



US00D859373S

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

(10) **Patent No.:** **US D859,373 S**

(45) **Date of Patent:** **** Sep. 10, 2019**

(54) **ANTENNA ELEMENT**
(71) Applicant: **mitsubishi electric CORPORATION**, Tokyo (JP)
(72) Inventors: **Hiroaki Sakamoto**, Tokyo (JP); **Takashi Yanagi**, Tokyo (JP); **Yusuke Kitsukawa**, Tokyo (JP); **Moriyasu Miyazaki**, Tokyo (JP); **Takuma Kadoya**, Tokyo (JP); **Yuichi Hagito**, Tokyo (JP)
(73) Assignee: **Mitsubishi Electric Corporation**, Tokyo (JP)

5,796,372 A * 8/1998 Elliot H01Q 21/26
343/797
6,140,975 A * 10/2000 Cohen H01Q 1/243
343/792.5
7,123,208 B2 * 10/2006 Puente Baliarda H01Q 1/36
343/800
D533,546 S * 12/2006 Iizuka D14/230
7,453,401 B2 * 11/2008 Jow H01Q 1/36
343/700 MS
8,436,627 B1 * 5/2013 Peng G06F 3/044
178/18.06
D713,826 S * 9/2014 McDonnell D14/230
D768,115 S * 10/2016 Kazanchian D13/182
D819,609 S * 6/2018 Manivannan D14/230
D820,241 S * 6/2018 Howard D14/230

(Continued)

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

Primary Examiner — John Windmuller

(21) Appl. No.: **29/633,320**

(74) *Attorney, Agent, or Firm* — Studebaker & Brackett PC

(22) Filed: **Jan. 12, 2018**

(30) **Foreign Application Priority Data**

Sep. 29, 2017 (JP) 2017-021395

(51) **LOC (12) Cl.** **14-03**

(52) **U.S. Cl.**
USPC **D14/230**

(58) **Field of Classification Search**
USPC D14/138, 230–238, 299, 358; D12/42, D12/43
CPC H01Q 7/00; H01Q 13/10; H01Q 9/285; H01Q 19/30; H01Q 19/12; H01Q 1/38; H01Q 1/36; H01Q 2/0027; H01Q 1/48; H01Q 9/045; H01Q 1/243; H04B 1/0475; H04B 1/034; H05K 11/00
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,273,158 A * 9/1966 Fouts H01Q 21/24
343/792
4,315,272 A * 2/1982 Vorhaus H01L 29/0891
257/270

