



US00RE45741E

(19) **United States**
(12) **Reissued Patent**
Ogura et al.

(10) **Patent Number:** **US RE45,741 E**
(45) **Date of Reissued Patent:** **Oct. 13, 2015**

(54) **SIGNAL CONVERSION DEVICE**
(71) Applicant: **Photonics Electronics Technology Research Association (PETRA)**, Tokyo (JP)
(72) Inventors: **Ichiro Ogura**, Tokyo (JP); **Koichi Takemura**, Tokyo (JP)
(73) Assignee: **Photonics Electronics Technology Research Association (PETRA)**, Tokyo (JP)

D456,787 S * 5/2002 Wasada et al. D13/182
D461,171 S * 8/2002 Fukumoto et al. D13/182
D465,463 S * 11/2002 Wasada et al. D13/182
D465,773 S * 11/2002 Fukumoto et al. D13/182
D475,028 S * 5/2003 Hori et al. D13/182
D475,355 S * 6/2003 Hori et al. D13/182
D475,982 S * 6/2003 Hori et al. D13/182
6,709,278 B2 * 3/2004 Liu 439/67

(Continued)

(21) Appl. No.: **29/474,435**
(22) Filed: **Sep. 18, 2014**

Related U.S. Patent Documents

Reissue of:
(64) Patent No.: **Des. 707,193**
Issued: **Jun. 17, 2014**
Appl. No.: **29/467,180**
Filed: **Sep. 16, 2013**

(30) **Foreign Application Priority Data**

Mar. 18, 2013 (JP) 2013-005943

(51) **LOC (10) Cl.** **13-03**
(52) **U.S. Cl.**
USPC **D13/182**
(58) **Field of Classification Search**
USPC D13/182; D9/432; D21/500; D25/113
CPC G01J 1/44; G01J 1/46; G01J 1/42;
G01J 1/10; H03M 1/00; H03M 1/001; H03M
1/02; H03M 1/004; H03M 1/008; H03M
1/005

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D138,413 S * 8/1944 Powers D9/430
3,497,750 A * 2/1970 Knochel et al. 313/503
D333,615 S * 3/1993 Zutler D3/294
5,565,656 A * 10/1996 Mottahed 174/372

OTHER PUBLICATIONS

Notice of Allowance mailed Jan. 17, 2014 in U.S. Appl. No. 29/467,180, 13 pages.

