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

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(54) **SUBSTRATE FOR SPECTROSCOPIC ANALYSIS**

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Related U.S. Application Data

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(30) **Foreign Application Priority Data**

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(51) **LOC (10) Cl.** **24-02**

(52) **U.S. Cl.**
USPC **D24/225**

(58) **Field of Classification Search**
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D10/80, 81; 422/502, 503, 507, 430,
422/560-566, 68.1, 69, 547; 435/288.4,
435/288.3, 289.1, 283.1, 288.2, 288.5;
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CPC B01J 19/0046; B01J 2219/00596;
G01N 1/405; G01N 35/00009; G01N 1/312;
B01L 2300/0816; B01L 2400/0406; B01L
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B01L 9/00; B01L 3/5085; B01L 3/5027;
A61B 5/1427; C12M 1/28; C12M 1/22;
C12M 27/02

See application file for complete search history.

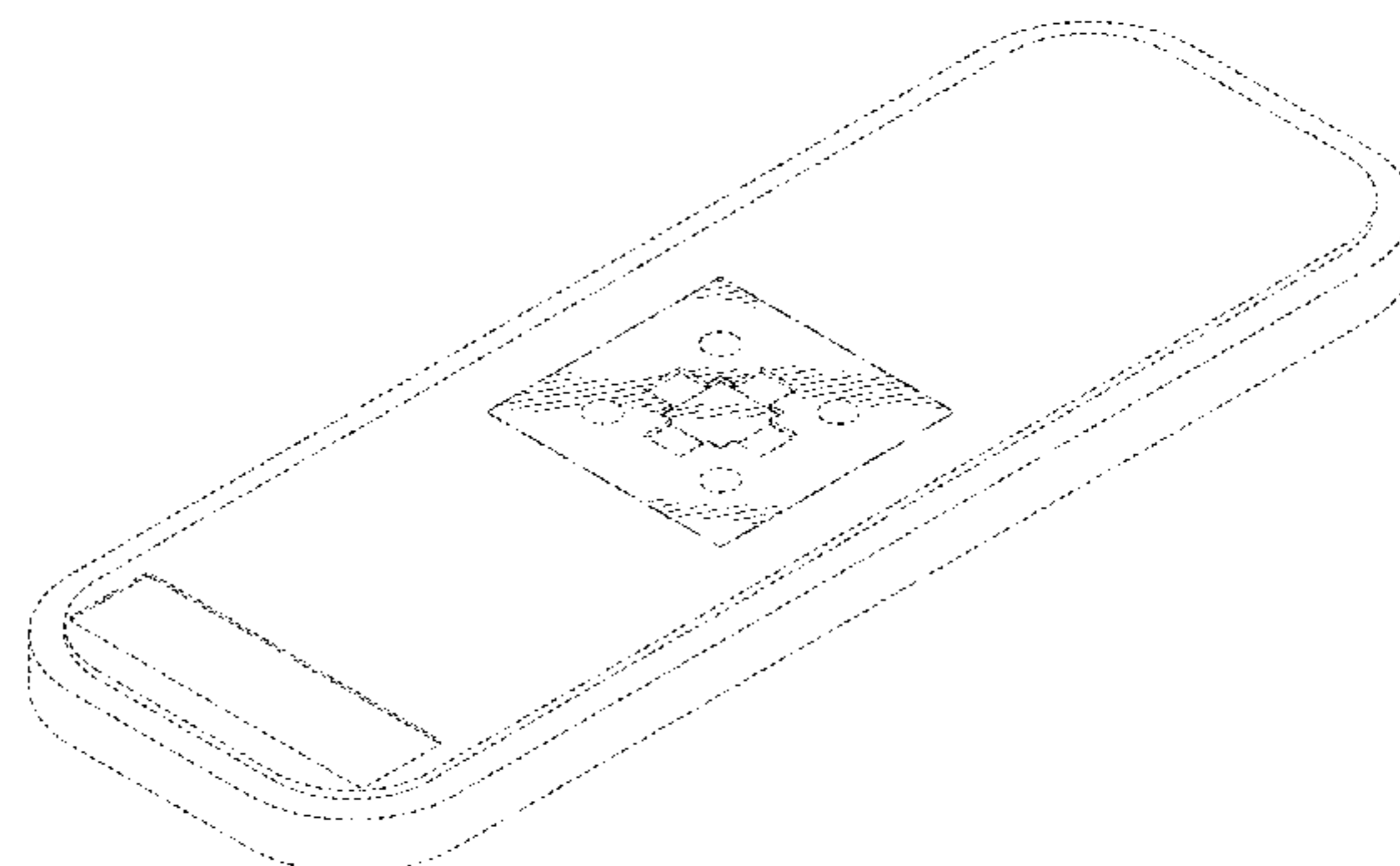
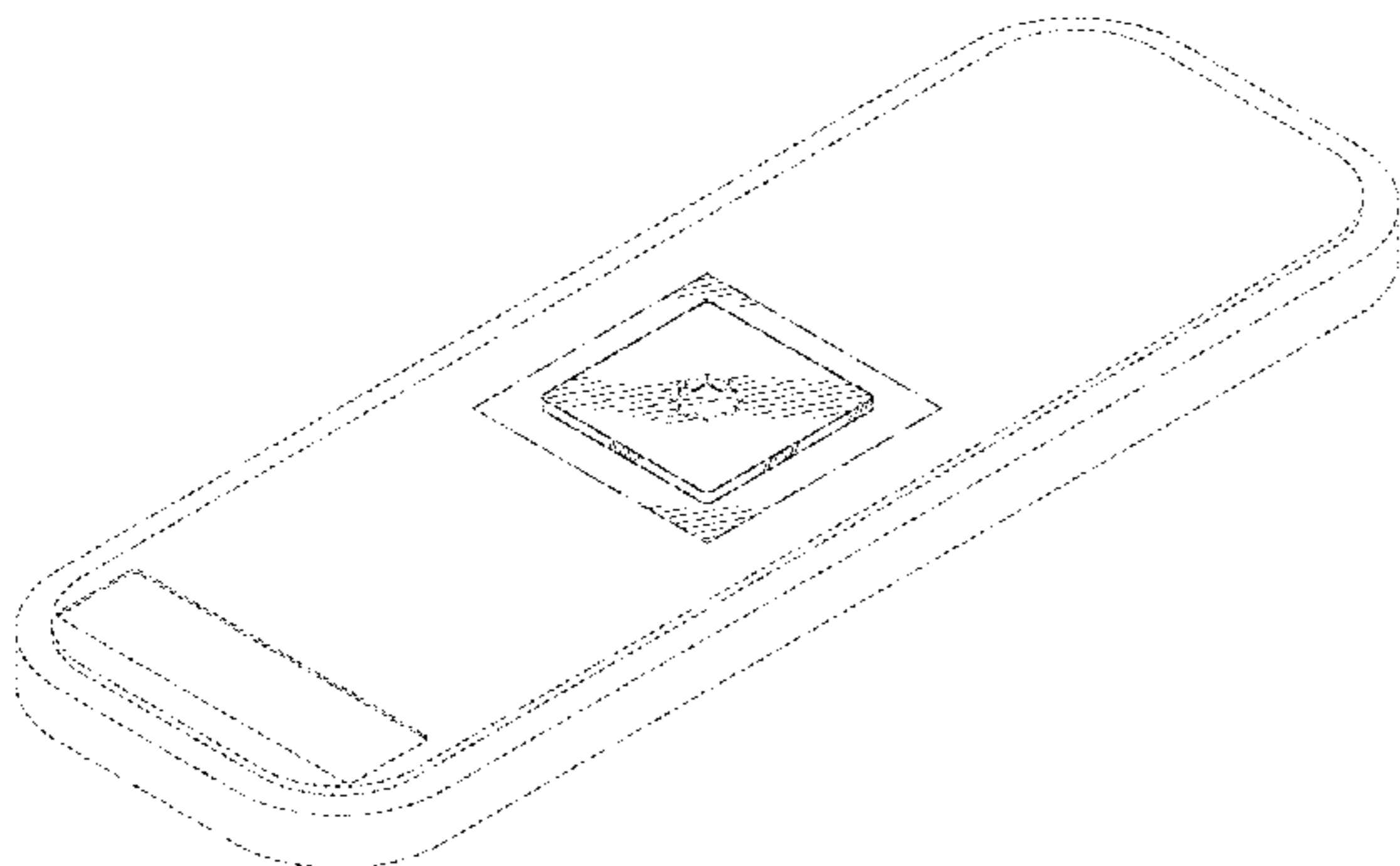
(56) **References Cited**