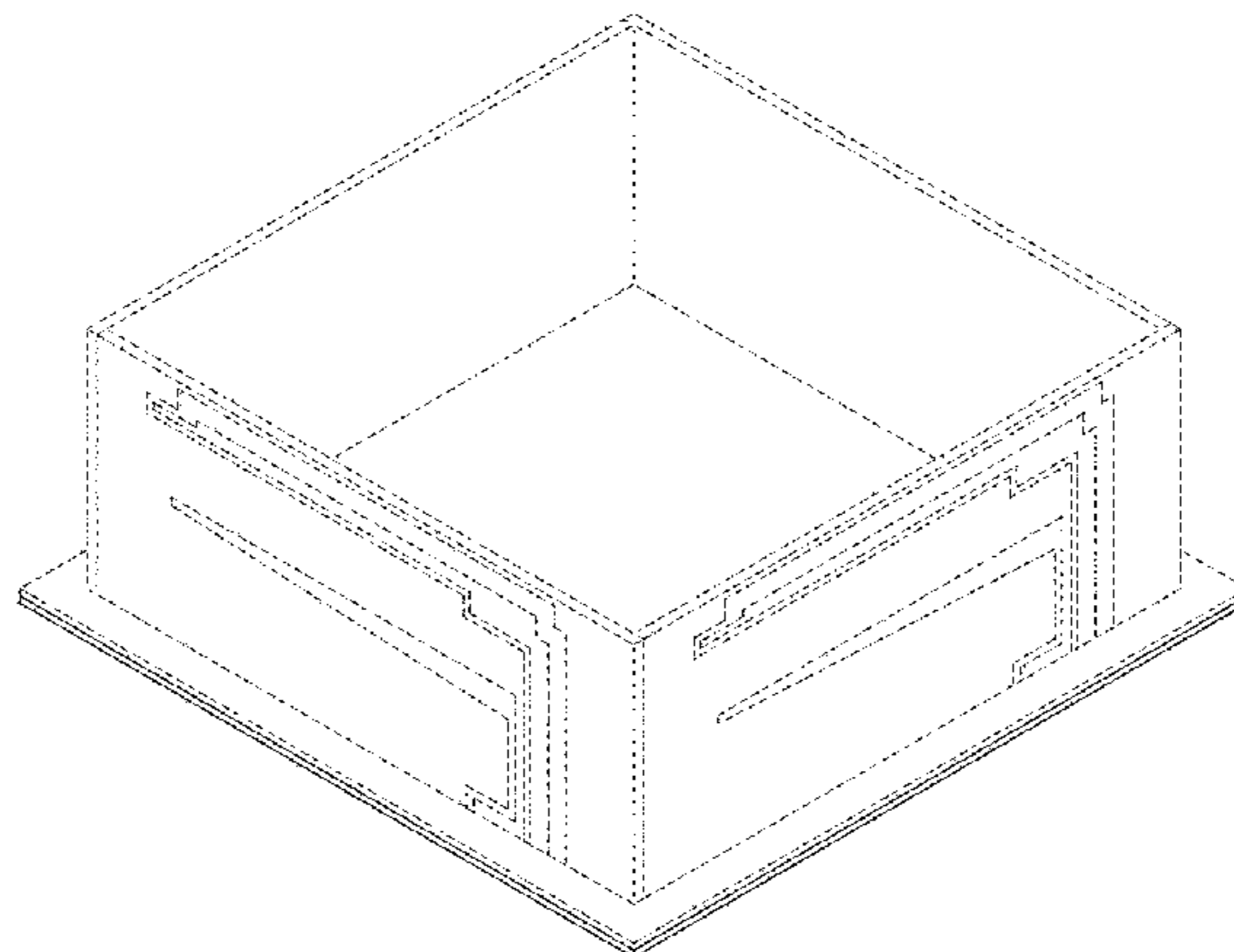
(57) **CLAIM**

The ornamental design for an antenna element, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of the front, right, and top sides of an antenna element showing our new design; FIG. 2 is a rear perspective view of the rear, left, and bottom sides thereof; FIG. 3 is a front view thereof, a rear view being a mirror image thereof; FIG. 4 is a right side view thereof, a left side view being a mirror image thereof; FIG. 5 is a top plan view thereof; and, FIG. 6 is a bottom view thereof. The broken lines shown represent unclaimed subject matter of the antenna element and form no part of the claimed design.

1 Claim, 5 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D820,817 S * 6/2018 Hsieh D14/230
2016/0248171 A1* 8/2016 John H01Q 21/26

