



(12) **EUROPEAN PATENT APPLICATION**
published in accordance with Art. 153(4) EPC

(43) Date of publication:
21.10.2009 Bulletin 2009/43

(51) Int Cl.:
B42D 11/00 (2006.01) G09F 3/02 (2006.01)
G09F 3/10 (2006.01)

(21) Application number: **08704012.7**

(86) International application number:
PCT/JP2008/051203

(22) Date of filing: **28.01.2008**

(87) International publication number:
WO 2008/096624 (14.08.2008 Gazette 2008/33)

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT
RO SE SI SK TR

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(30) Priority: **07.02.2007 JP 2007027896**

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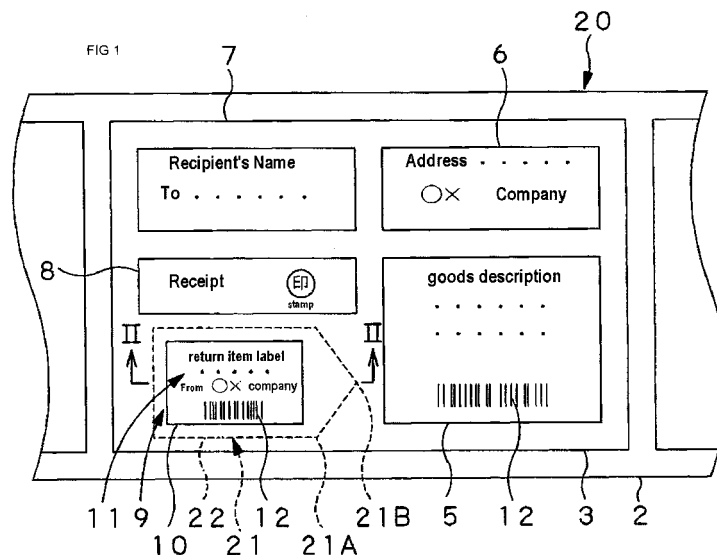
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(54) **LABEL FOR DISTRIBUTION SLIP**

(57) [Problem] To provide a delivery slip label that allows an automatic peeling and automatic application system in a delivery center or the like to operate smoothly by preventing the mount sheet main body 2 from being torn when peeling a label main body 3 off from the mount sheet main body 2 together with a re-peeling mount sheet region 22.

[Solution] Attention is drawn to the fact that the shape of the re-peeling mount sheet region 22 formed in the mount sheet main body 2 is made into a tapered shape. The re-peeling mount sheet region 22 is formed separately in the mount sheet main body 2. The re-applying label

region 10 is formed separately in the label main body 3 so as to have a smaller area than the re-peeling mount sheet region 22. The label main body 3 is configured to be capable of being peeled off from the mount sheet main body 2 together with the re-applying label region 10 while the re-peeling mount sheet region 22 of the mount sheet main body 2 is kept removably adhered to a reverse face of the label main body 3 and be adherable to a delivery item. The re-peeling mount sheet region 22 is configured to have a tapered shape toward an upstream side of the transfer direction of the delivery slip label in an automatic peeling apparatus in which the delivery slip label is to be loaded.



Description

[Technical Field]

[0001] The present invention relates to a delivery slip label, and more particularly to a delivery slip label that is configured to be adherable to a delivery item and in which a return item label portion (re-applying label region) is formed.

[Background Art]

[0002] A delivery slip label 1 of this type that has been proposed conventionally is described with reference to Figs. 6 through 11.

Fig. 6 is a plan view of the delivery slip label 1, and Fig. 7 is an enlarged cross-sectional view taken along line VII-VII in Fig. 6. The delivery slip label 1 is used, for example, when delivering a package according to an order from an orderer (recipient). The delivery slip label 1 has a belt-shaped mount sheet main body 2 and a plurality of label main bodies 3 removably adhered to this mount sheet main body 2.

Specifically, the label main body 3 has an adhesive agent layer 4 on the reverse face. The reverse face is removably adhered to the obverse face of the mount sheet main body 2. The label main body 3 is configured to be adherable to the package (delivery item) by peeling from the mount sheet main body 2.

[0003] On the obverse face of the label main body 3, a goods description field 5 for the goods to be delivered, a sender field 6, an addressee field 7, and a receipt field 8, for example, are formed in accordance with the delivery system. In addition, a re-applying label region 10 is formed separably from the label main body 3 by a label separating cutting line 9 in a closed rectangular shape so that the re-applying label region 10 can be utilized as a return item label.

Specifically, a note such as "Please affix this 'return item label' on the package to be returned when you return items." is printed within a note portion 11 of the re-applying label region 10. At the same time, a goods specifying bar code 12 that has the same content as a goods specifying bar code 12 in the goods description field 5 is printed within the re-applying label region 10.

[0004] A re-peeling mount sheet region 14 is formed in a portion of the mount sheet main body 2 that is more inward than the outer circumferential edge portion of the label main body 3, so as to be separable from the mount sheet main body 2 by the mount sheet separating cutting line 13 in a closed rectangular shape. At the same time, in the label main body 3, the re-applying label region 10 is formed in an upper layer portion of the re-peeling mount sheet region 14, so as to have a smaller area than the re-peeling mount sheet region 14.

[0005] Fig. 8 is an enlarged cross-sectional view for illustrating an operation of loading the delivery slip label 1 into an automatic peeling apparatus 15 and of auto-

matically peeling the label main body 3 from the mount sheet main body 2 mechanically.

The automatic peeling apparatus 15 has a printing means (not shown), as needed, onto the label main body 3. The label main body 3 is configured to be automatically peelable from the mount sheet main body 2 together with the re-applying label region 10, which is in the same plane, by turning only the mount sheet main body 2 at a portion of the peeling plate 16 and pulling it toward the downstream side, while the re-peeling mount sheet region 14 of the mount sheet main body 2 is kept removably adhered to the reverse face of the label main body 3.

[0006] Fig. 9 is a cross-sectional view illustrating how the label main body 3 and the re-applying label region 10 that have been peeled off are applied, along with the re-peeling mount sheet region 14, to a delivery item M. The label main body 3 is delivered to a delivery destination (addressee) while it is applied to the delivery item M as a delivery slip.

[0007] Fig. 10 is a cross-sectional view for illustrating an operation of re-peeling the re-applying label region 10 portion from the mount sheet main body 2 (re-peeling mount sheet region 14), from the condition in which the label main body 3 has been applied to the delivery item M together with the re-applying label region 10 and the re-peeling mount sheet region 14. Fig. 11 is a perspective view illustrating how the re-applying label region 10 is applied to another location from the label main body 3 that has been applied to the delivery item M.

As illustrated in Fig. 11, the re-applying label region 10 of the label main body 3 is peeled off from the re-peeling mount sheet region 14 of the mount sheet main body 2 and is applied to another location than the label main body 3 on the delivery item M. This makes it possible to clearly show that the delivery item M to which the re-applying label region 10 (return item label) is applied is the one that has been returned.

