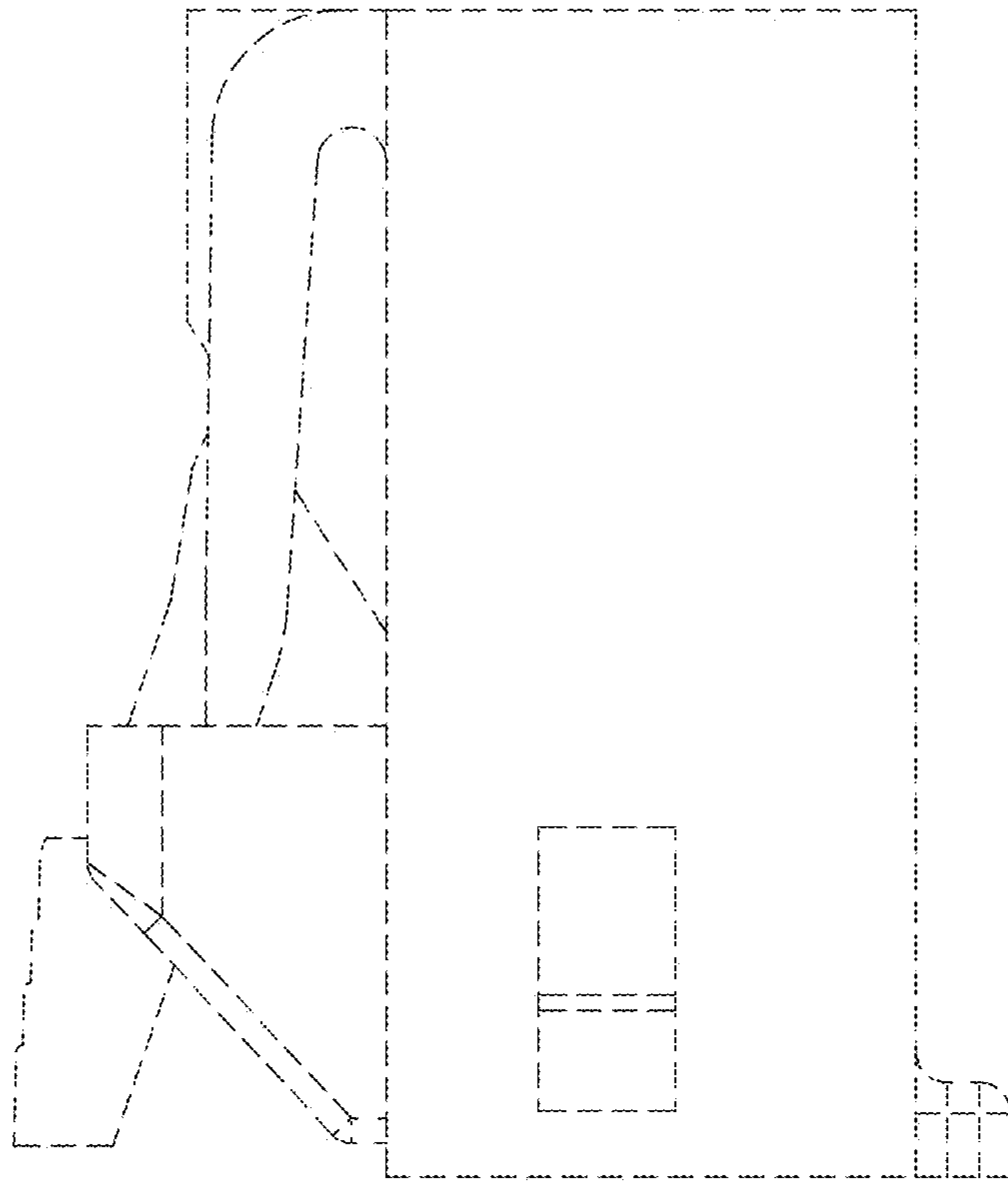


FIG. 6

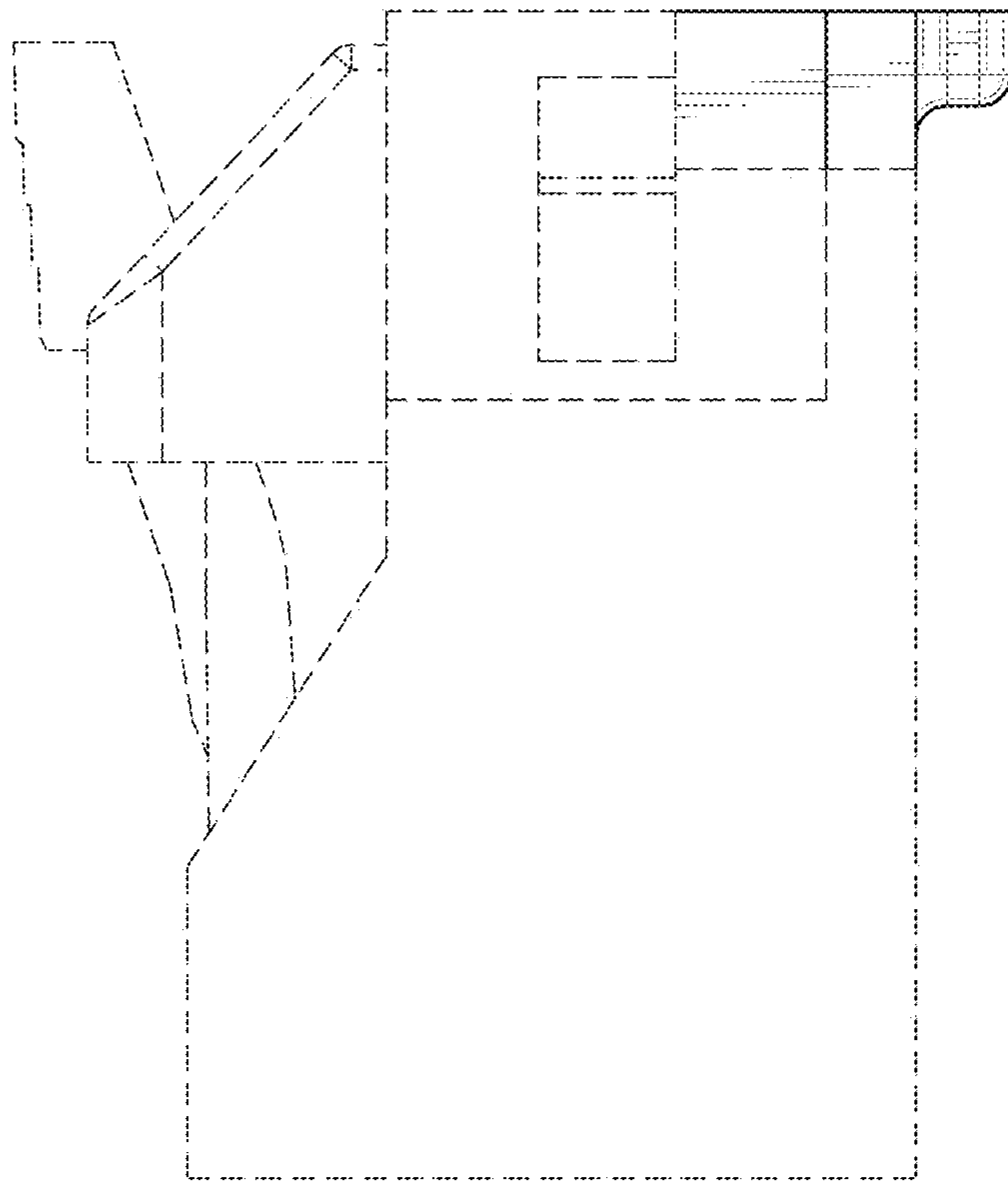