Primary Examiner — Phillip S Hyder

(74) *Attorney, Agent, or Firm* — Kilpatrick Townsend & Stockton LLP

(57) **CLAIM**

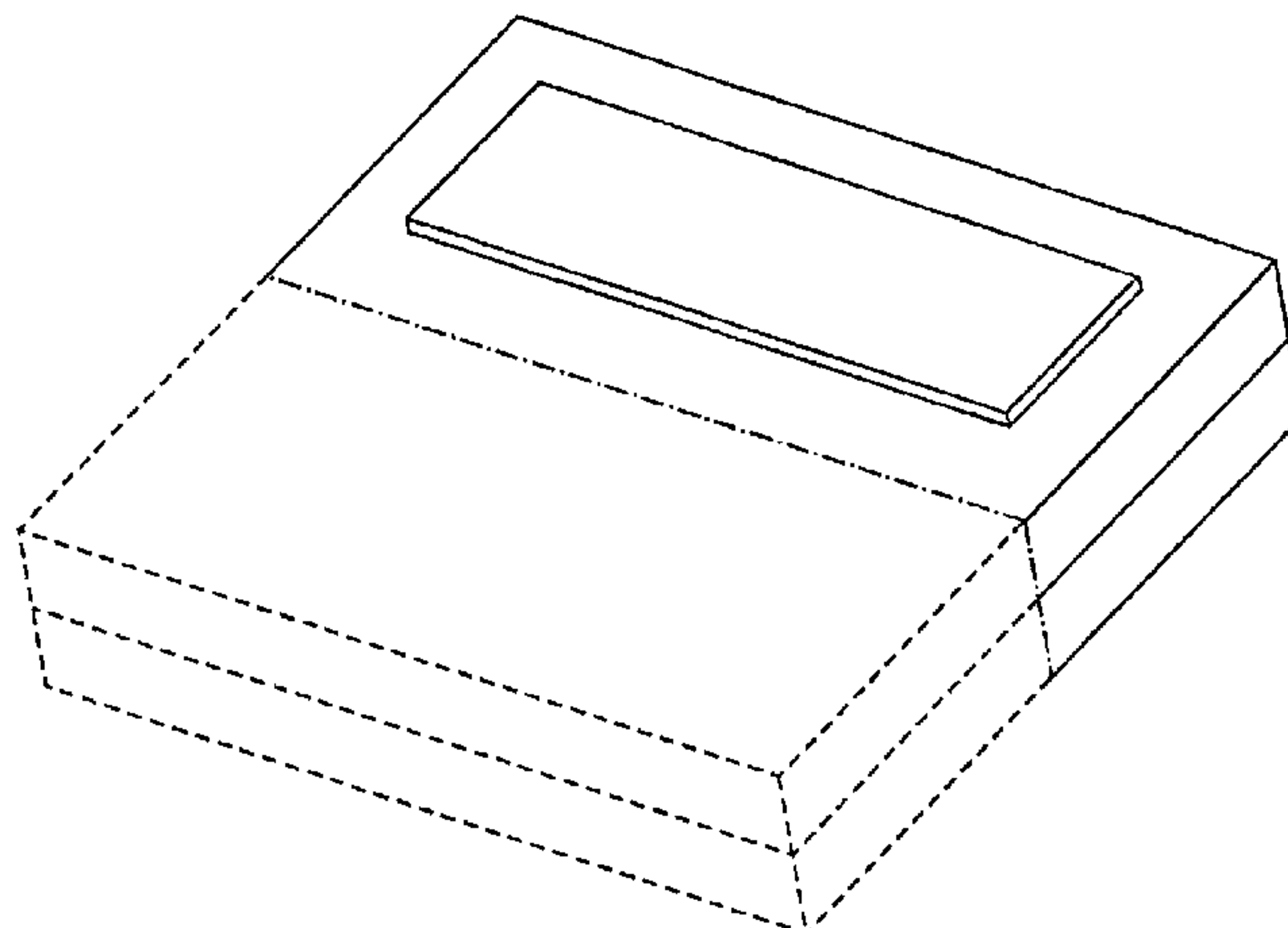
The ornamental design for signal conversation device, as shown and described.

DESCRIPTION

FIG. 1 is a front elevation view of a signal conversion device showing our new design;
FIG. 2 is a top plan view thereof;
FIG. 3 is a rear elevation view thereof;
FIG. 4 is a bottom plan view thereof;
FIG. 5 is a left side elevation view thereof;
FIG. 6 is a right side elevation view thereof; and,
FIG. 7 is a top perspective view thereof.
The dashed-dot-dashed lines represent the boundary line of the claimed design. The even spaced broken lines shown in the drawings represent portions of the signal conversion device that form no part of the claimed design.

1 Claim, 4 Drawing Sheets

Matter enclosed in heavy brackets [] appears in the original patent but forms no part of this reissue; matter printed in italics indicates the additions made by reissue.