* cited by examiner

Fig. 1

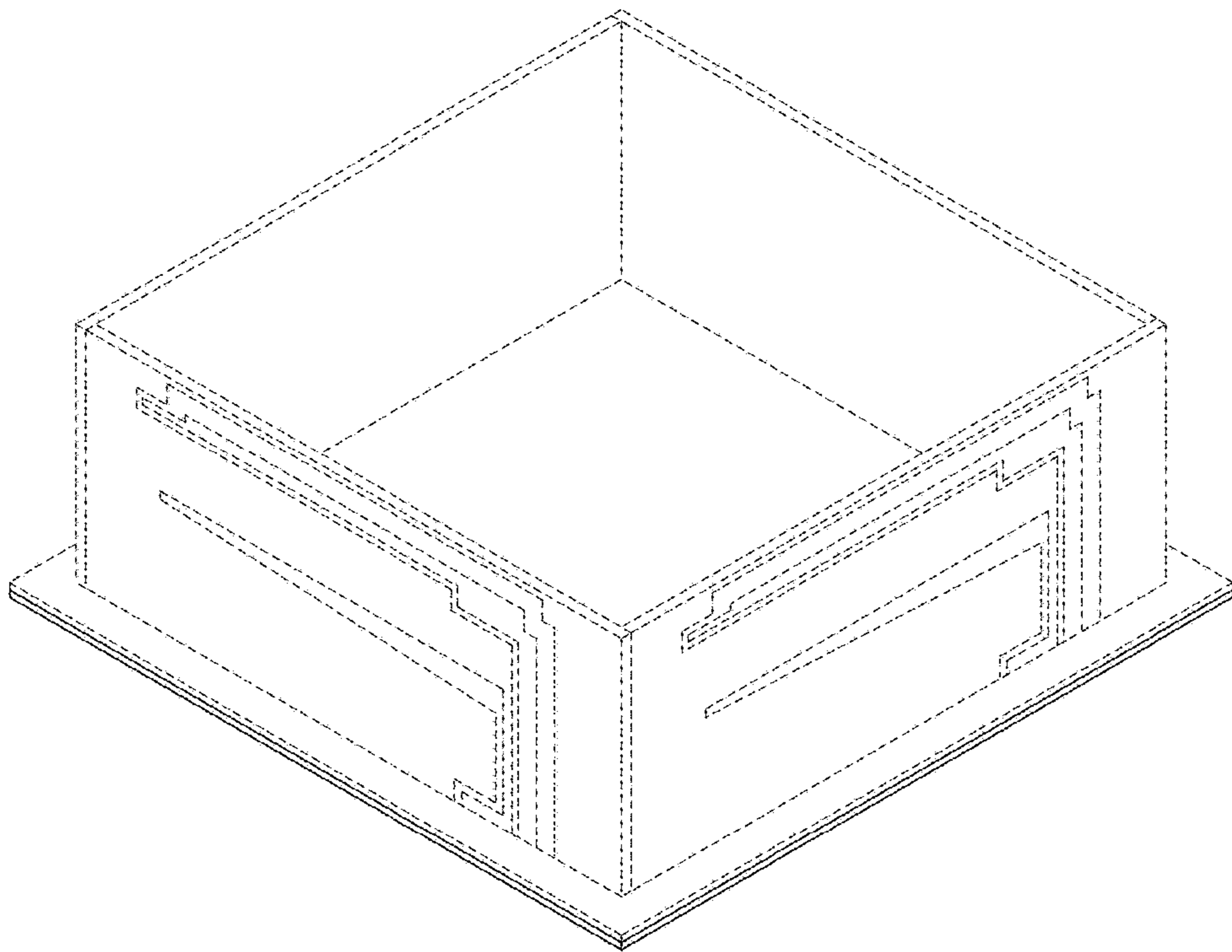