[0008] The delivery slip label 1 with such a configuration has the following problem. Specifically, as shown in Fig. 8, stress concentration in the transfer direction occurs in an upstream side corner portion 13A of the mount sheet separating cutting line 13 for forming the re-peeling mount sheet region 14 when peeling the label main body 3 from the mount sheet main body 2 together with the re-peeling mount sheet region 14 by a mechanical operation. With the pulling action of the mount sheet main body 2 toward the downstream side, the mount sheet main body 2 is torn at the peeling plate 16 from the upstream side corner portion 13A toward the upstream side.

Thus, there is a problem that a trouble occurs in the operation of the automatic application system for delivery slips in a delivery center or the like.

[0009]

[Patent Citation 1] JP-A-7-40476

[Disclosure of the Invention]

[Problems that the Invention is to Solve]

[0010] The invention has been accomplished in view of the foregoing problems. It is an object of the invention to provide a delivery slip label that allows the automatic peeling and automatic application system in a delivery center or the like to operate smoothly.

[0011] It is also an object of the invention to provide a delivery slip label that is configured to prevent the mount sheet main body from being torn when a label main body along with a re-peeling mount sheet region is peeled off from a mount sheet main body.

[0012] It is also an object of the invention to provide a delivery slip label that is configured to prevent stress from concentrating in a particular location (for example, in an upstream side corner portion of a mount sheet separating cutting line) of the mount sheet main body when peeling a label main body at a peeling plate of an automatic peeling apparatus.

[Means for Solving the Problems]

[0013] Accordingly, the invention focuses on the fact that the shape of the re-peeling mount sheet region formed in the mount sheet main body is configured to be in a tapered shape toward an upstream side of a transfer direction of the delivery slip label. Thus, the invention provides a delivery slip label comprising: a belt-shaped mount sheet main body; a label main body, a reverse face of which being removably adhered to an obverse face of the mount sheet main body, and the label main body configured to be capable of being peeled off from the mount sheet main body and adherable to a delivery item, the delivery slip label being **characterized in that:** in the mount sheet main body, a re-peeling mount sheet region is formed separably in a portion thereof that is more inward than an outer edge portion of the label main body, and in the label main body, a re-applying label region is formed separably in an upper layer portion of the re-peeling mount sheet region so as to have a smaller area than the re-peeling mount sheet region; the label main body is configured to be capable of being peeled off from the mount sheet main body together with the re-applying label region while the re-peeling mount sheet region of the mount sheet main body is kept removably adhered to the reverse face of the label main body and to be adherable to the delivery item; the re-applying label region of the label main body is configured to be capable of being peeled off from the re-peeling mount sheet region of the mount sheet main body and adherable to another location; and the re-peeling mount sheet region is configured to have a tapered shape toward an upstream side of a transfer direction of the delivery slip label in an automatic peeling apparatus in which the delivery slip label is to be loaded.

[0014] The tapered shape may be a baseball home

plate shape.

[0015] The tapered shape may be a triangular shape.

[0016] The tapered shape may be a U shape.

5 [Advantageous Effects of the Invention]

[0017] In the delivery slip label according to the invention, the shape of the re-peeling mount sheet region formed in the mount sheet main body is configured to be in a tapered shape toward the upstream side of the transfer direction of the delivery slip label. Therefore, even when only the mount sheet main body is pulled so as to turn at a peeling plate of an automatic peeling apparatus, stress does not concentrate in a tearing direction of the mount sheet separating cutting line portion, so it is possible to prevent the mount sheet main body from being torn in a portion of the re-peeling mount sheet region.

[Best Mode for Carrying Out the Invention]

[0018] In the invention, the shape of the re-peeling mount sheet region formed in the mount sheet main body is configured to have a tapered shape toward an upstream side of a transfer direction of the delivery slip label, such as a baseball home plate shape. Thus, the invention achieved a delivery slip label that makes it possible to contribute to improvements in process efficiency when loaded into an automatic peeling or automatic application system.

[Embodiments]

[0019] Next, a delivery slip label 20 according to an embodiment of the invention will be described with reference to Figs. 1 through 3. The same parts that are illustrated in Figs. 6 through 11 are designated by the same reference numerals, and the detailed description thereof will be omitted.

Fig. 1 is a plan view of the delivery slip label 20. Fig. 2 is an enlarged cross-sectional view taken along line II-II in Fig. 1. Like the previously-described delivery slip label 1 (Fig. 6), in the delivery slip label 20, a label main body 3 is removably adhered to a mount sheet main body 2. In the label main body 3, a re-applying label region 10 is formed along with a goods description field 5, a sender field 6, an addressee field 7, and a receipt field 8.

[0020] In the mount sheet main body 2, which is located on a lower layer side of the re-applying label region 10, a re-peeling mount sheet region 22 is formed by a mount sheet separating cutting line 21 in a similar manner to the foregoing re-peeling mount sheet region 14 (Fig. 6) formed by the mount sheet separating cutting line 13. The shapes of the mount sheet separating cutting line 21 and the re-peeling mount sheet region 22 are different from those of the mount sheet separating cutting line 13 and the re-peeling mount sheet region 14.

Specifically, the mount sheet separating cutting line 21 and the re-peeling mount sheet region 22 have a tapered

shape toward an upstream side of the transfer direction in the automatic peeling apparatus 15 in which the delivery slip label 20 is to be loaded (Fig. 8).

For example, this tapered shape is configured to be a baseball home plate shape. More specifically, the mount sheet separating cutting line 21 forms parallel lines along the transfer direction of the re-peeling mount sheet region 22 at a pair of left and right change points 21A to form a tapered shape, and intersects at a convergent point 21B, which is at a rearmost point.

[0021] With the delivery slip label 20 of such a configuration, the mount sheet main body 2 is prevented from being torn when the label main body 3 with the re-peeling mount sheet region 22 is peeled off from the mount sheet main body 2.

More specifically, Fig. 3 is, like Fig. 8, an enlarged cross-sectional view for illustrating an operation of loading the delivery slip label 20 into an automatic peeling apparatus 15 and of automatically peeling the label main body 3 from the mount sheet main body 2 mechanically.

As illustrated in Fig. 3, stress does not concentrate at the change points 21A and the convergent point 21B of the mount sheet separating cutting line 21 even when only the mount sheet main body 2 is turned by the peeling plate 16 and pulled toward the downstream side. Therefore, the label main body 3 and the re-applying label region 10, together with the re-peeling mount sheet region 22, can be peeled off from the mount sheet main body 2 smoothly.

Thus, when the delivery slip label 20 is loaded into the automatic peeling apparatus 15 in an automatic peeling system or an automatic application system, automatic peeling and applying operations of the label main body 3 can be performed reliably without causing any trouble in the overall system.

[0022] It should be noted that in the invention, the tapered shape of the re-peeling mount sheet region 22 may be designed as appropriate in accordance with the overall label main body 3, its design, the shape of the re-applying label region 10, and the like.