FIG. 5

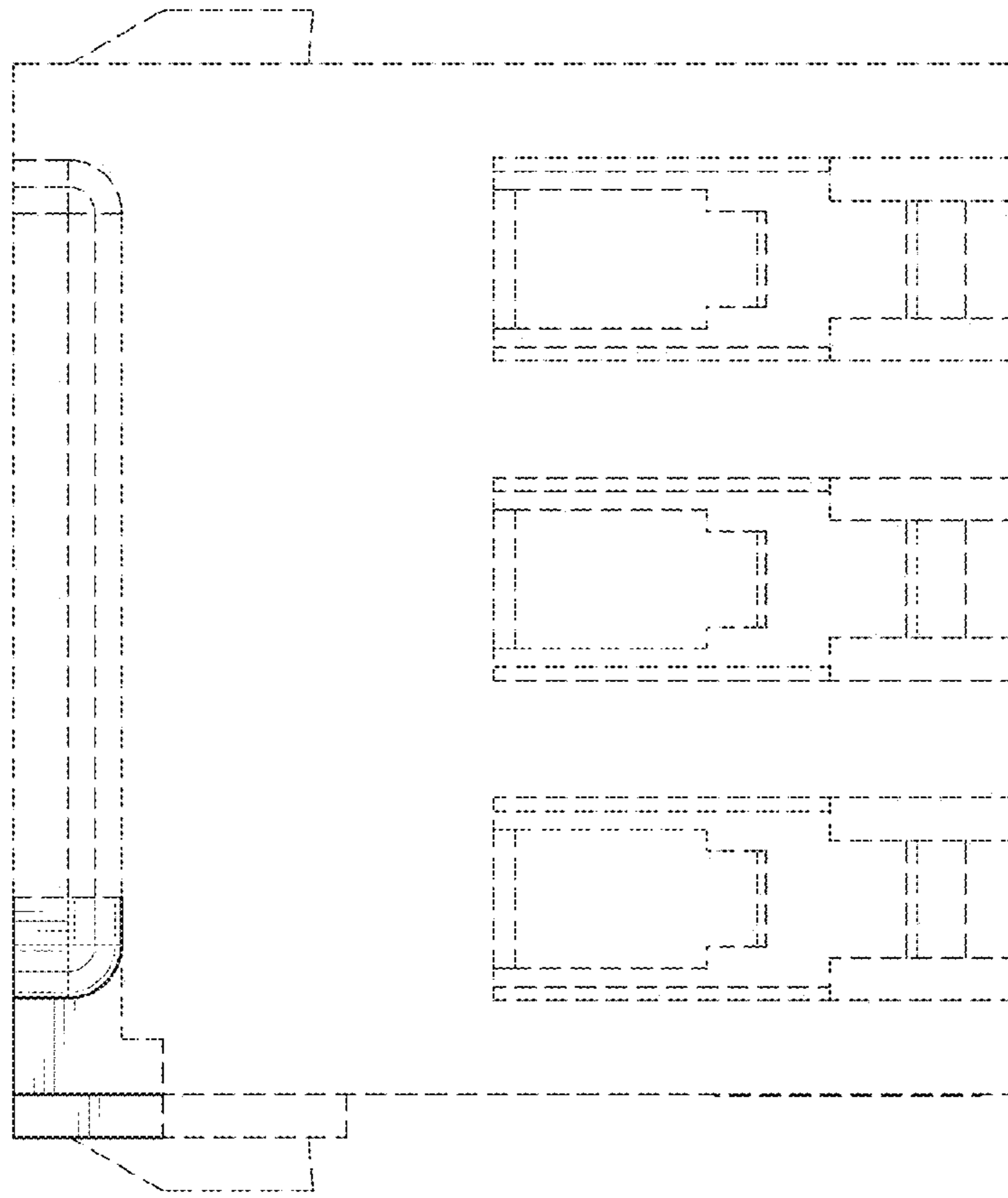


FIG. 8