Fig. 2

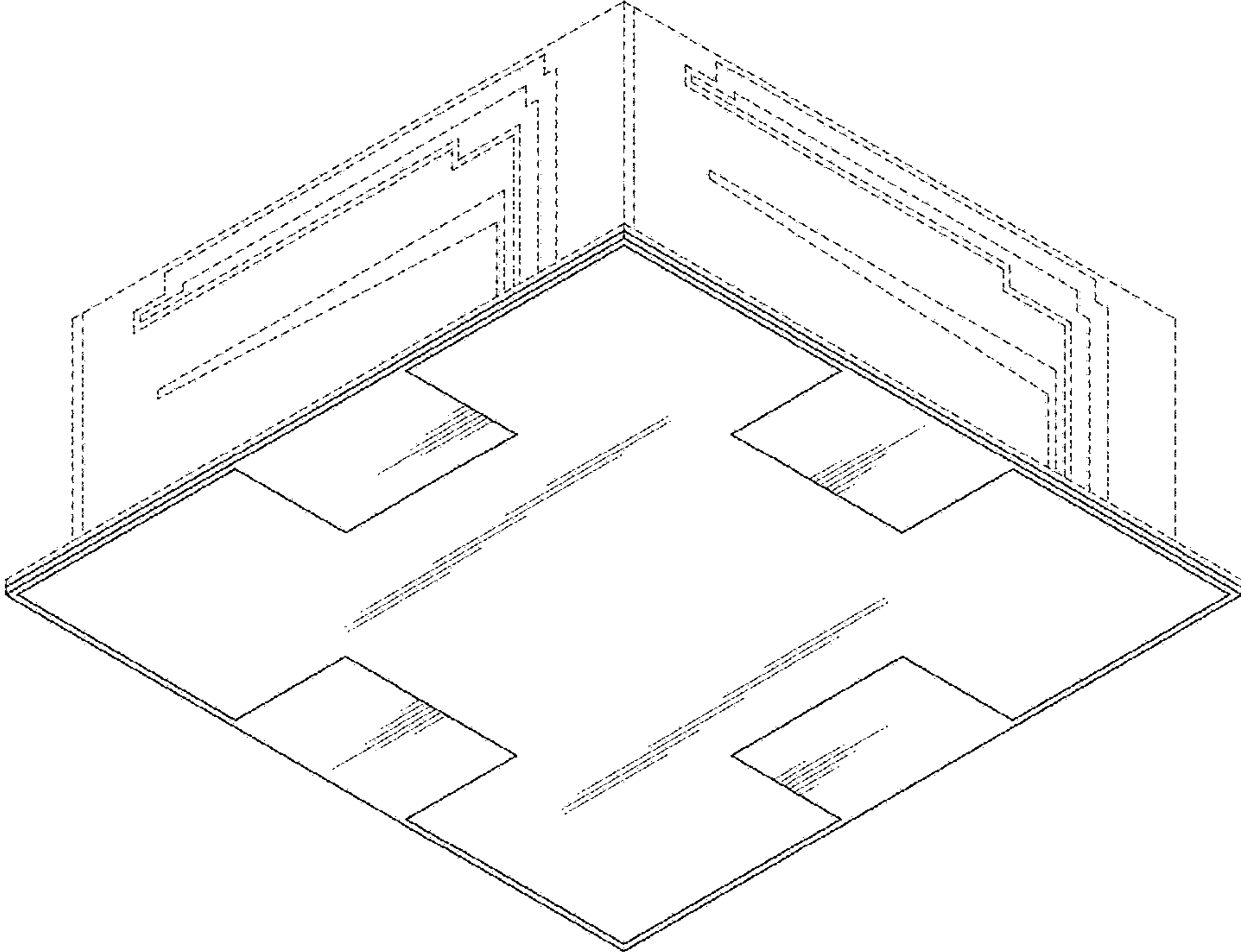


Fig. 3