For example, Fig. 4 is a plan view illustrating a primary portion of a first modified example of the tapered shape. The tapered shape of a re-peeling mount sheet region 23 is configured to be in a triangular shape (preferably a isosceles triangular shape).

The re-peeling mount sheet region 23 with such a shape also makes automatic peeling possible without causing a tear in the mount sheet main body 2 at a portion of the peeling plate 16.

[0023] Fig. 5 is a plan view illustrating a primary portion of a second modified example of the tapered shape. The tapered shape of a re-peeling mount sheet region 24 is configured to be in a U shape.

The re-peeling mount sheet region 24 with such a shape also makes automatic peeling possible without causing a tear in the mount sheet main body 2 at a portion of the peeling plate 16.

[Brief Description of Drawings]

[0024]

[Fig. 1]

Fig. 1 is a plan view of a delivery slip label 20 according to an embodiment of the invention.

[Fig. 2]

Fig. 2 is an enlarged cross-sectional view taken along line II-II in Fig. 1.

[Fig. 3]

Fig. 3 is an enlarged cross-sectional view for illustrating an operation of loading the delivery slip label 20 into an automatic peeling apparatus 15 and automatically peeling a label main body 3 from a mount sheet main body 2 mechanically.

[Fig. 4]

Fig. 4 is a plan view illustrating a primary portion of a first modified example of a tapered shape.

[Fig. 5]

Fig. 5 is a plan view illustrating a primary portion of a second modified example of the tapered shape.

[Fig. 6]

Fig. 6 is a plan view of a conventional delivery slip label 1.

[Fig. 7]

Fig. 7 is an enlarged cross-sectional view taken along line VII-VII in Fig. 6.

[Fig. 8]

Fig. 8 is an enlarged cross-sectional view for illustrating an operation of loading the delivery slip label 1 into an automatic peeling apparatus 15 and automatically peeling a label main body 3 from a mount sheet main body 2 mechanically.

[Fig. 9]

Fig. 9 is a cross-sectional view illustrating how the label main body 3 and a re-applying label region 10 that have been peeled off are applied, along with a re-peeling mount sheet region 14, to a delivery item M.

[Fig. 10]

Fig. 10 is a cross-sectional view for illustrating an operation of re-peeling the re-applying label region 10 portion from the mount sheet main body 2 (re-peeling mount sheet region 14), from the condition in which the label main body 3 has been applied to the delivery item M together with the re-applying label region 10 and the re-peeling mount sheet region 14.

[Fig. 11]

Fig. 11 is a perspective view illustrating how the re-applying label region 10 is applied to another location from the label main body 3 that has been applied to the delivery item M.

[Description of Reference Numerals and Signs]

[0025]

1	delivery slip label (conventional, Fig. 6)	
2	mount sheet main body	
3	label main body	
4	adhesive agent layer	
5	goods description field	5
6	sender field	
7	addressee field	
8	receipt field	
9	label separating cutting line	
10	re-applying label region	10
11	note portion of the re-applying label region 10	
12	goods specifying bar code	
13	shape mount sheet separating cutting line in a rectangular shape	
13A	upstream side corner portion of the mount sheet separating cutting line 13	15
14	re-peeling mount sheet region	
15	automatic peeling apparatus (Fig. 8)	
16	peeling plate in the automatic peeling apparatus 15	20
20	delivery slip label (embodiment, Fig. 1)	
21	mount sheet separating cutting line in a tapered shape	
21A	change point of the mount sheet separating cutting line 21	25
21B	convergent point of the mount sheet separating cutting line 21	
22	re-peeling mount sheet region	
23	re-peeling mount sheet region (first modified example, Fig. 4)	30
24	re-peeling mount sheet region (second modified example, Fig. 5)	
M	delivery item	
		35

Claims

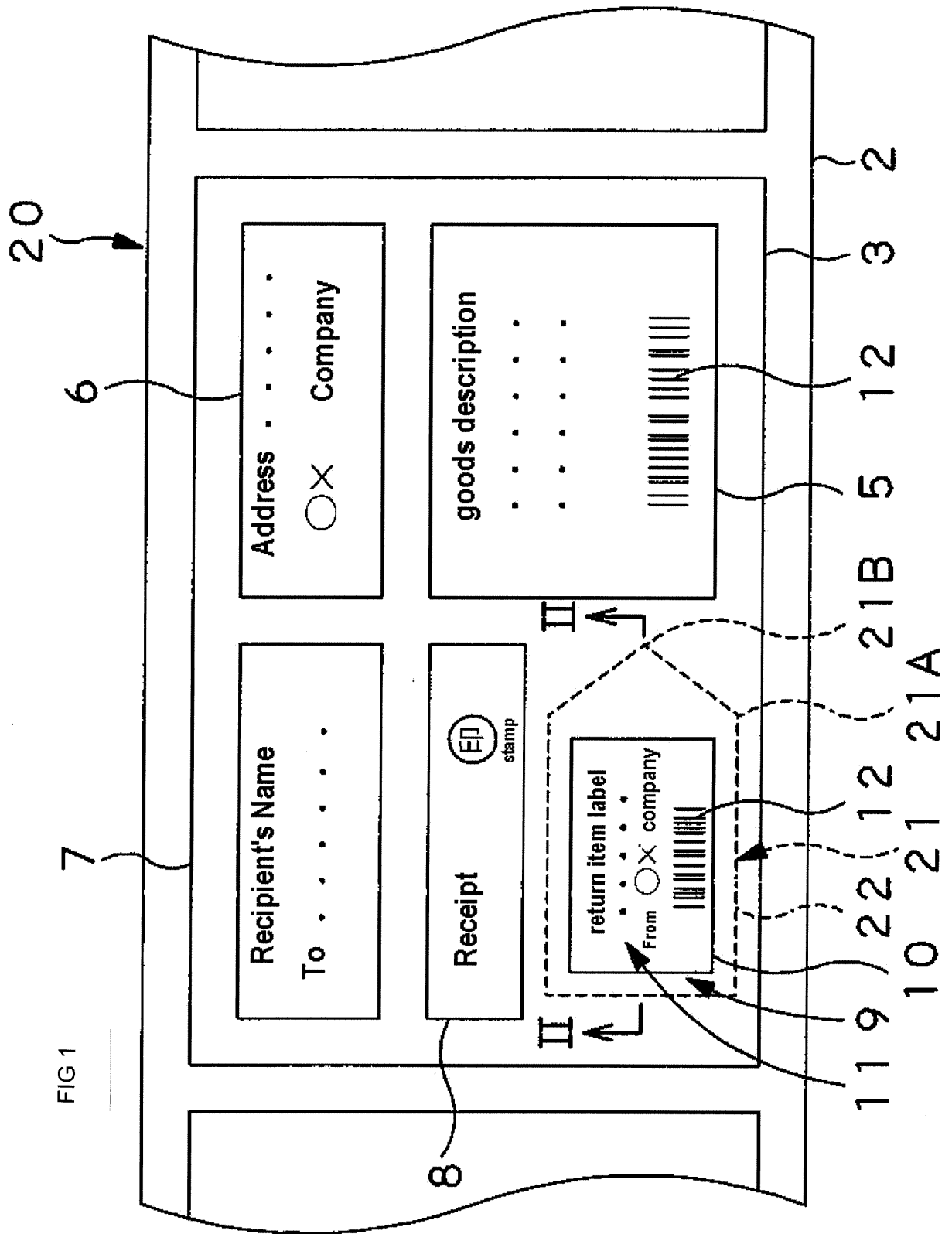
1. A delivery slip label comprising:

a belt-shaped mount sheet main body; 40
a label main body, a reverse face of which being removably adhered to an obverse face of the mount sheet main body, and the label main body configured to be capable of being peeled off from the mount sheet main body and adherable to a delivery item, the delivery slip label being **characterized in that:** 45

in the mount sheet main body, a re-peeling mount sheet region is formed separably in a portion thereof that is more inward than an outer edge portion of the label main body, and in the label main body, a re-applying label region is formed separably in an upper layer portion of the re-peeling mount sheet region so as to have a smaller area than the re-peeling mount sheet region; 50 55

the label main body is configured to be capable of being peeled off from the mount sheet main body together with the re-applying label region while the re-peeling mount sheet region of the mount sheet main body is kept removably adhered to the reverse face of the label main body and to be adherable to the delivery item; the re-applying label region of the label main body is configured to be capable of being peeled off from the re-peeling mount sheet region of the mount sheet main body and adherable to another location; and the re-peeling mount sheet region is configured to have a tapered shape toward an upstream side of a transfer direction of the delivery slip label in an automatic peeling apparatus in which the delivery slip label is to be loaded.

2. The delivery slip label as set forth in claim 1, **characterized in that** the tapered shape is a baseball home plate shape.
3. The delivery slip label as set forth in claim 1, **characterized in that** the tapered shape is a triangular shape.
4. The delivery slip label as set forth in claim 1, **characterized in that** the tapered shape is a U shape.



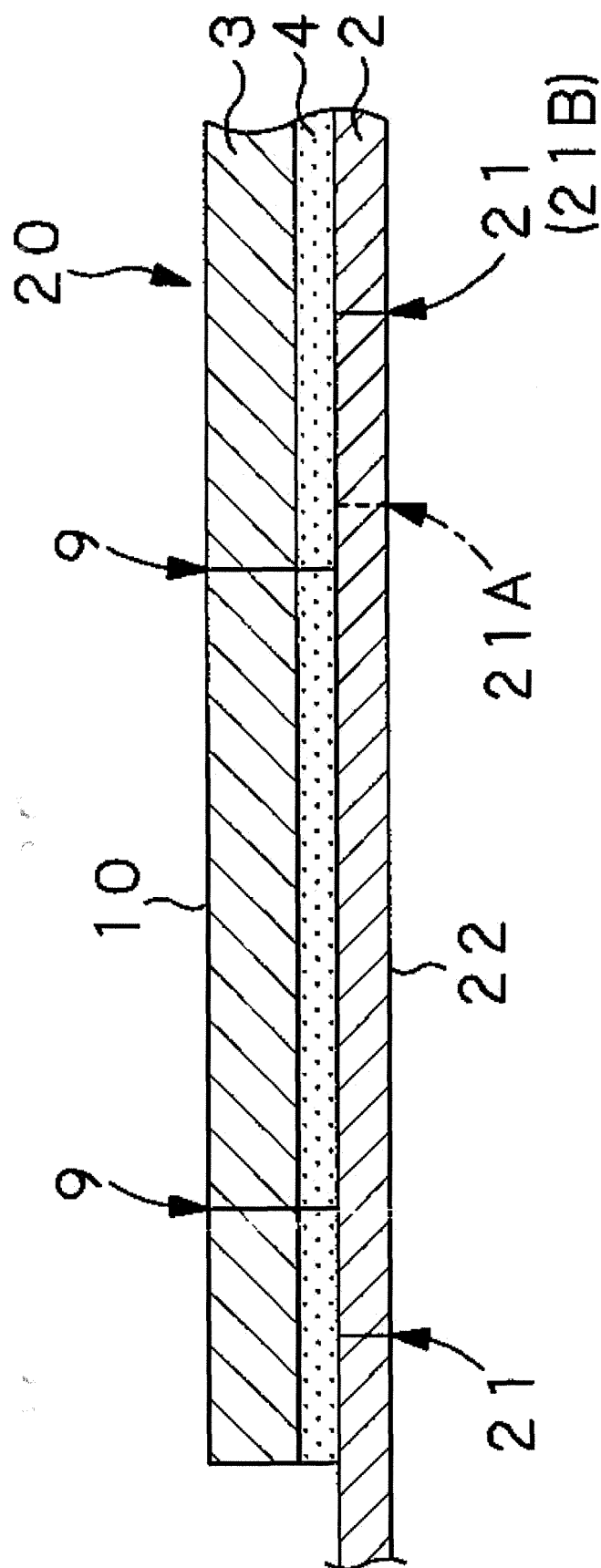
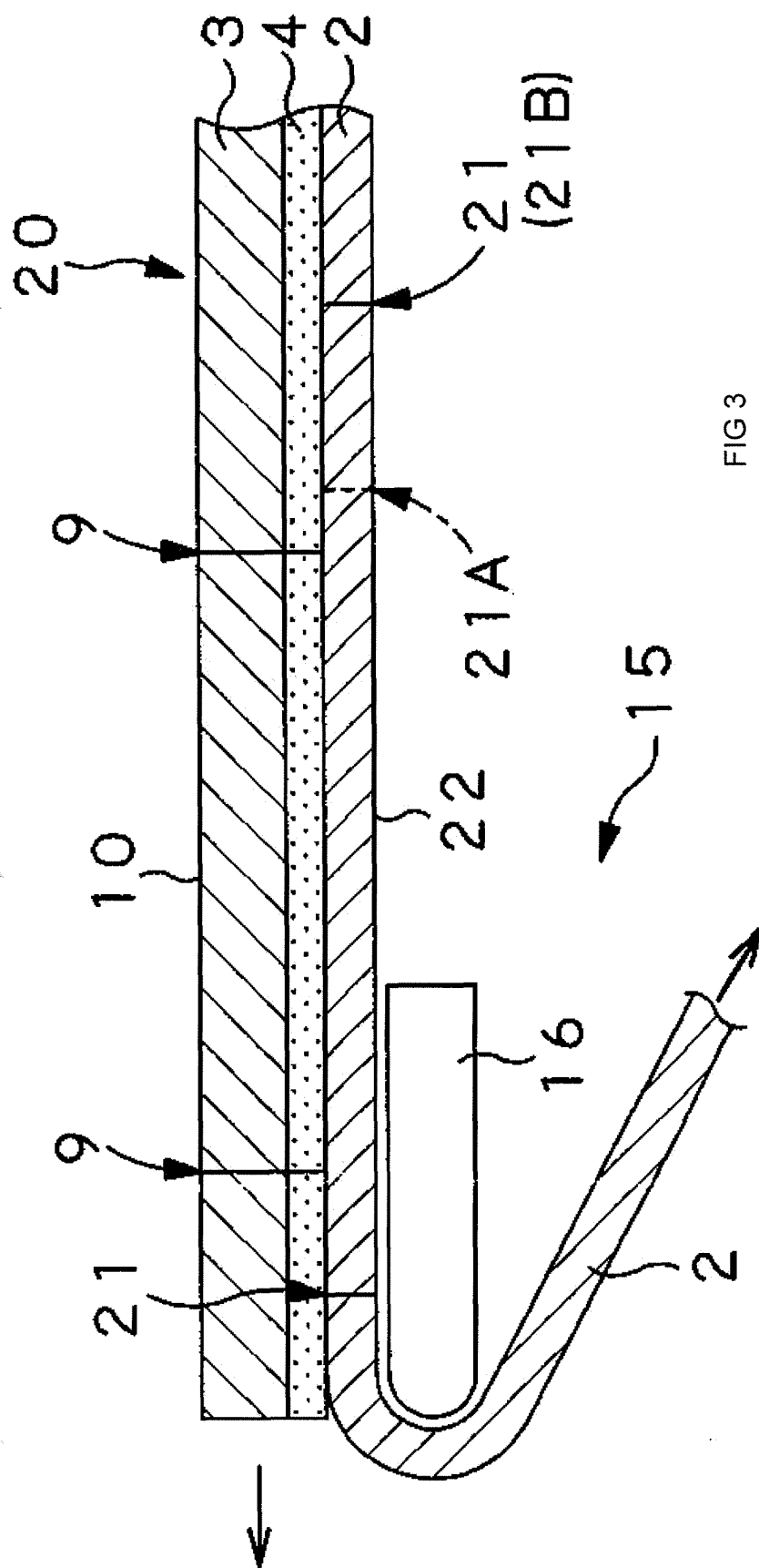