U.S. PATENT DOCUMENTS

4,761,381 A	8/1988	Blatt et al.	
D302,294 S	7/1989	Hillman	
D320,269 S	9/1991	Hammond	
D324,426 S	3/1992	Fan et al.	
D328,135 S	7/1992	Fan et al.	
D351,913 S	10/1994	Hieb et al.	
D366,938 S	2/1996	Shartle et al.	
D383,852 S	9/1997	Shartle et al.	
D395,708 S	6/1998	Shartle et al.	
D461,906 S	8/2002	Pham	
D467,348 S	12/2002	McMichael et al.	
D500,142 S	12/2004	Crisanti et al.	
D512,512 S	12/2005	Bell et al.	
D528,215 S	9/2006	Malmsater	
D530,826 S	10/2006	Rich et al.	
D531,321 S	10/2006	Godfrey et al.	
D540,953 S	4/2007	Ramel et al.	
D559,995 S	1/2008	Handique et al.	
D562,988 S *	2/2008	Pogorzelski	D24/224
7,338,760 B2 *	3/2008	Gong	B01L 3/5027 422/547
D598,126 S	8/2009	Alvarez-Icaza et al.	
D621,060 S	8/2010	Handique	
D636,893 S	4/2011	Nicholls et al.	
D639,976 S	6/2011	Francis et al.	
D639,977 S	6/2011	Francis et al.	
D640,389 S	6/2011	Francis et al.	
7,998,666 B2 *	8/2011	Stiene	A61B 5/1486 422/68.1
D669,191 S	10/2012	Handique	
8,330,951 B2	12/2012	Li et al.	
D676,145 S	2/2013	Kouge et al.	
D679,024 S	3/2013	Kouge et al.	
D692,578 S	10/2013	Kikuhara et al.	
D700,711 S	3/2014	Kikuhara et al.	
D702,364 S	4/2014	Iqbal et al.	
8,709,787 B2	4/2014	Handique	
8,895,311 B1 *	11/2014	Handique	B01J 19/0093 422/502
D733,313 S	6/2015	Kouge et al.	
D734,482 S	7/2015	Peterman et al.	
D738,526 S	9/2015	Huang et al.	
2001/0268630	11/2011	Williams et al.	