(56)

References Cited

U.S. PATENT DOCUMENTS

6,823,086 B1 *	11/2004	Dolazza	382/261	D673,921 S *	1/2013	Ozawa	D13/182
D504,874 S *	5/2005	Celaya et al.	D13/182	D673,922 S *	1/2013	Moriai et al.	D13/182
D510,728 S *	10/2005	Celaya et al.	D13/182	D683,634 S *	6/2013	Hayakawa et al.	D10/46
7,350,326 B2 *	4/2008	Hu	40/544	D684,124 S *	6/2013	Matsuhisa et al.	D13/180
D633,450 S *	3/2011	Fujihara et al.	D13/180	D684,125 S *	6/2013	Kawachi et al.	D13/180
D633,451 S *	3/2011	Fujihara et al.	D13/180	D684,126 S *	6/2013	Kawachi et al.	D13/180
D637,165 S *	5/2011	Kuzuoka	D13/180	D688,637 S *	8/2013	Matsuhisa et al.	D13/180
D638,380 S *	5/2011	Kuzuoka	D13/180	D690,277 S *	9/2013	Matsuhisa et al.	D13/180
D642,996 S *	8/2011	Miyake	D13/180	D694,200 S *	11/2013	Matsuhisa et al.	D13/180
D658,602 S *	5/2012	Egawa et al.	D13/180	2001/0019245 A1 *	9/2001	Ohshita et al.	313/506
D664,506 S *	7/2012	Kuzuoka	D13/180	2005/0168143 A1 *	8/2005	Kum et al.	313/512
D664,937 S *	8/2012	Kuzuoka	D13/180	2006/0186520 A1 *	8/2006	Toba et al.	257/678
				2008/0200041 A1 *	8/2008	Lin et al.	439/62
				2009/0267526 A1 *	10/2009	Sung et al.	315/169.3
				2011/0248627 A1 *	10/2011	Fukano et al.	313/504