FIG 2



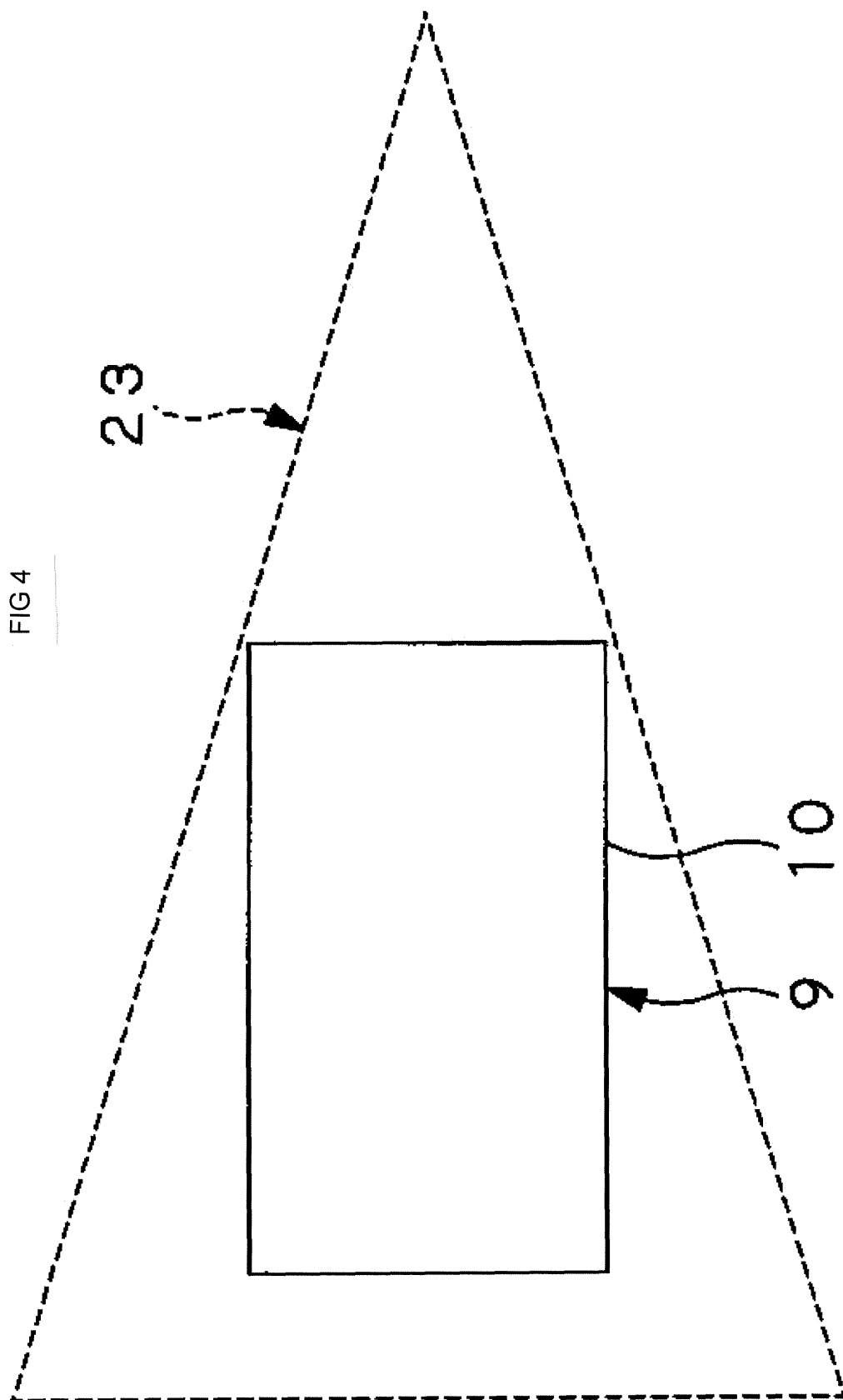