FOREIGN PATENT DOCUMENTS

WO WO-2013/062540 A1 5/2013



OTHER PUBLICATIONS

U.S. Appl. No. 29/477,934, Hamamatsu Photonics K.K.
U.S. Appl. No. 29/477,940, Hamamatsu Photonics K.K.
U.S. Appl. No. 29/477,946, Hamamatsu Photonics K.K.
U.S. Appl. No. 29/477,937, Hamamatsu Photonics K.K.
U.S. Appl. No. 29/477,957, Hamamatsu Photonics K.K.
Leaflet “rSERS™ Raman Enhancing Media,” Raman Systems, A
Wholly Owned Subsidiary of Agiltron, Inc., www.ramansystems.
com.
Notice of Allowance Issued Oct. 16, 2015 in Design U.S. Appl. No.
29/528,795.

* cited by examiner

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LLP

(57) **CLAIM**

The ornamental design for a substrate for spectroscopic
analysis, as shown and described.

DESCRIPTION

FIG. 1 is a front view of a substrate for spectroscopic analysis
of our new design.
FIG. 2 is a rear view of the substrate for spectroscopic analy-
sis of FIG. 1.
FIG. 3 is a top plan view of the substrate for spectroscopic
analysis of FIG. 1.
FIG. 4 is a bottom view of the substrate for spectroscopic
analysis of FIG. 1.

FIG. 5 is a right side view of the substrate for spectroscopic
analysis of FIG. 1.

FIG. 6 is a left side view of the substrate for spectroscopic
analysis of FIG. 1.

FIG. 7 is a perspective of the substrate for spectroscopic
analysis of FIG. 1.

FIG. 8 is a top plan view without the cover part of the substrate
for spectroscopic analysis of FIG. 1.

FIG. 9 is a perspective view without the cover part of the
substrate for spectroscopic analysis of FIG. 1.

FIG. 10 is a sectional view taken along the line 10-10 of the
substrate for spectroscopic analysis of FIG. 3.

FIG. 11 is a sectional view taken along the line 11-11 of the
substrate for spectroscopic analysis of FIG. 1.

FIG. 12 is a sectional view taken along the line 12-12 of the
substrate for spectroscopic analysis of FIG. 8.

FIG. 13 is an enlarged sectional view taken along the line
13-13 of the substrate for spectroscopic analysis of FIG. 10;
and,

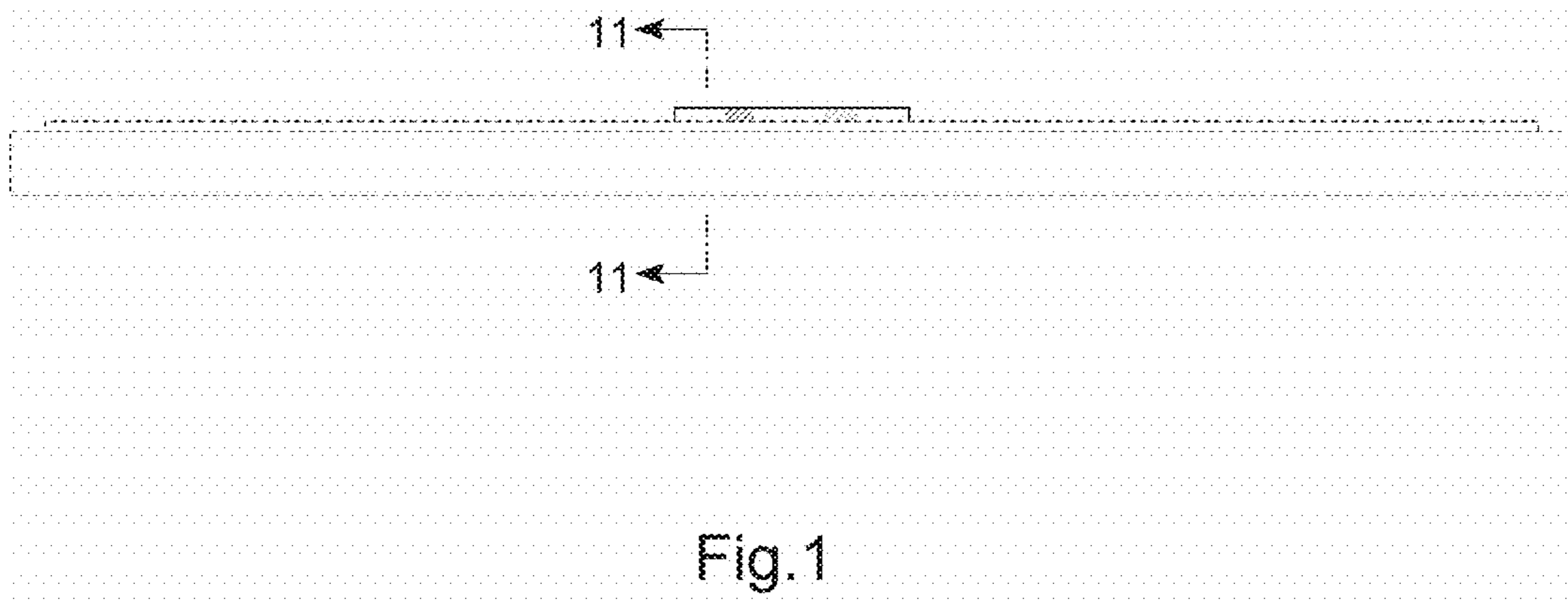
FIG. 14 is a reference sectional view taken along the line
10-10 of the substrate for spectroscopic analysis of FIG. 3 in
use, wherein the element is inserted in the concave part for
element and the glass plate is set above the cover part.