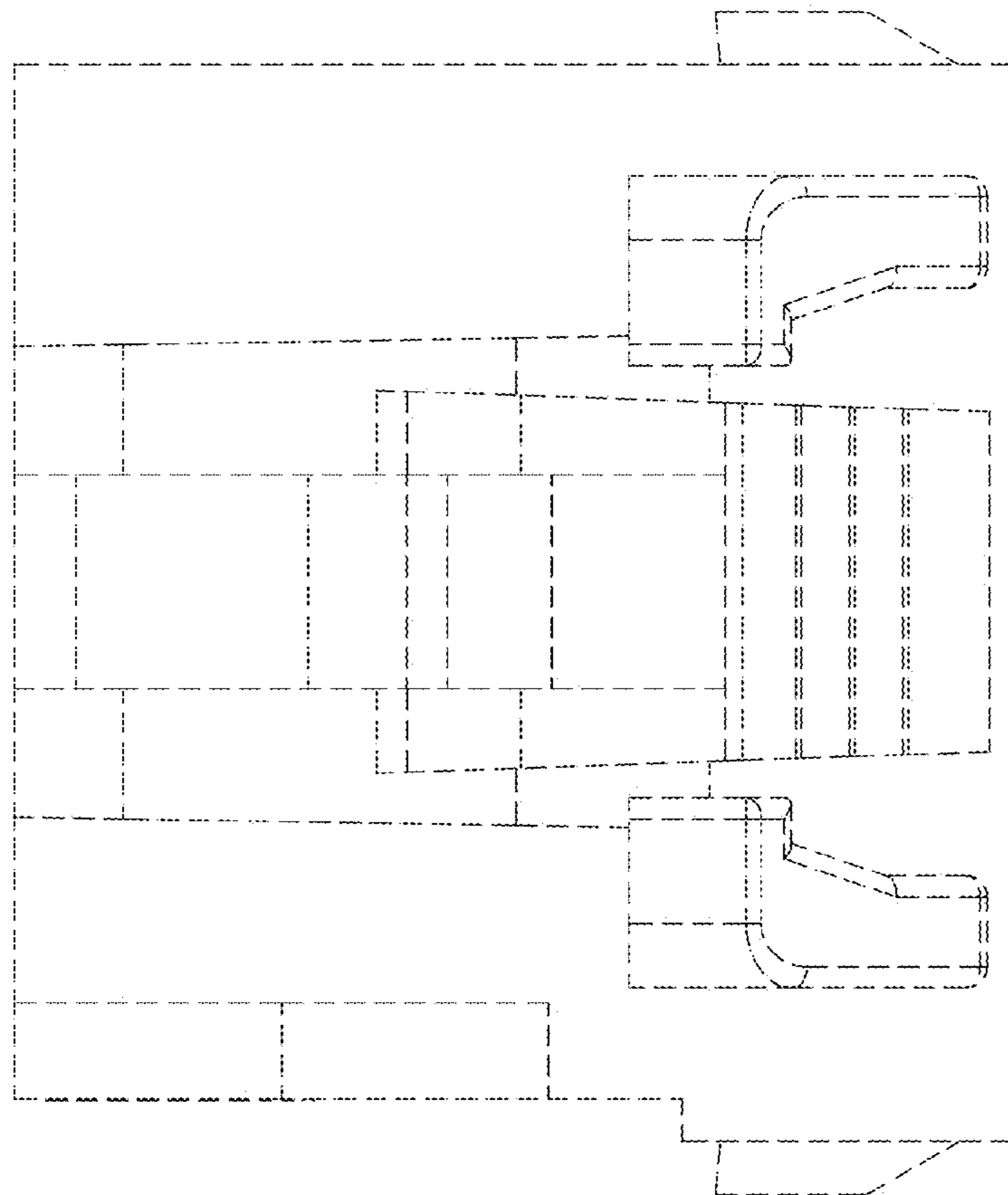


FIG. 7

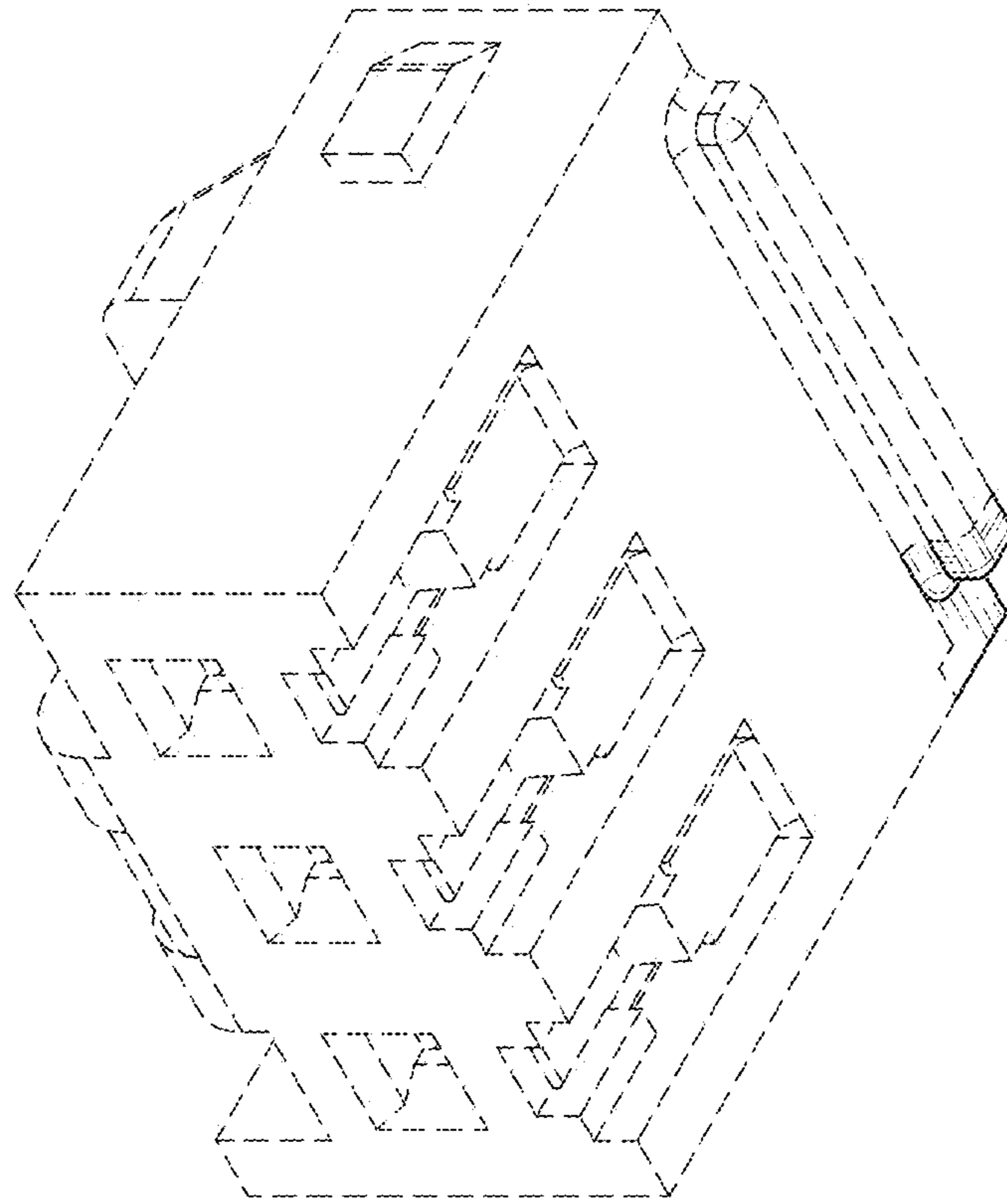