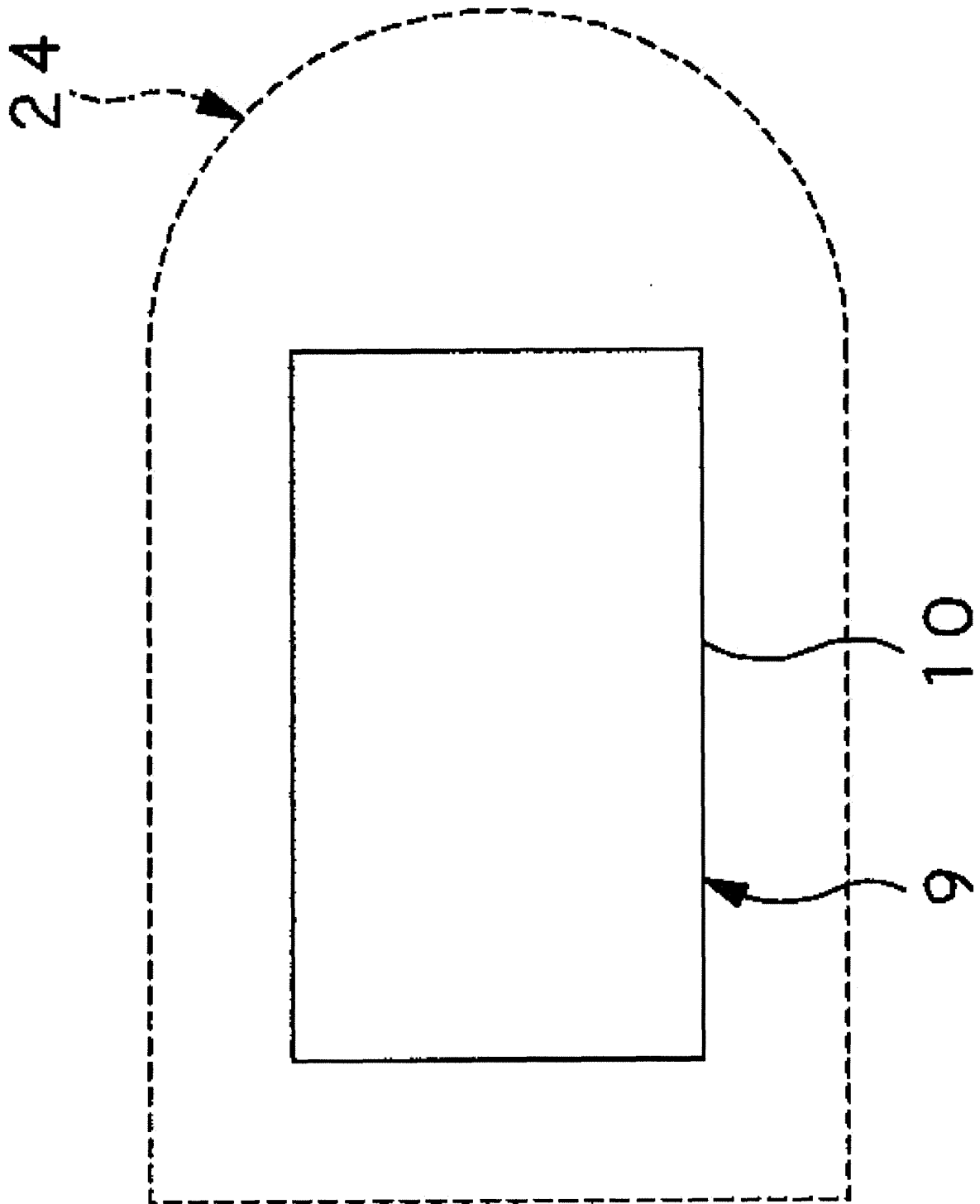
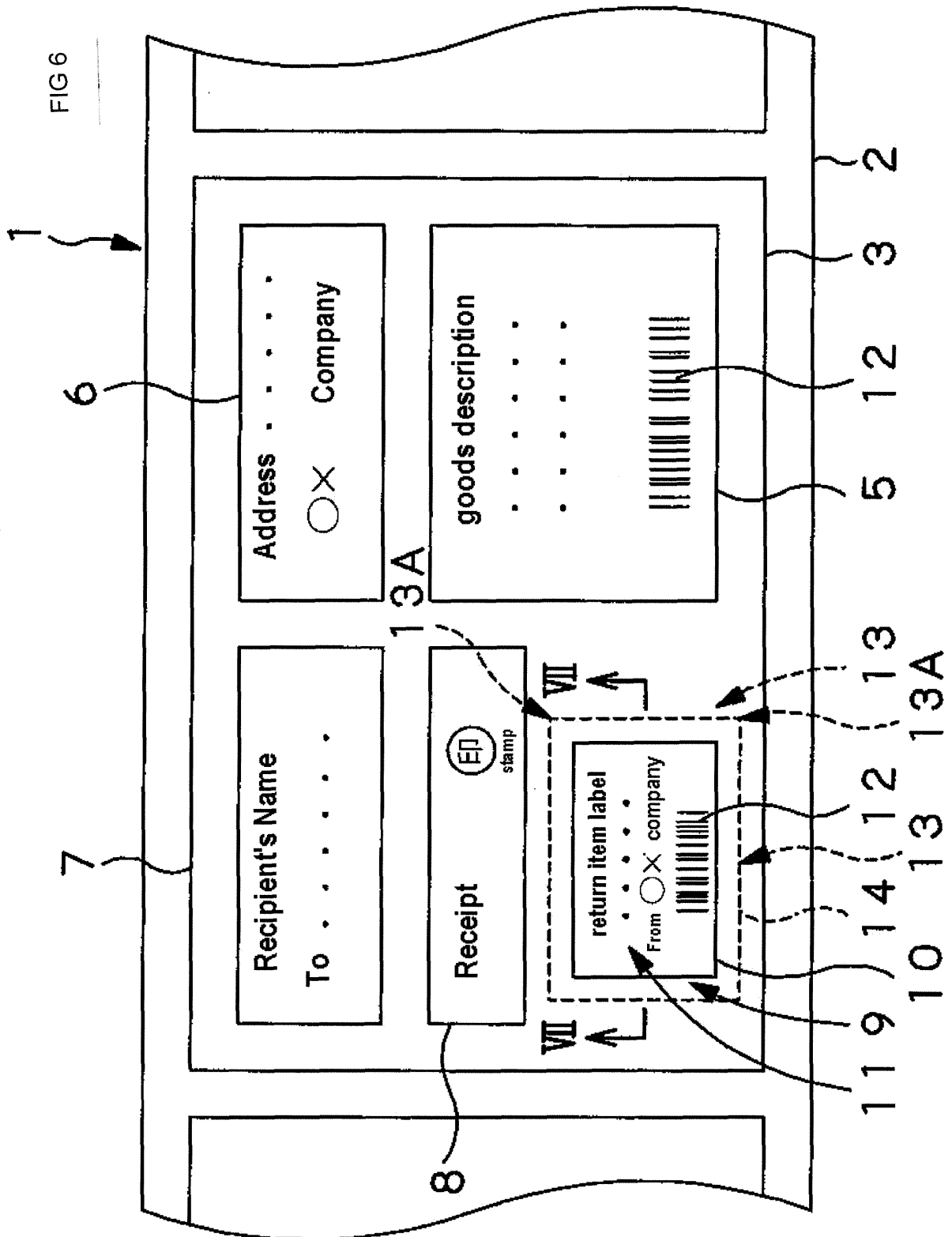