* cited by examiner

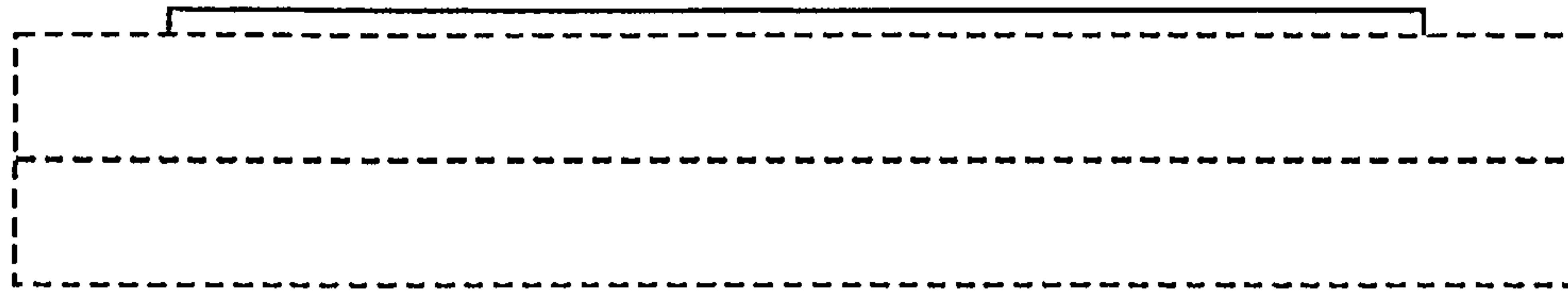


FIG. 1

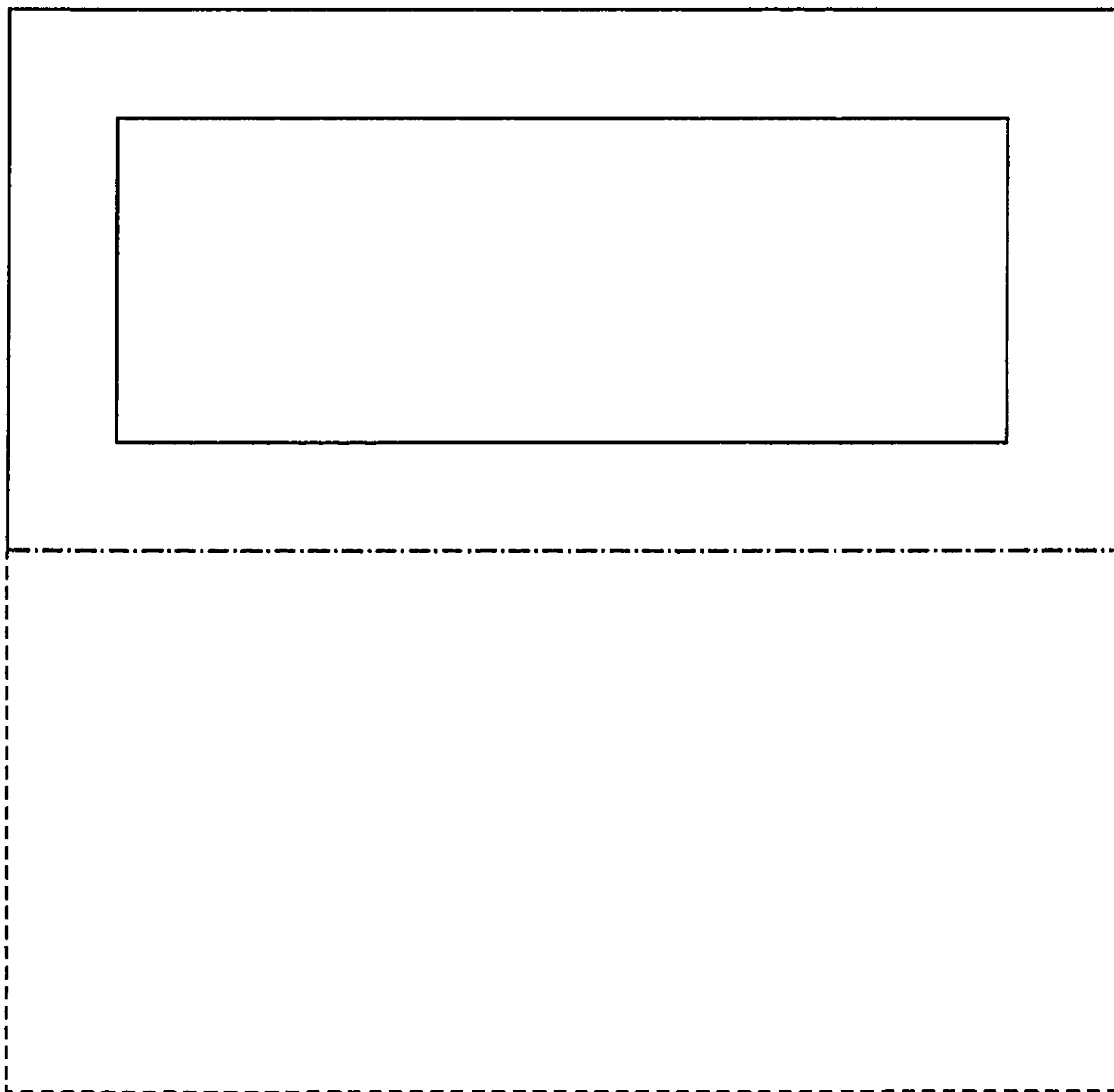