FIG. 10

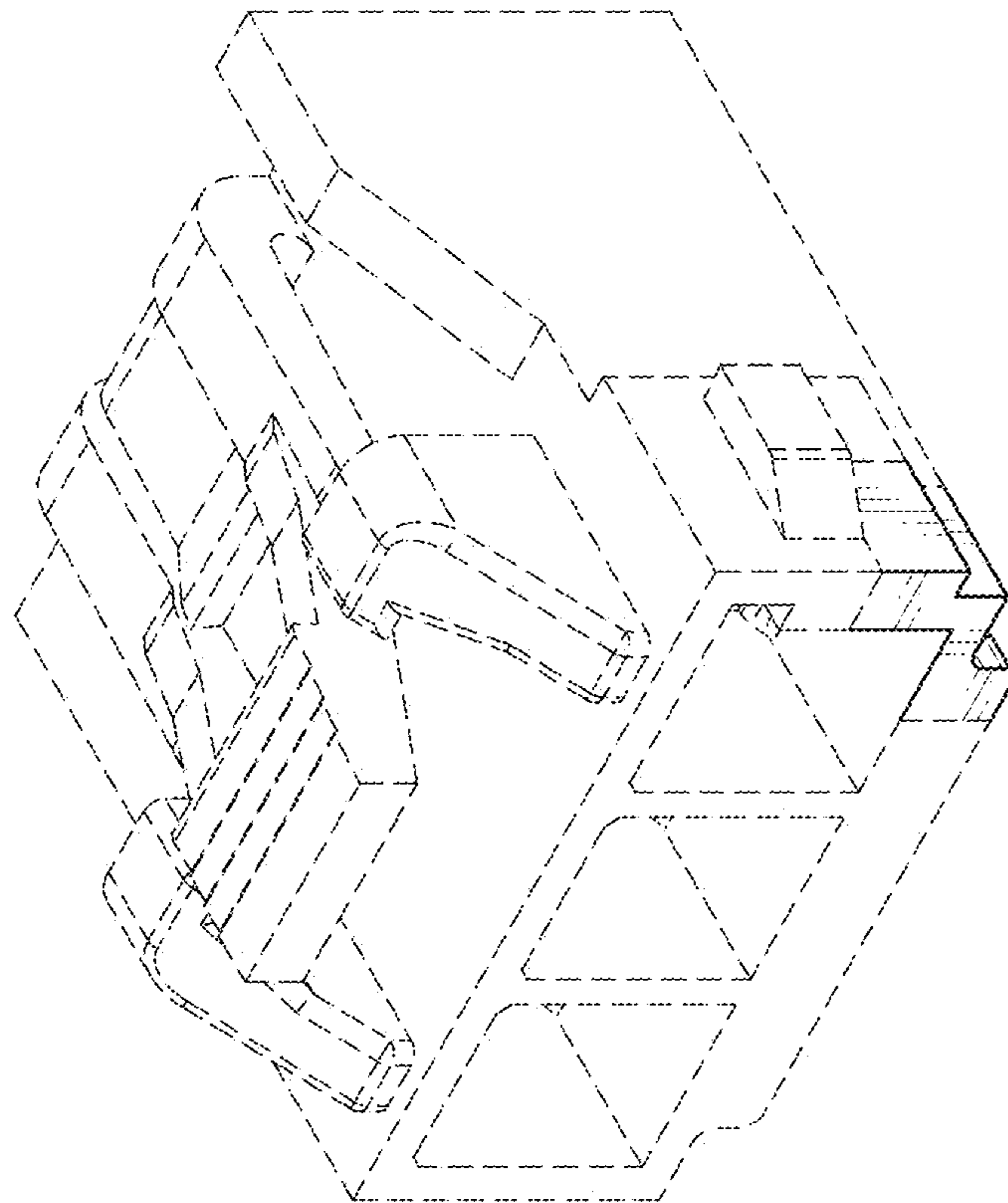


FIG. 9