The features shown in dotted lines depict environmental sub-
ject matter only and form no part of the claimed design.

The broken lines having alternating long and short segments
define bounds of the claimed design and form no part thereof.

The whole of the substrate for spectroscopic analysis is trans-
parent.

1 Claim, 14 Drawing Sheets



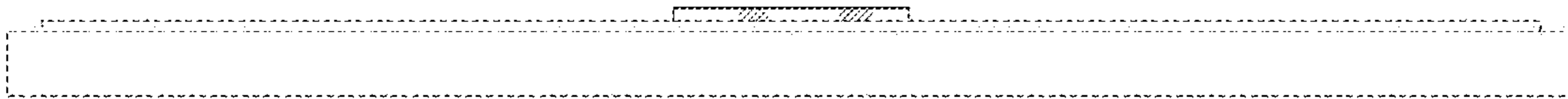


Fig.2

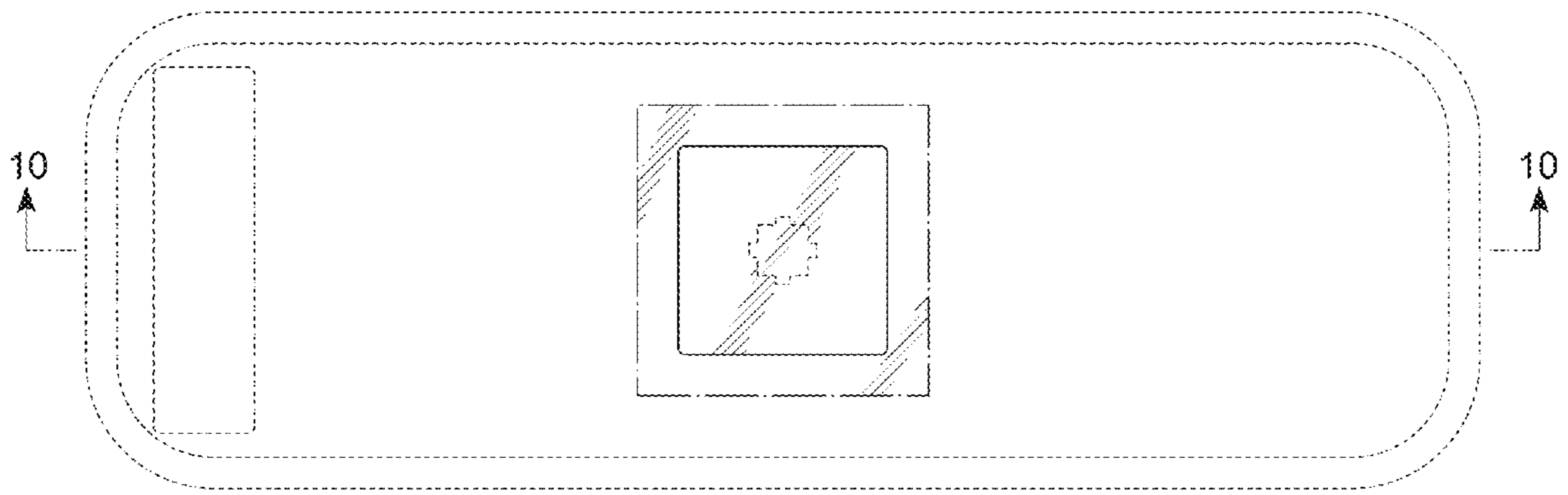


Fig.3

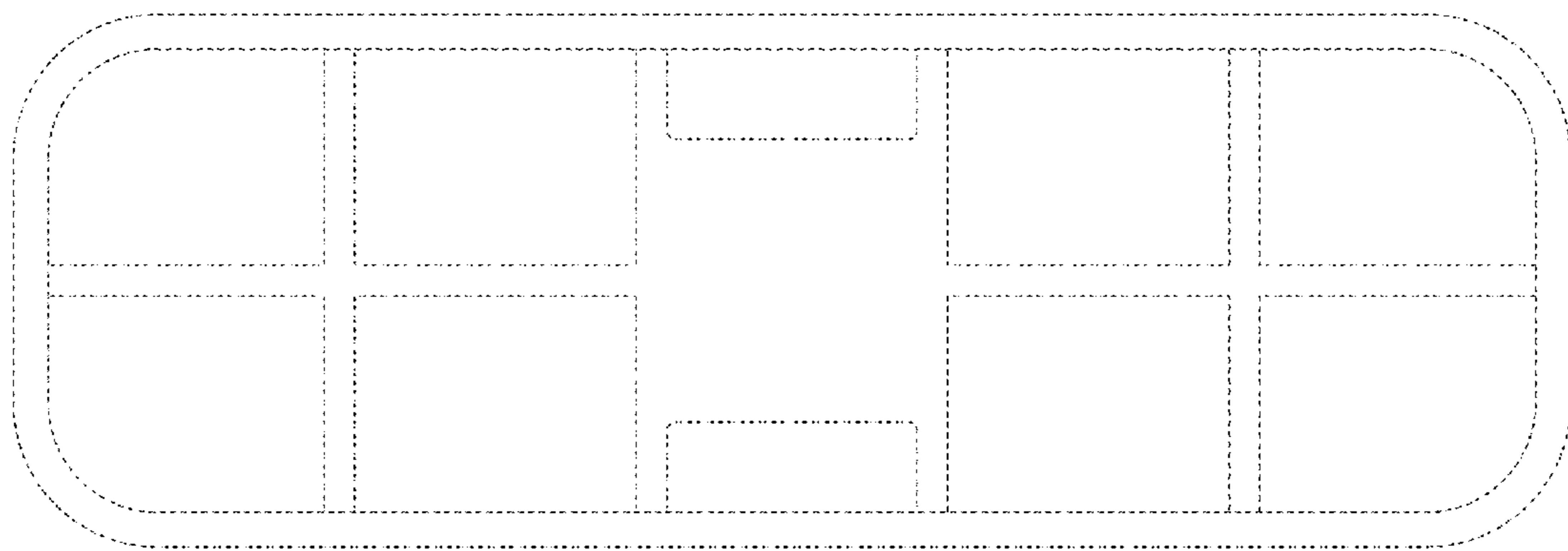


Fig.4

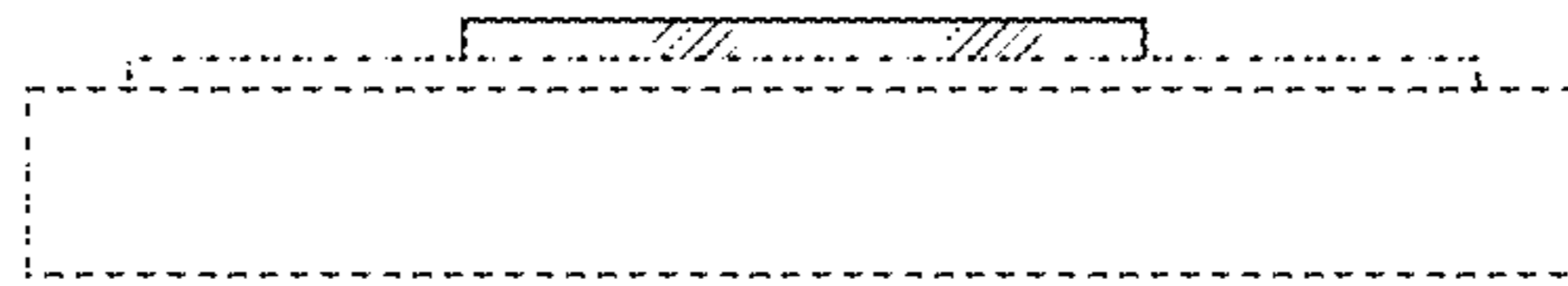


Fig.5

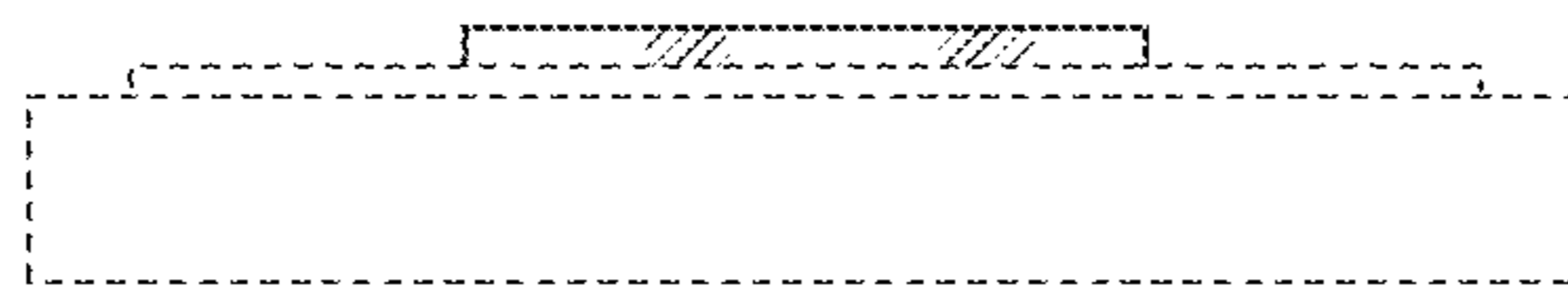


Fig.6