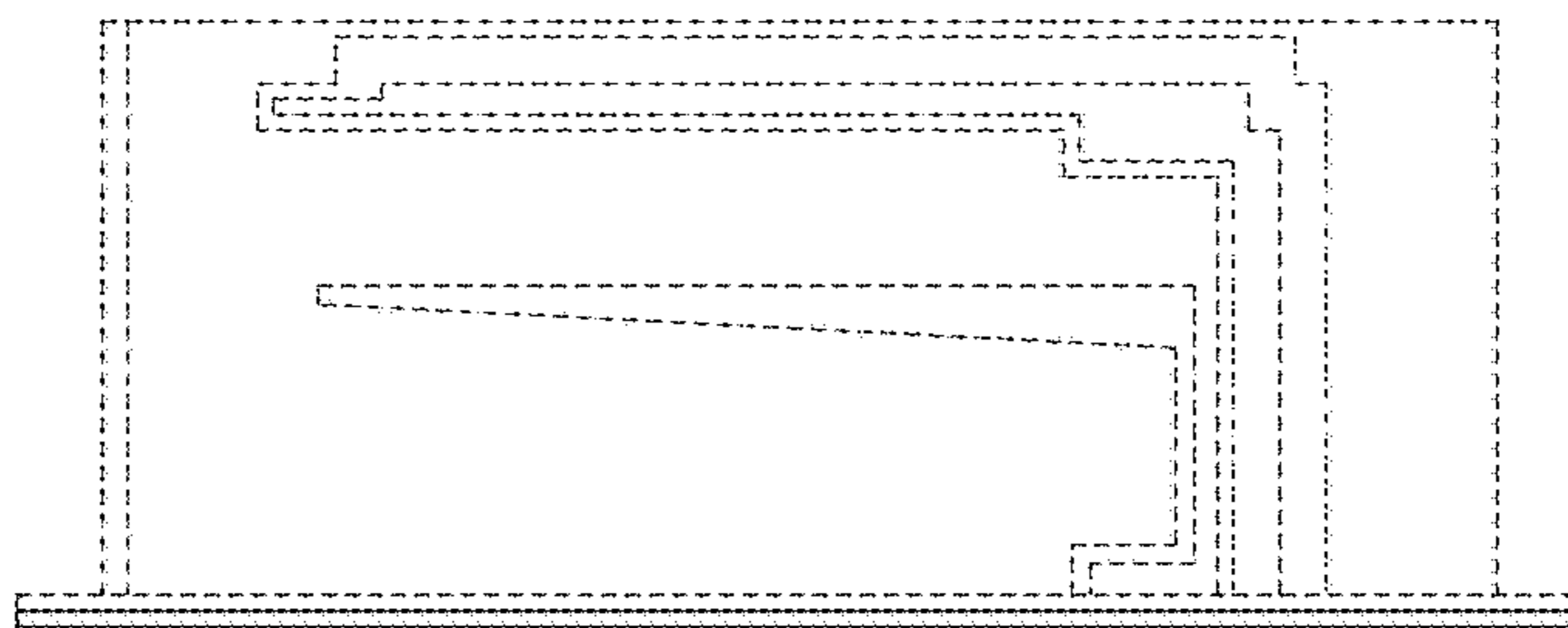


Fig. 4

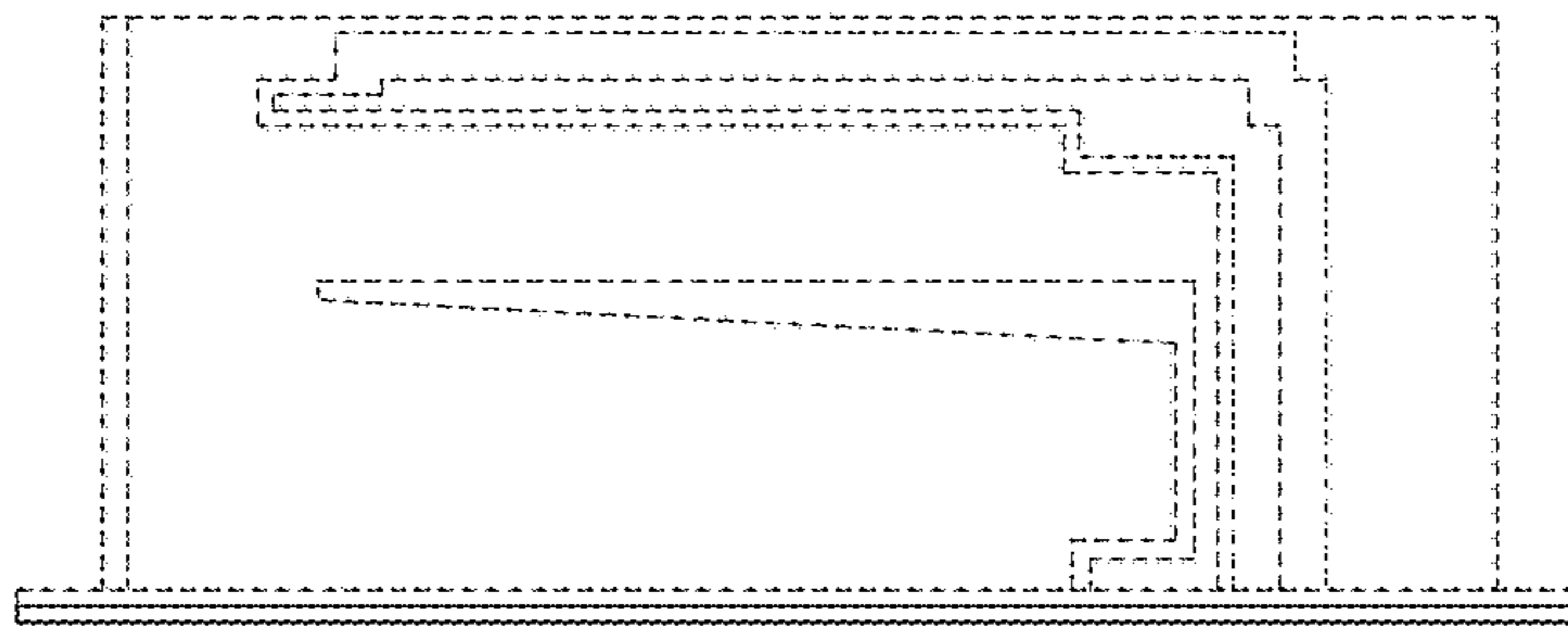