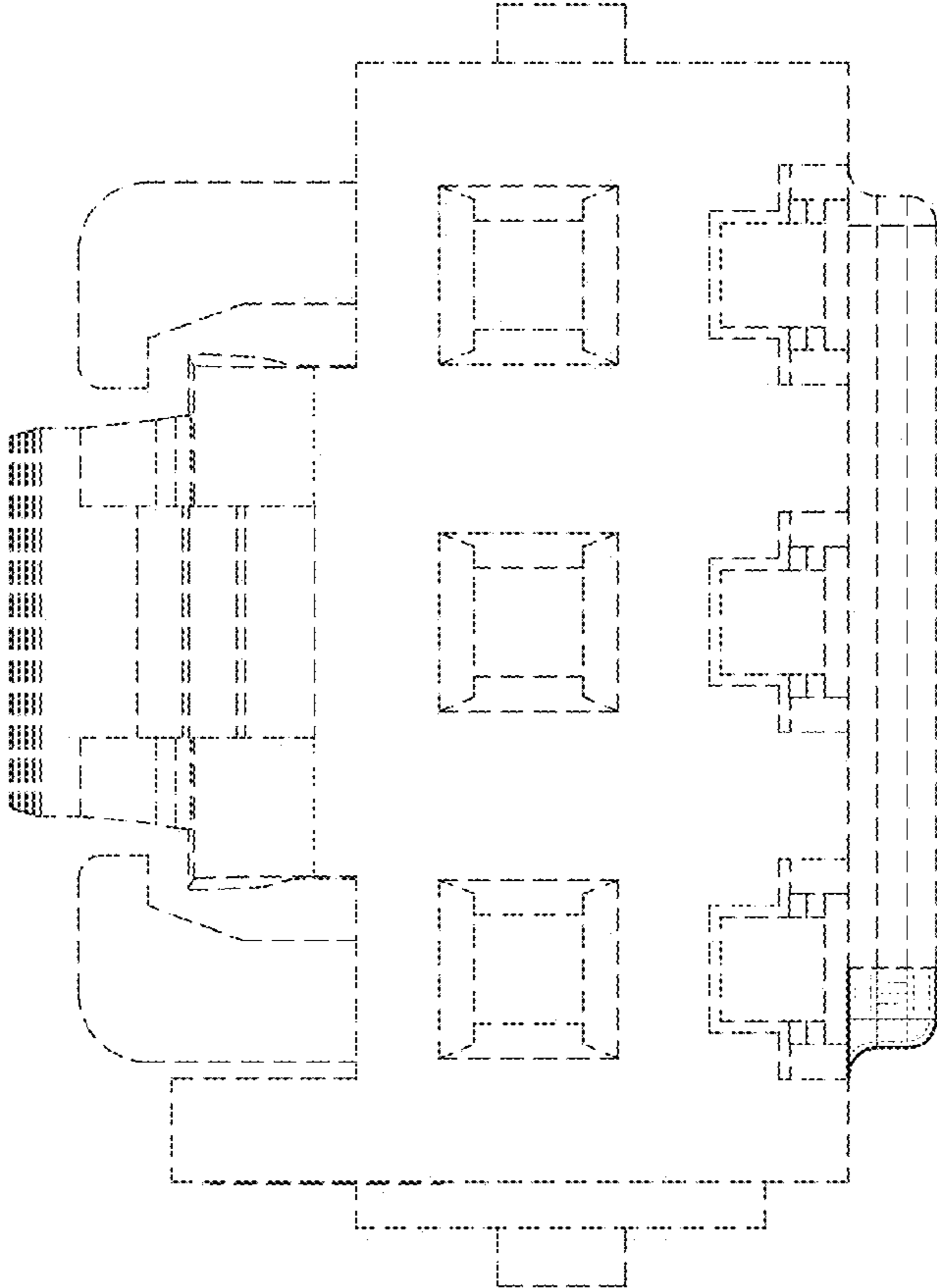


FIG. 12

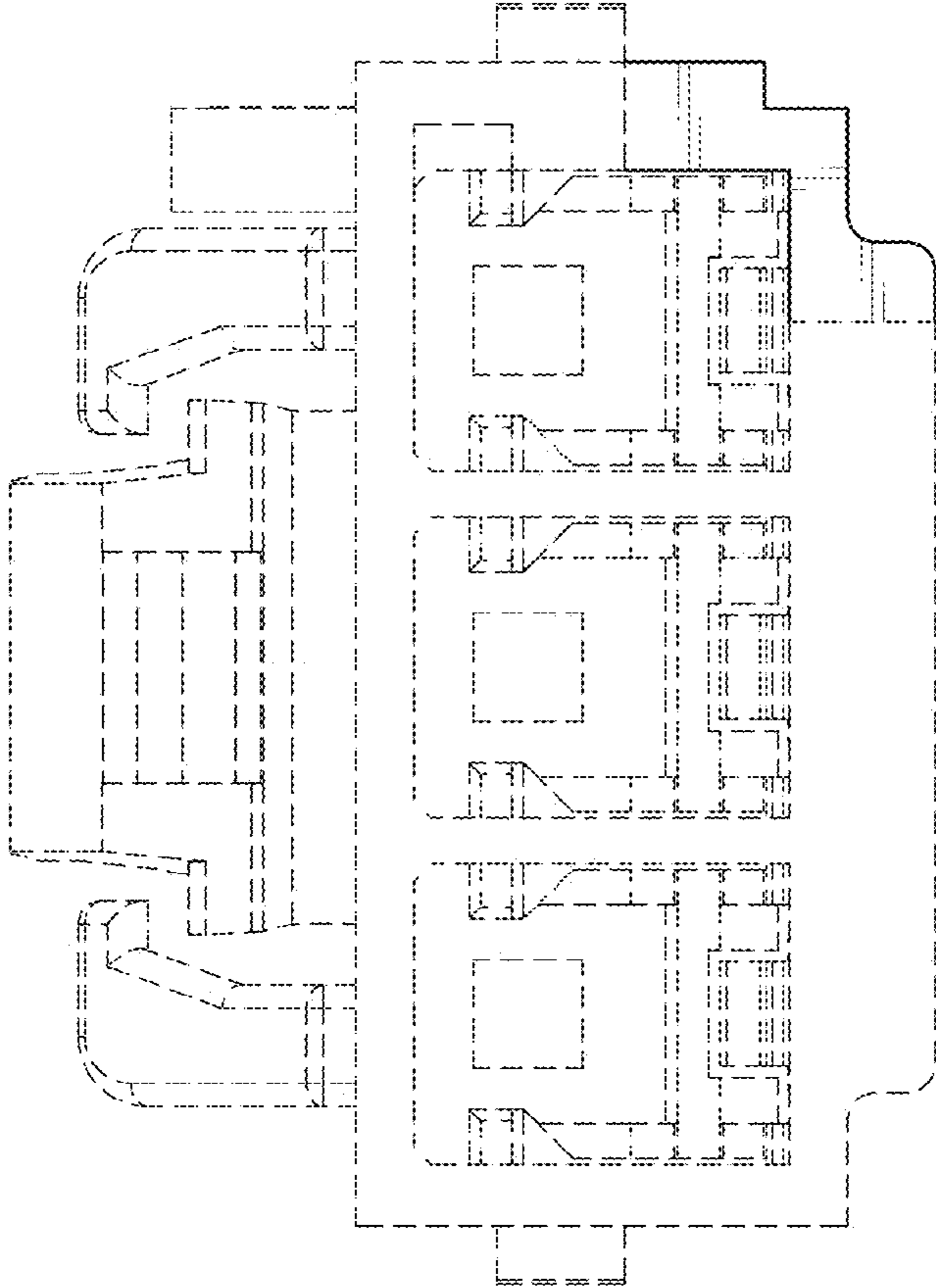