FIG 4

FIG 5





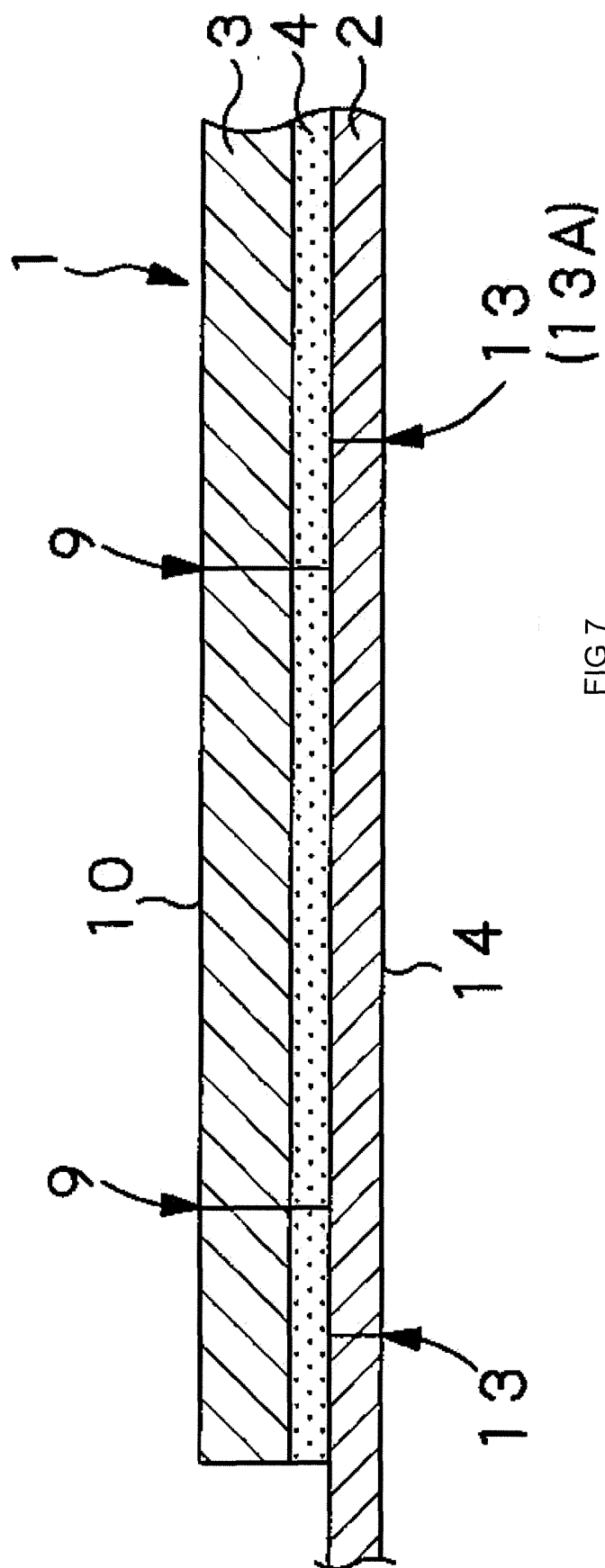


FIG 7

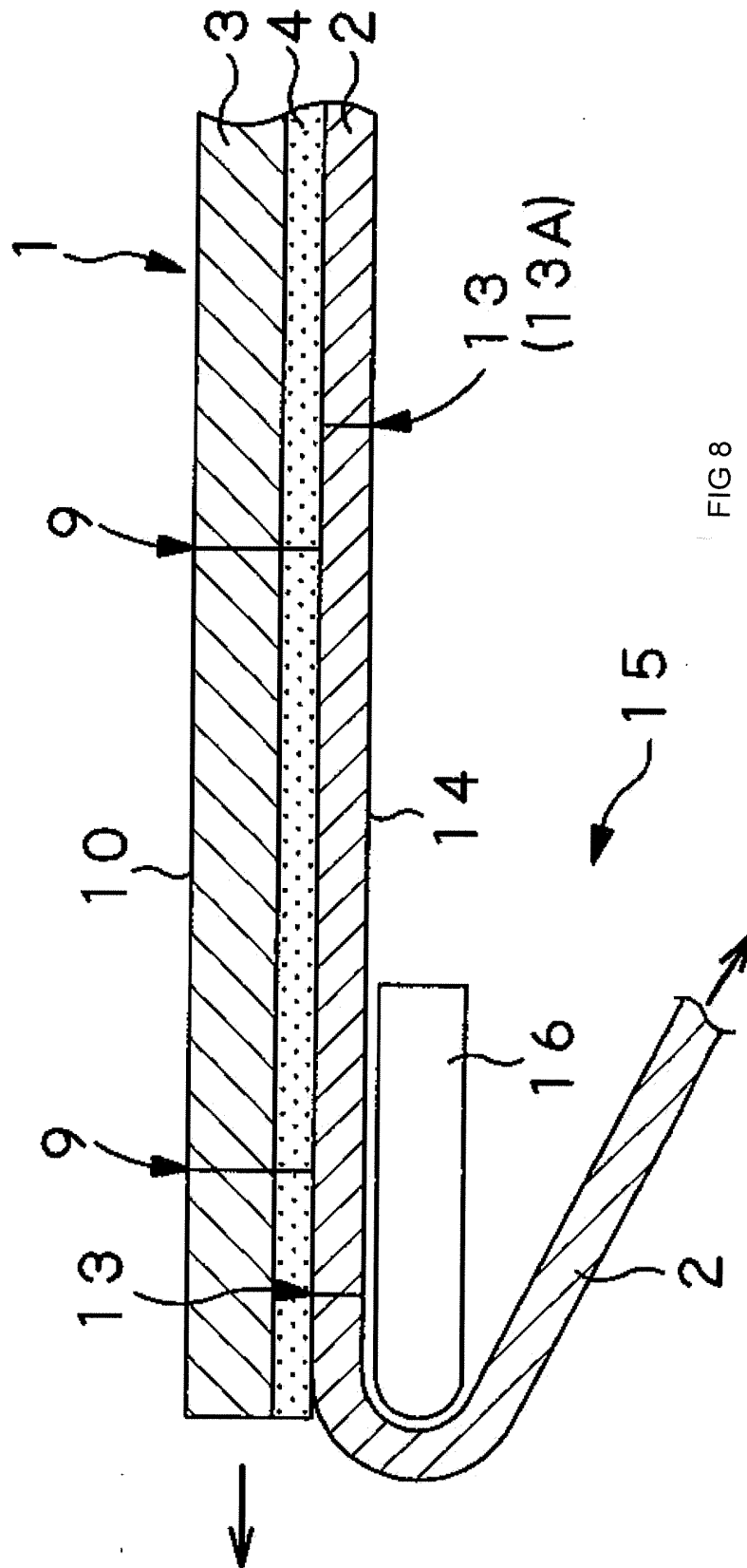