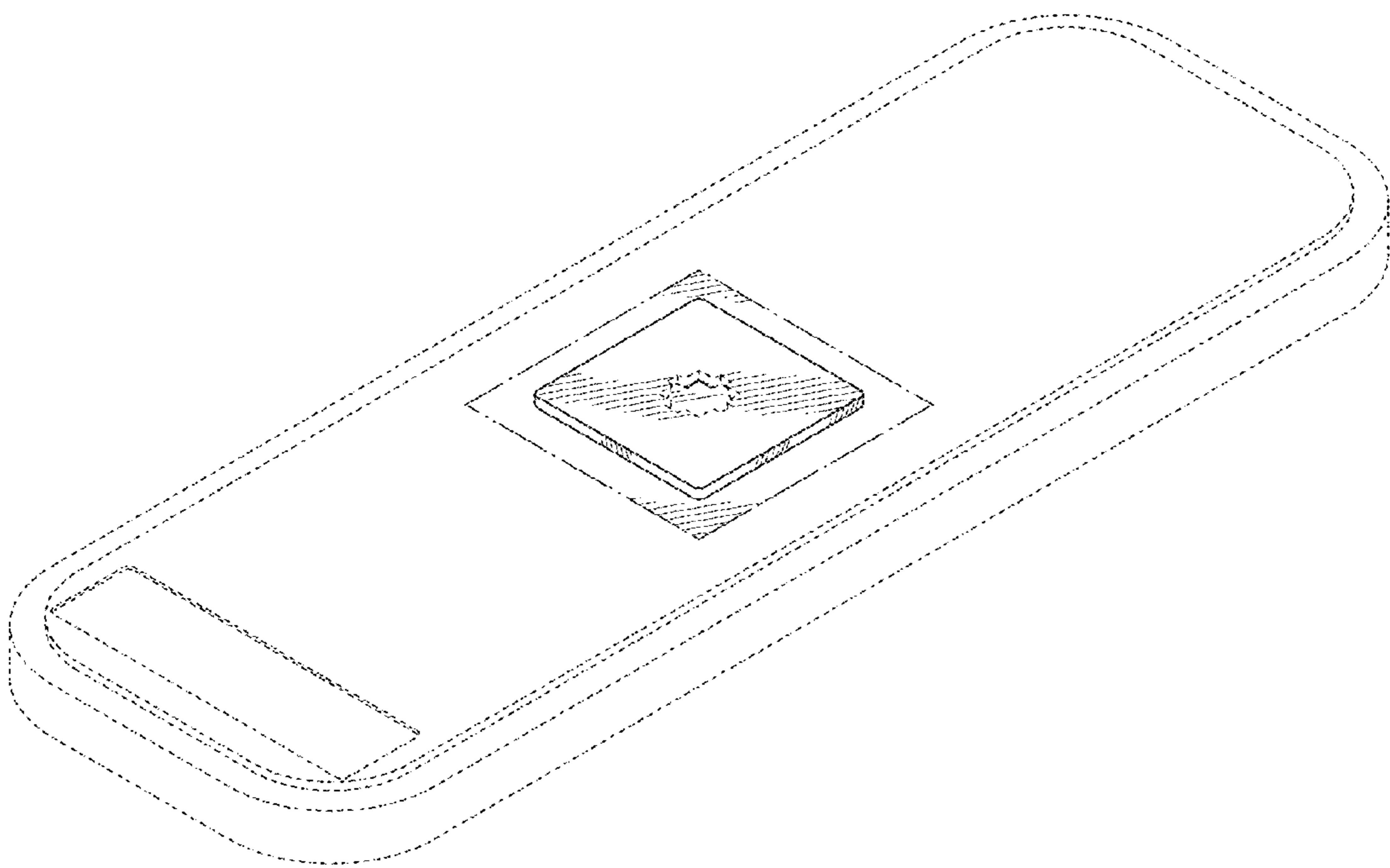


Fig.7

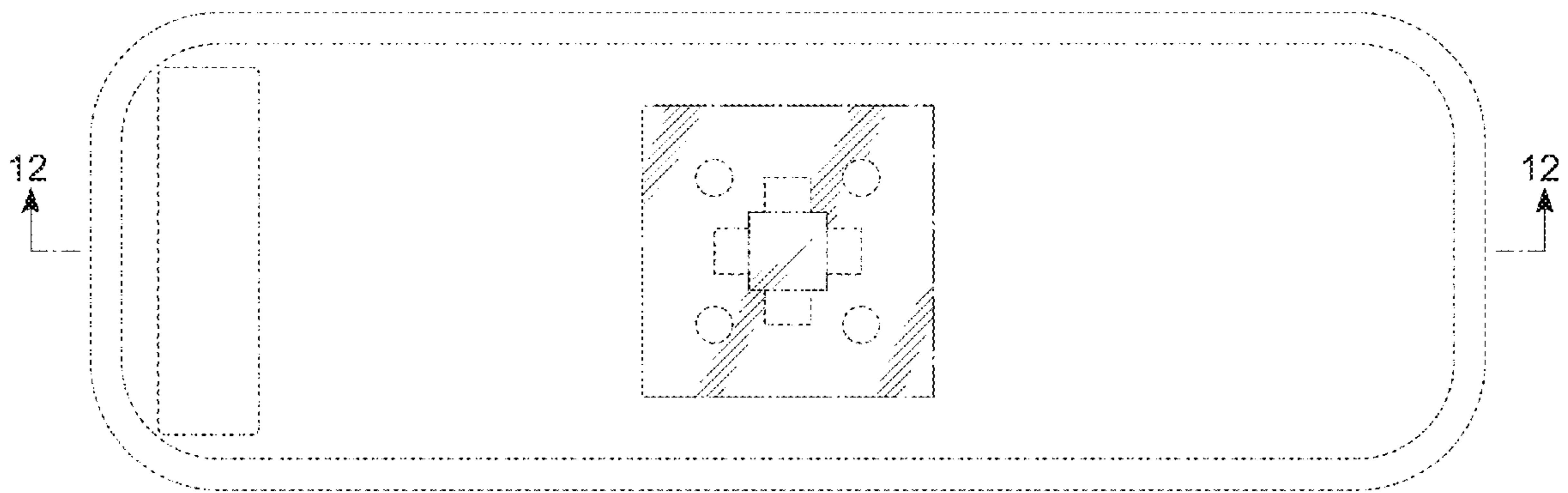


Fig.8

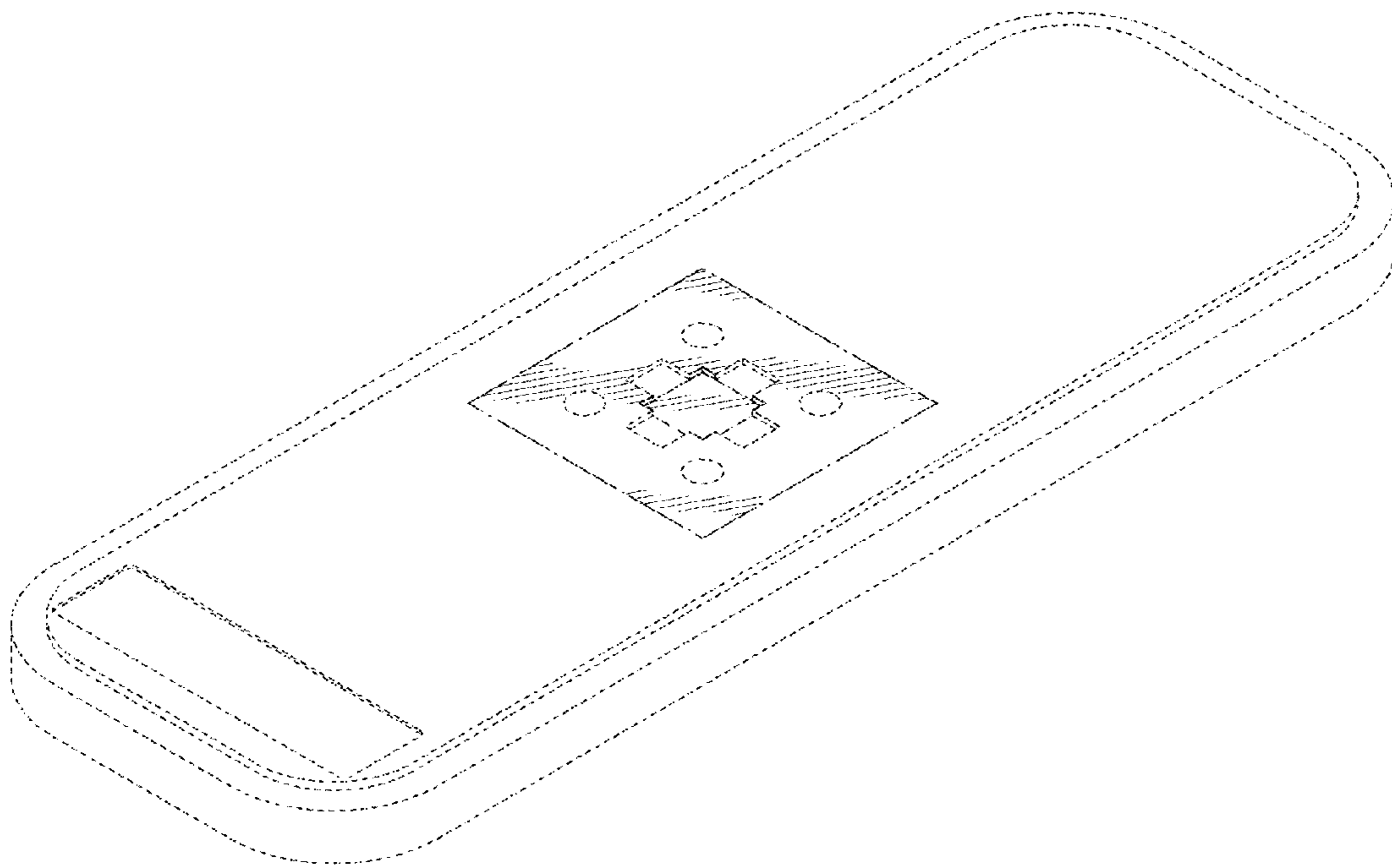


Fig.9

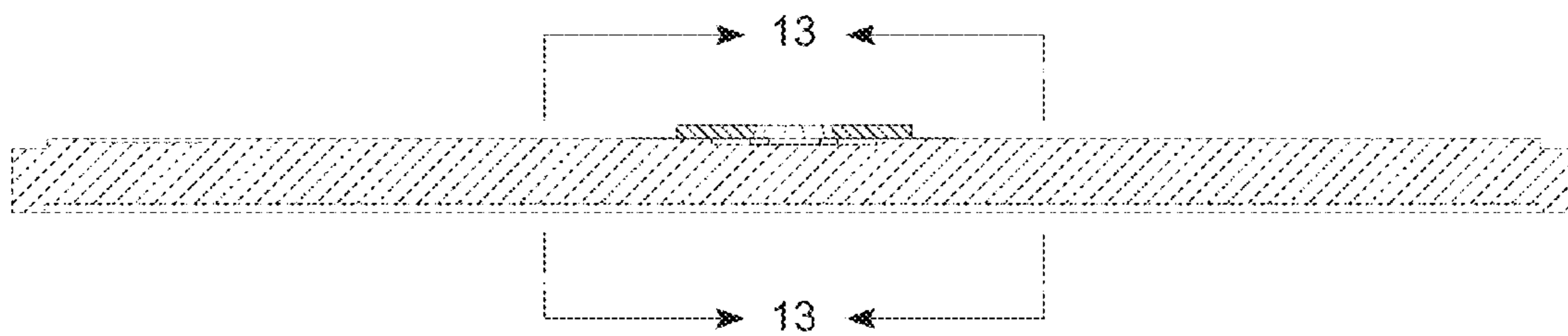


Fig.10