FIG. 11

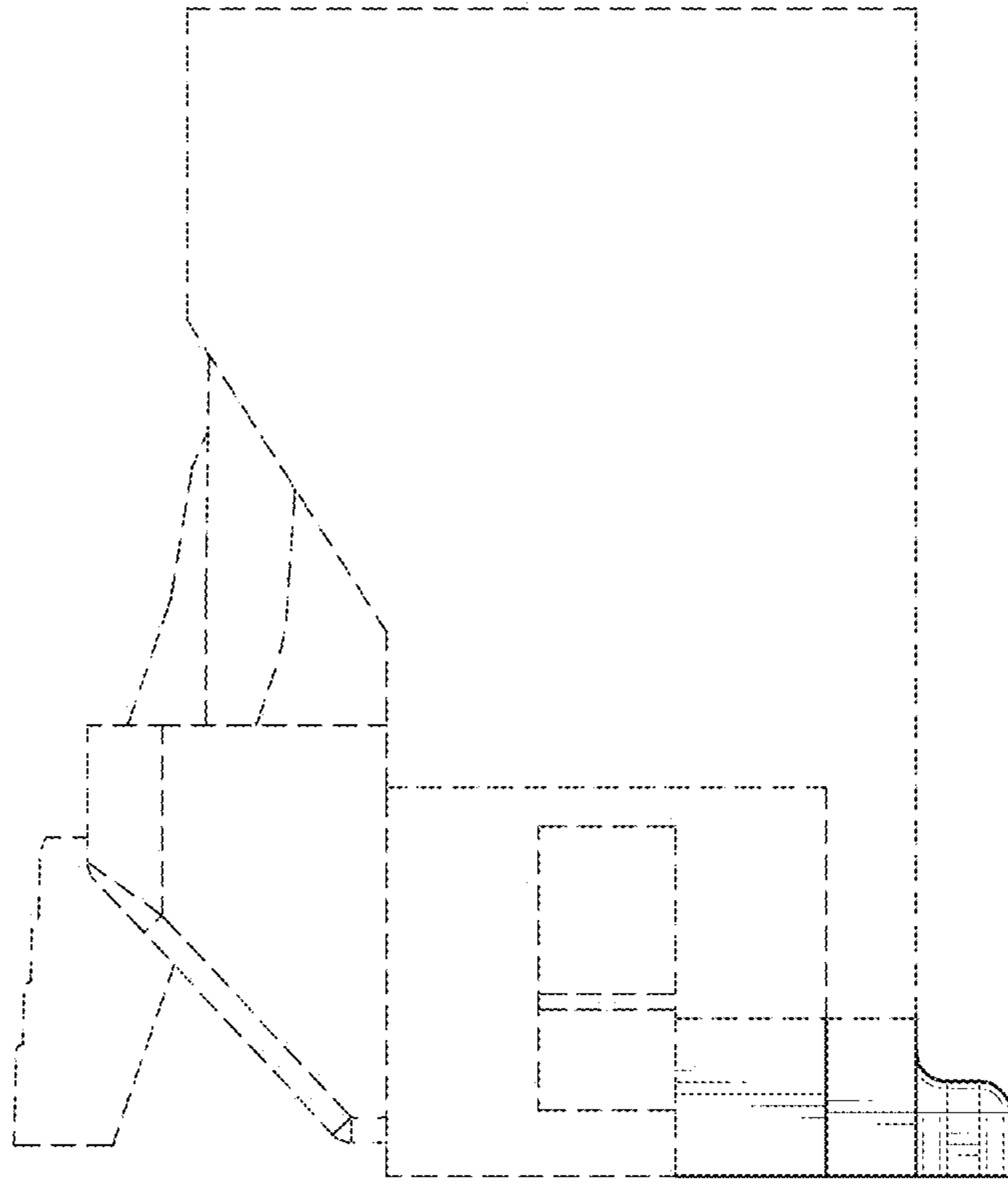


FIG. 14