FIG. 2

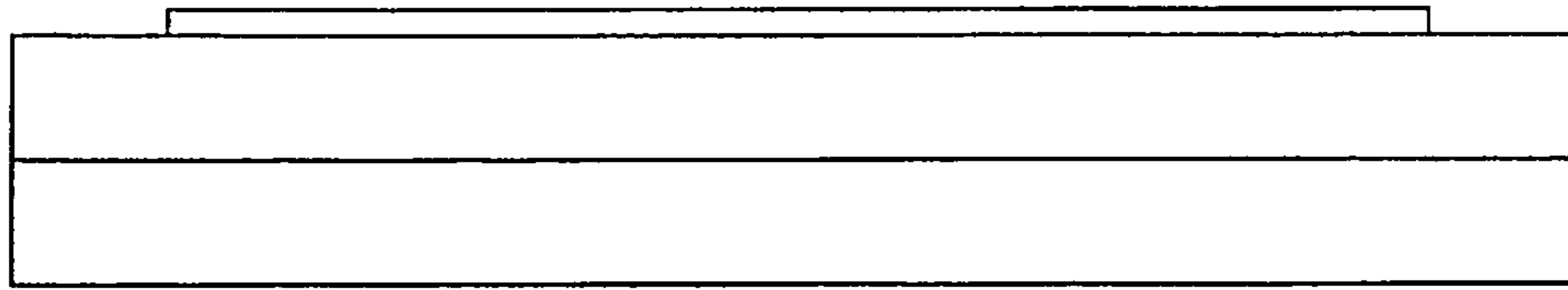


FIG. 3