Fig. 5

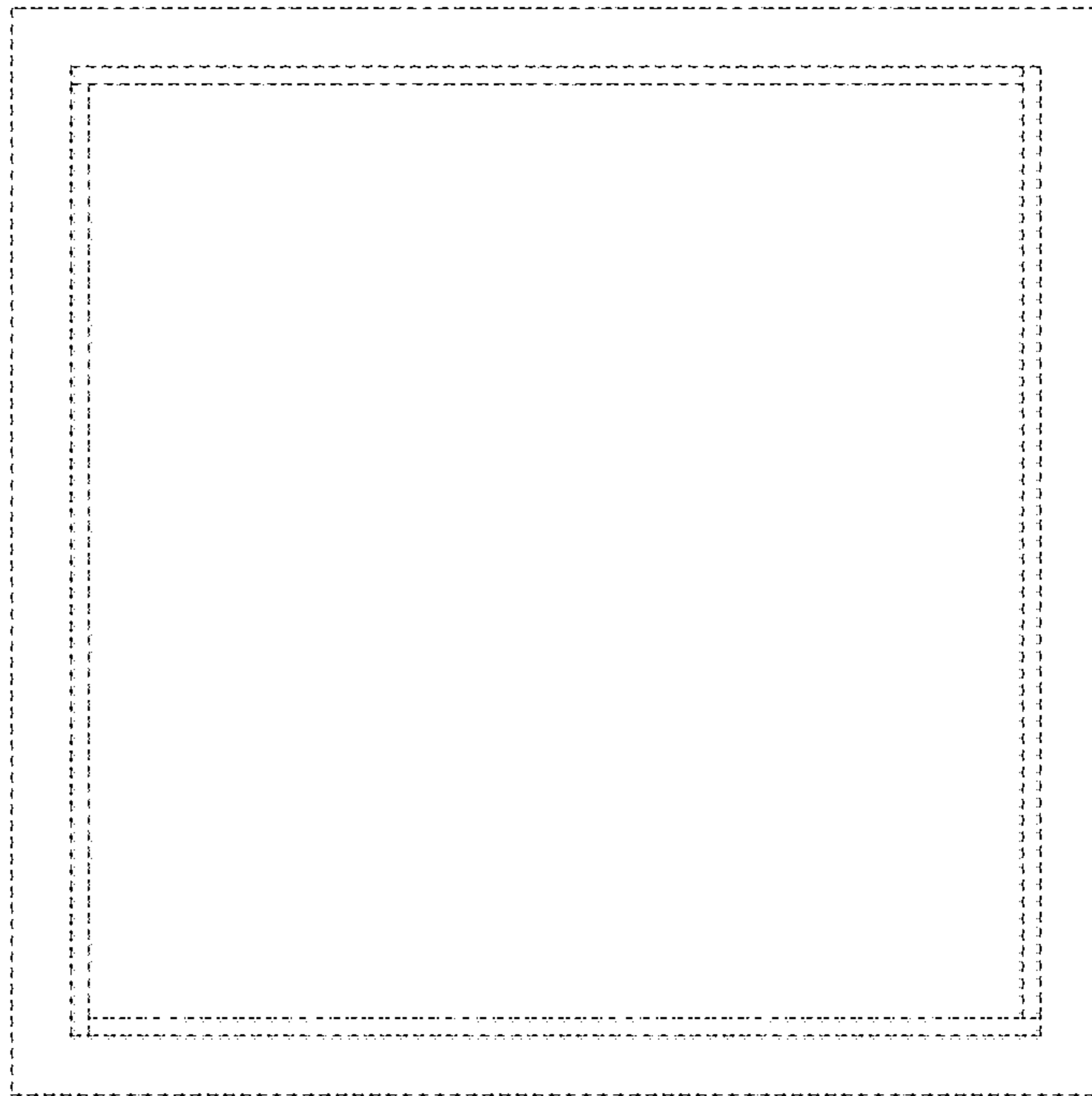


Fig. 6