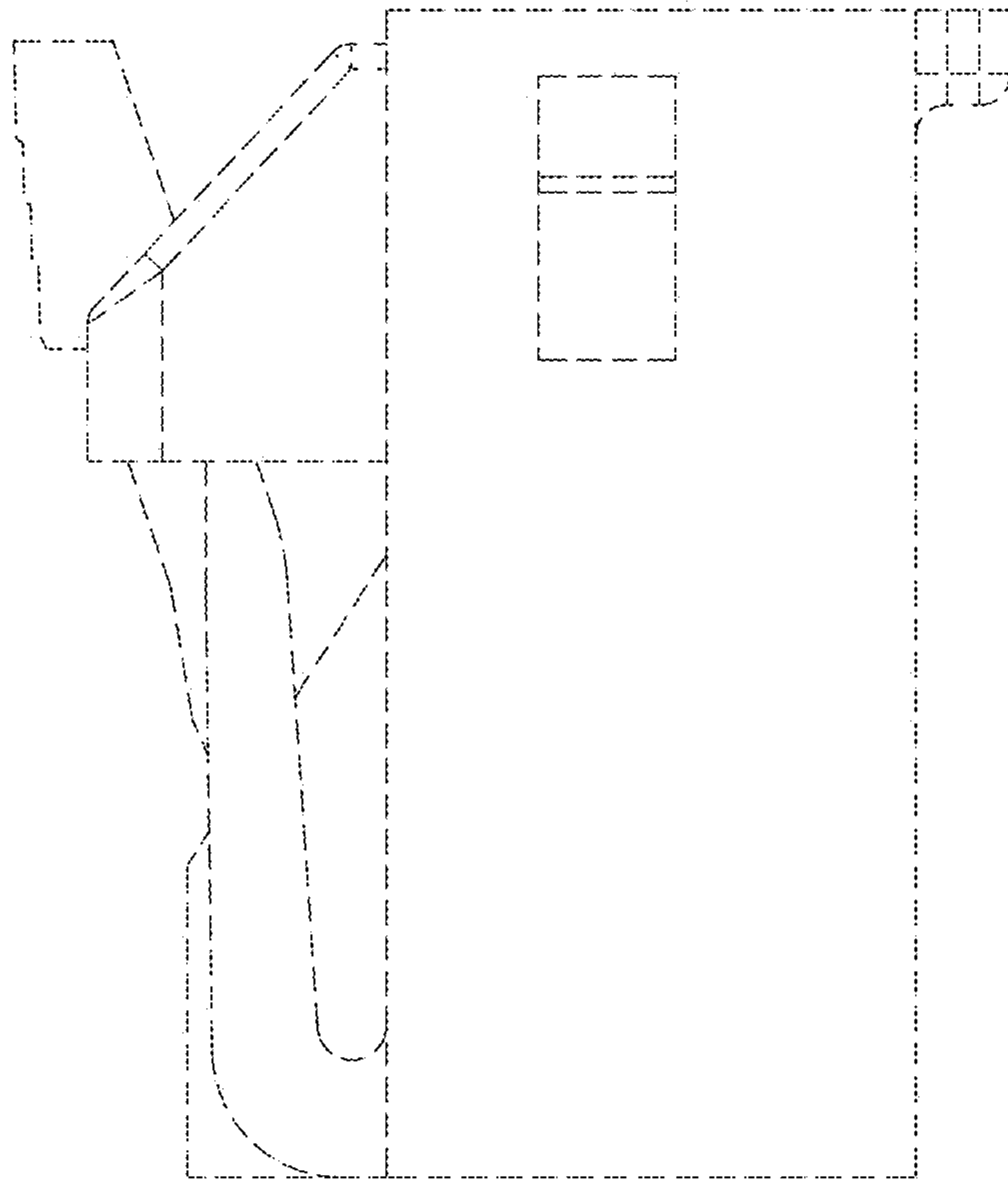


FIG. 13

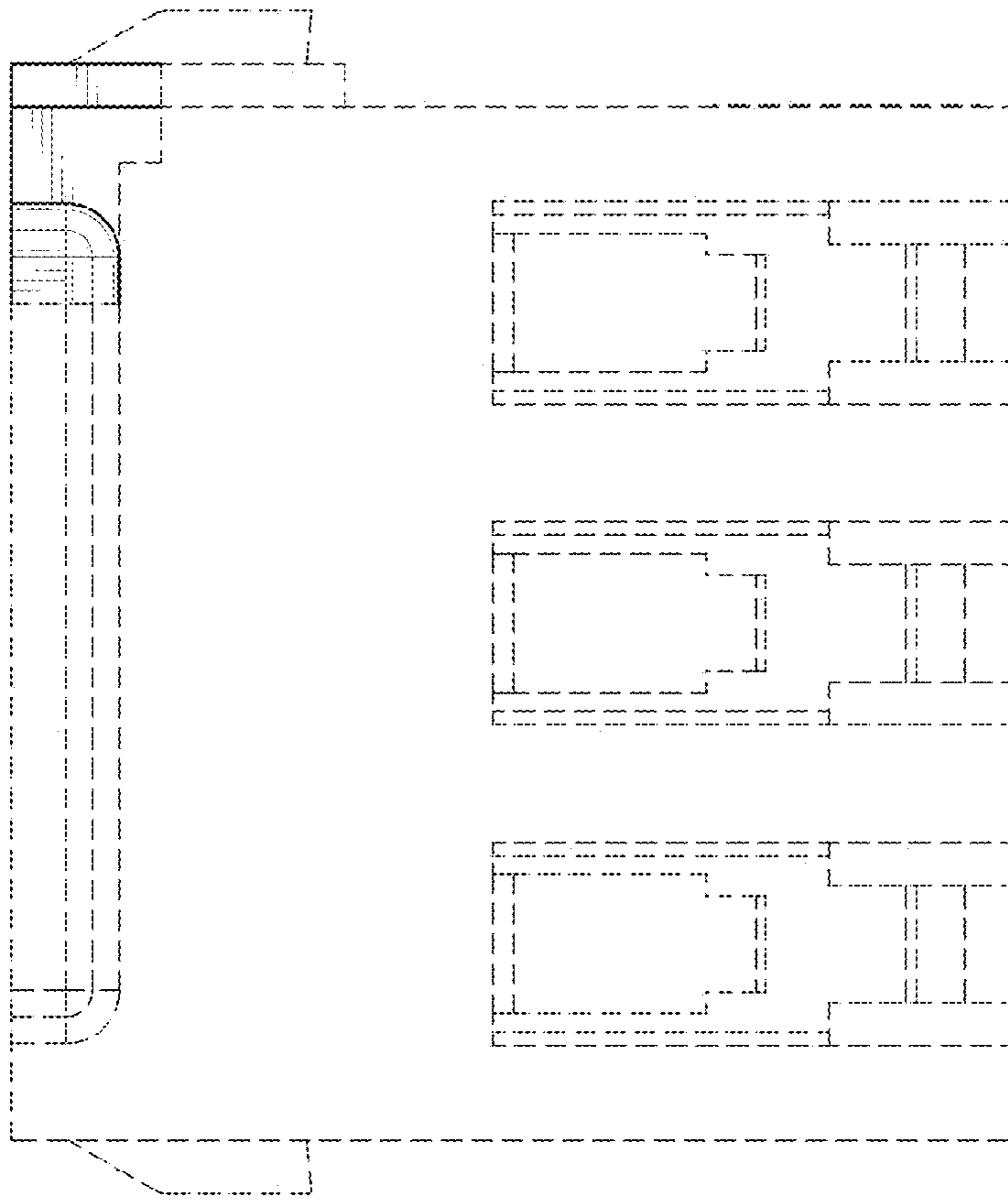