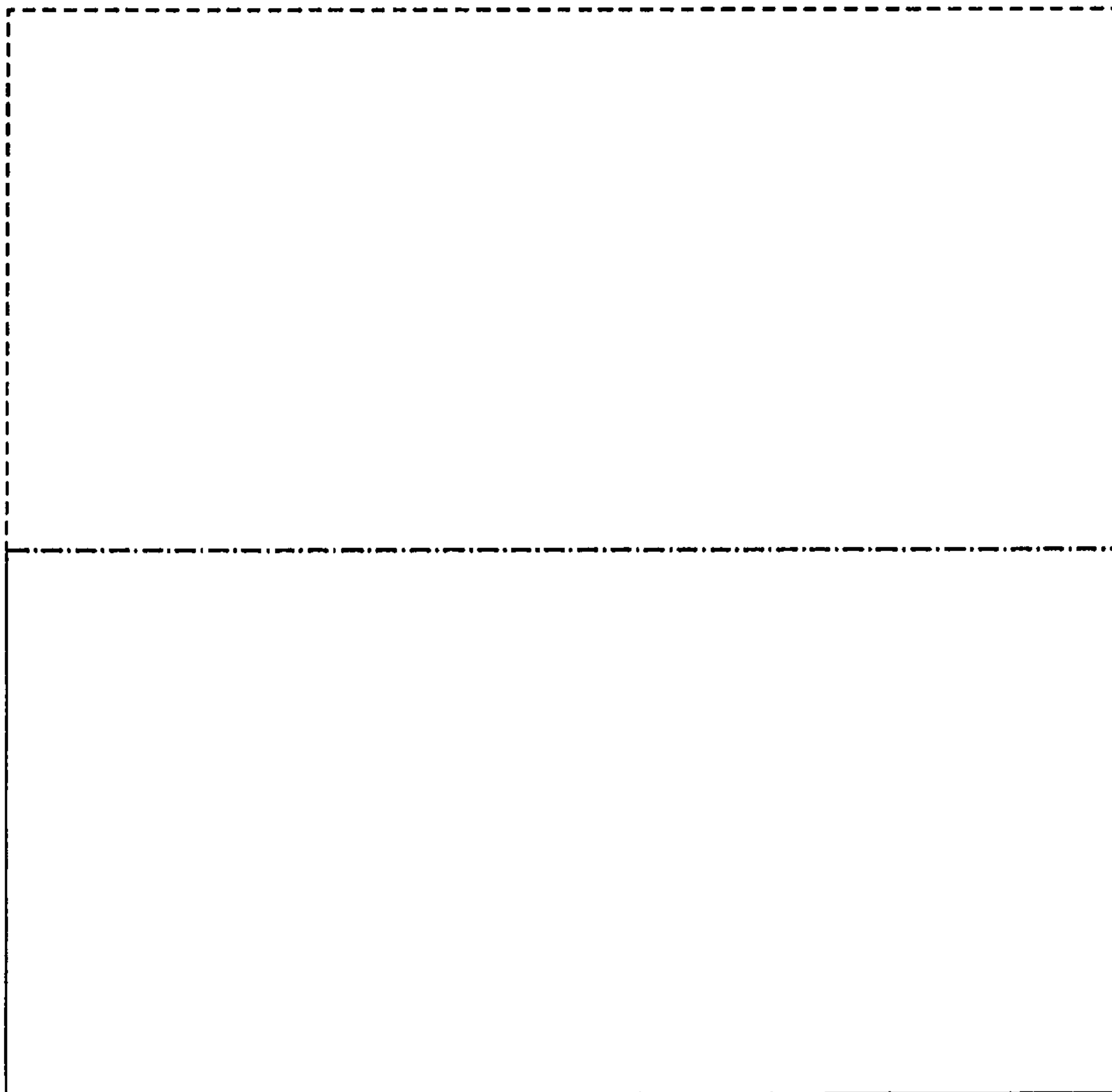


FIG. 4

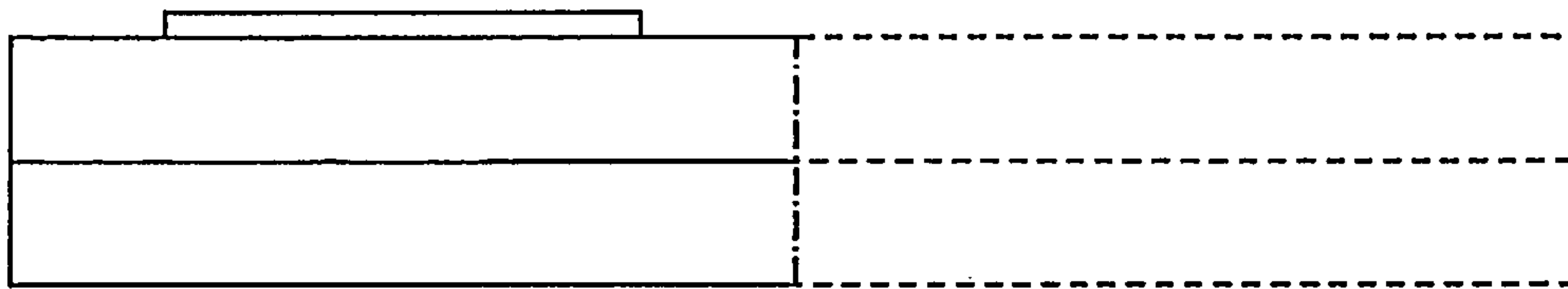


FIG. 5