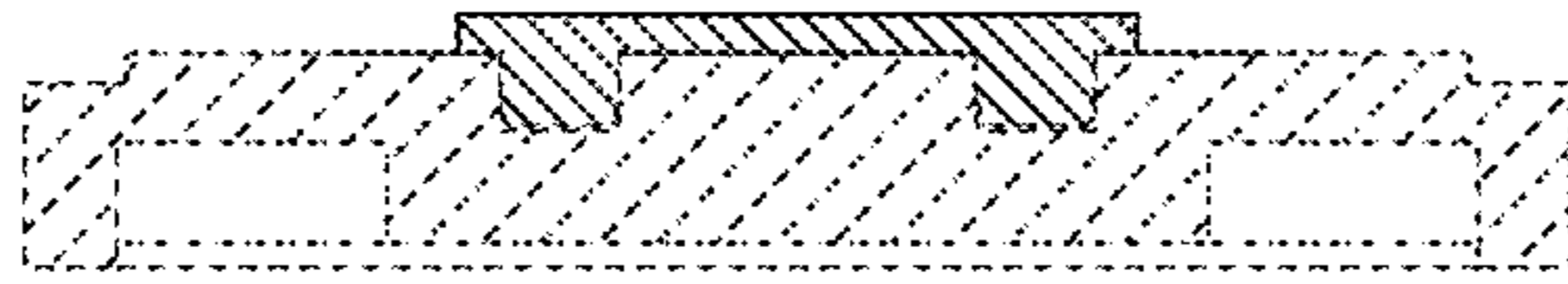


Fig. 11

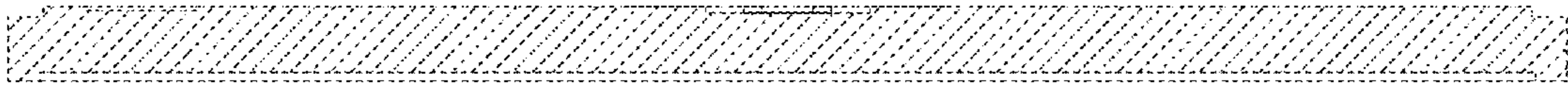


Fig.12

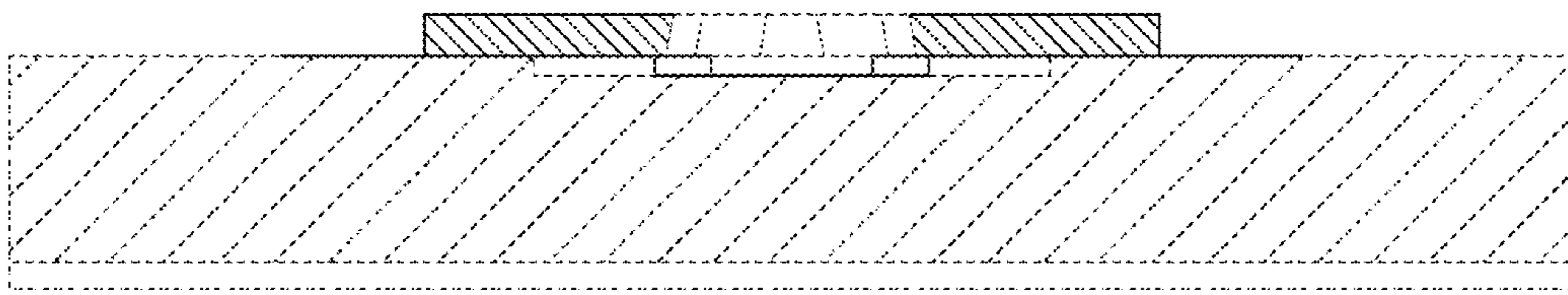


Fig.13

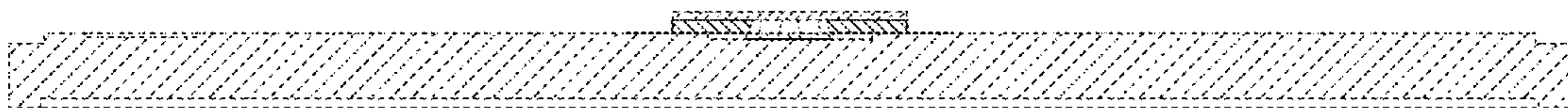


Fig.14