FIG. 16

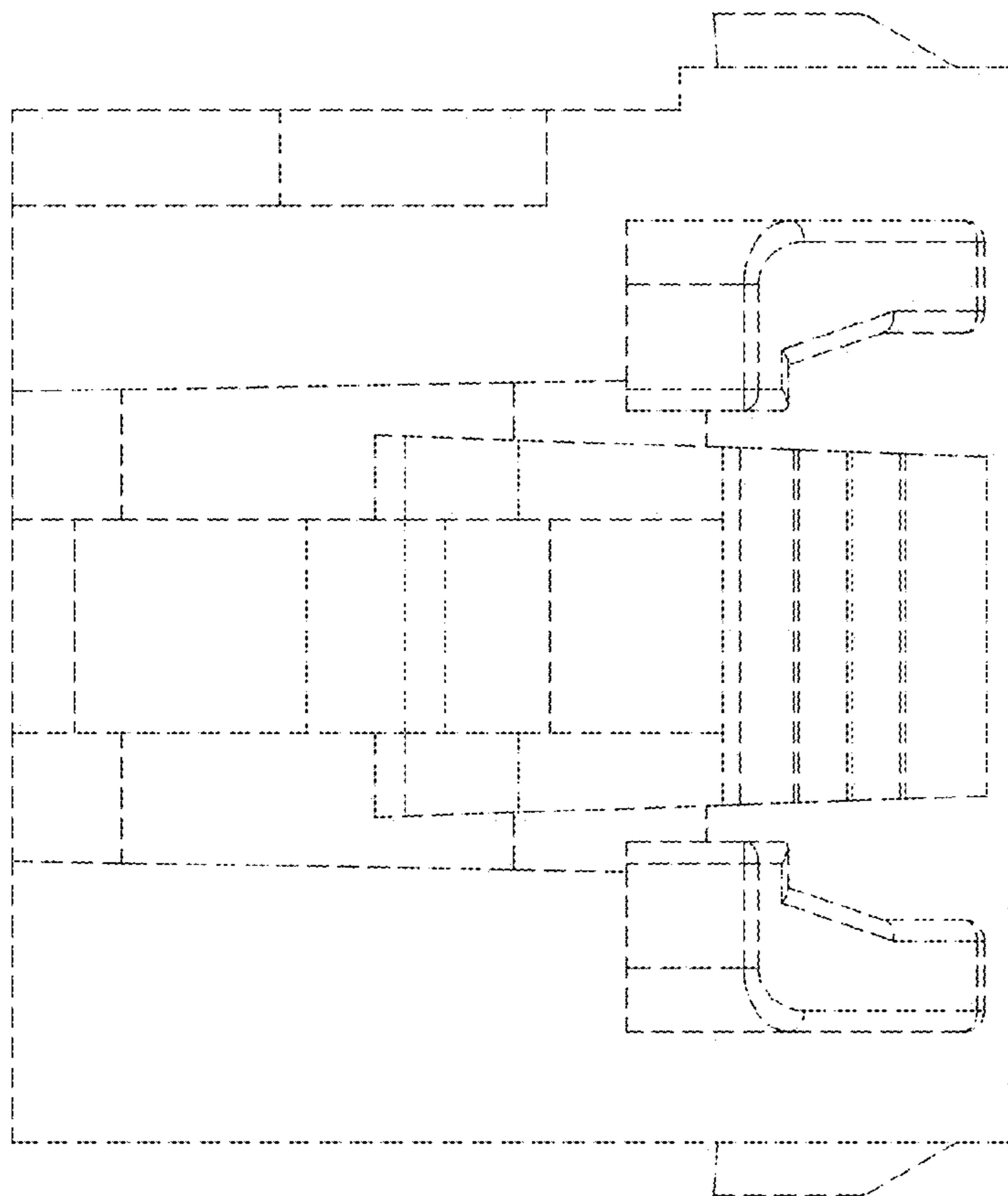


FIG. 15