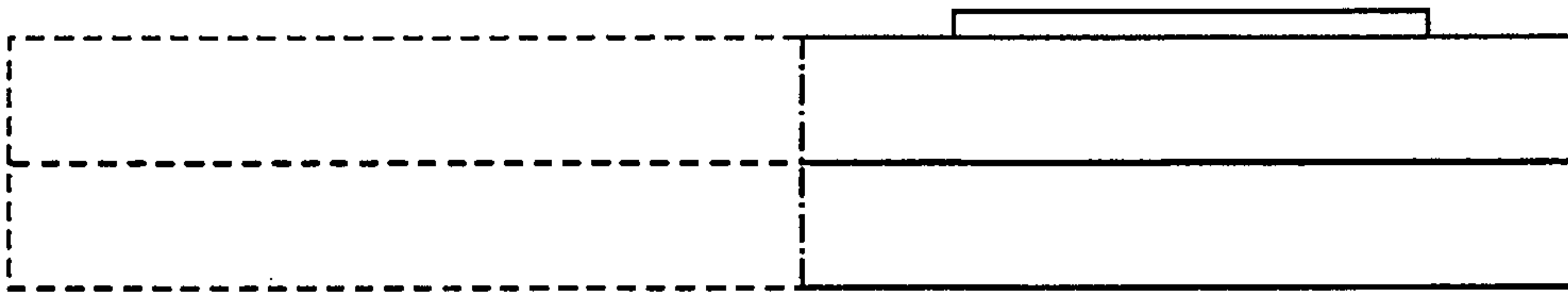


FIG. 6

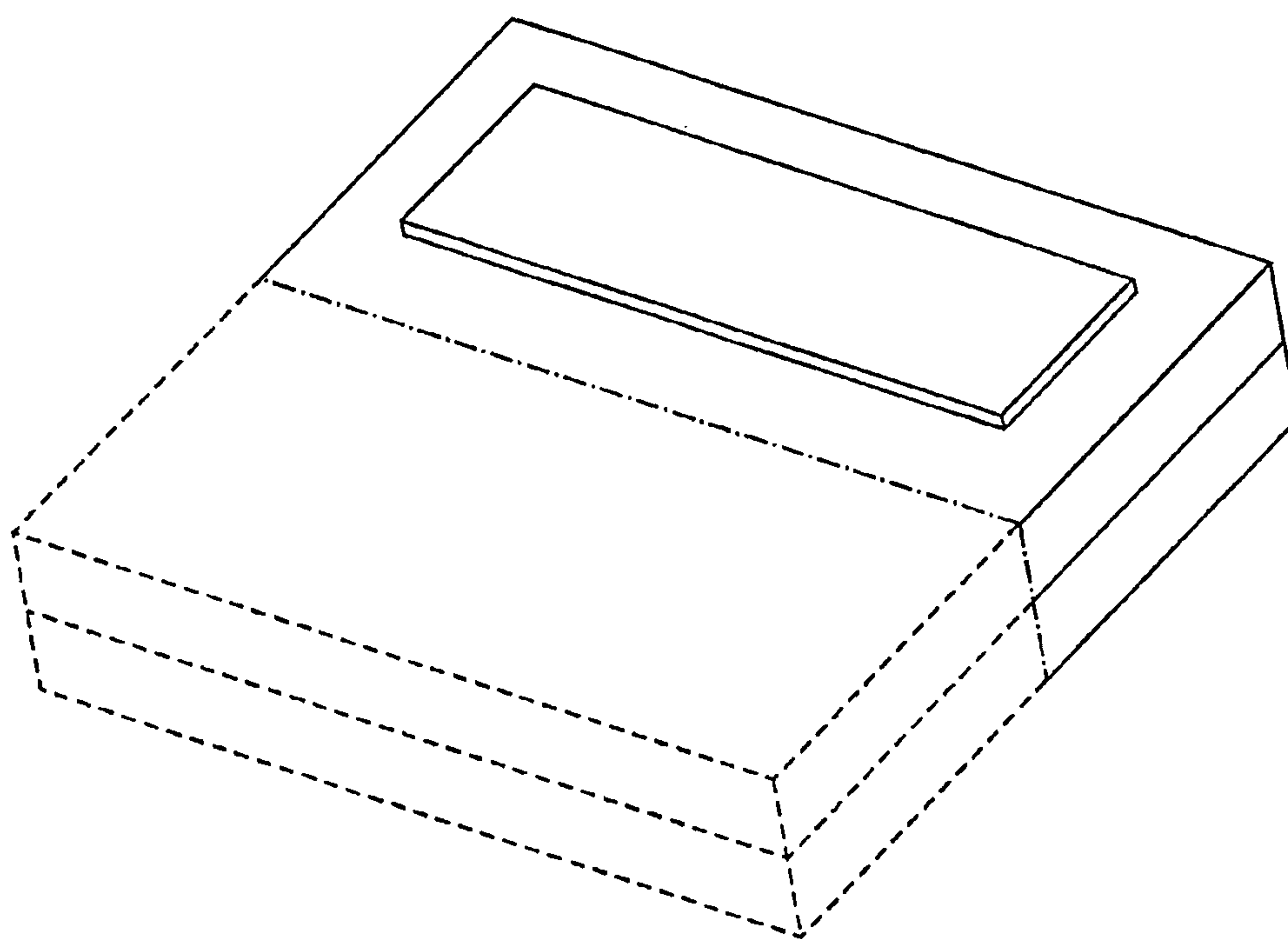


FIG. 7