FIG 8

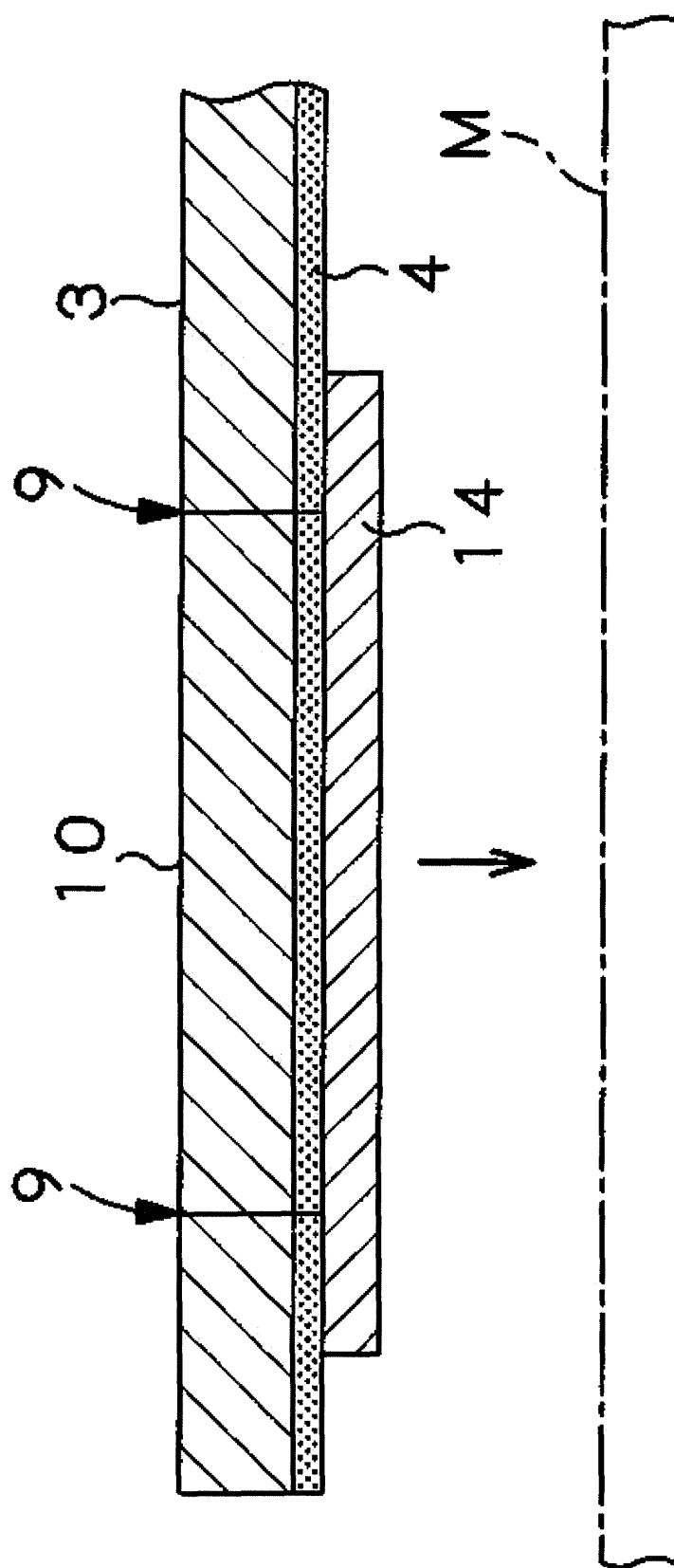


FIG 9

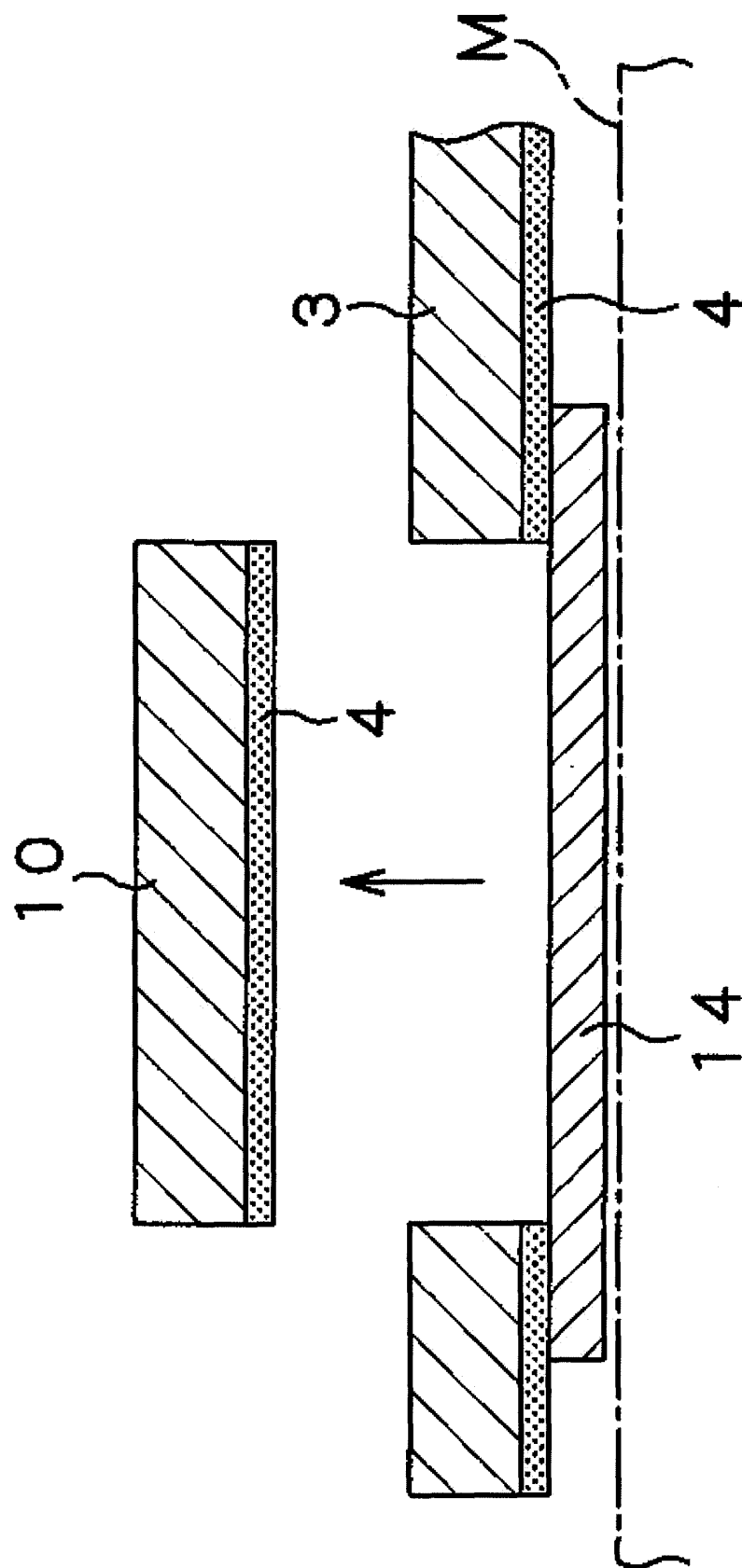
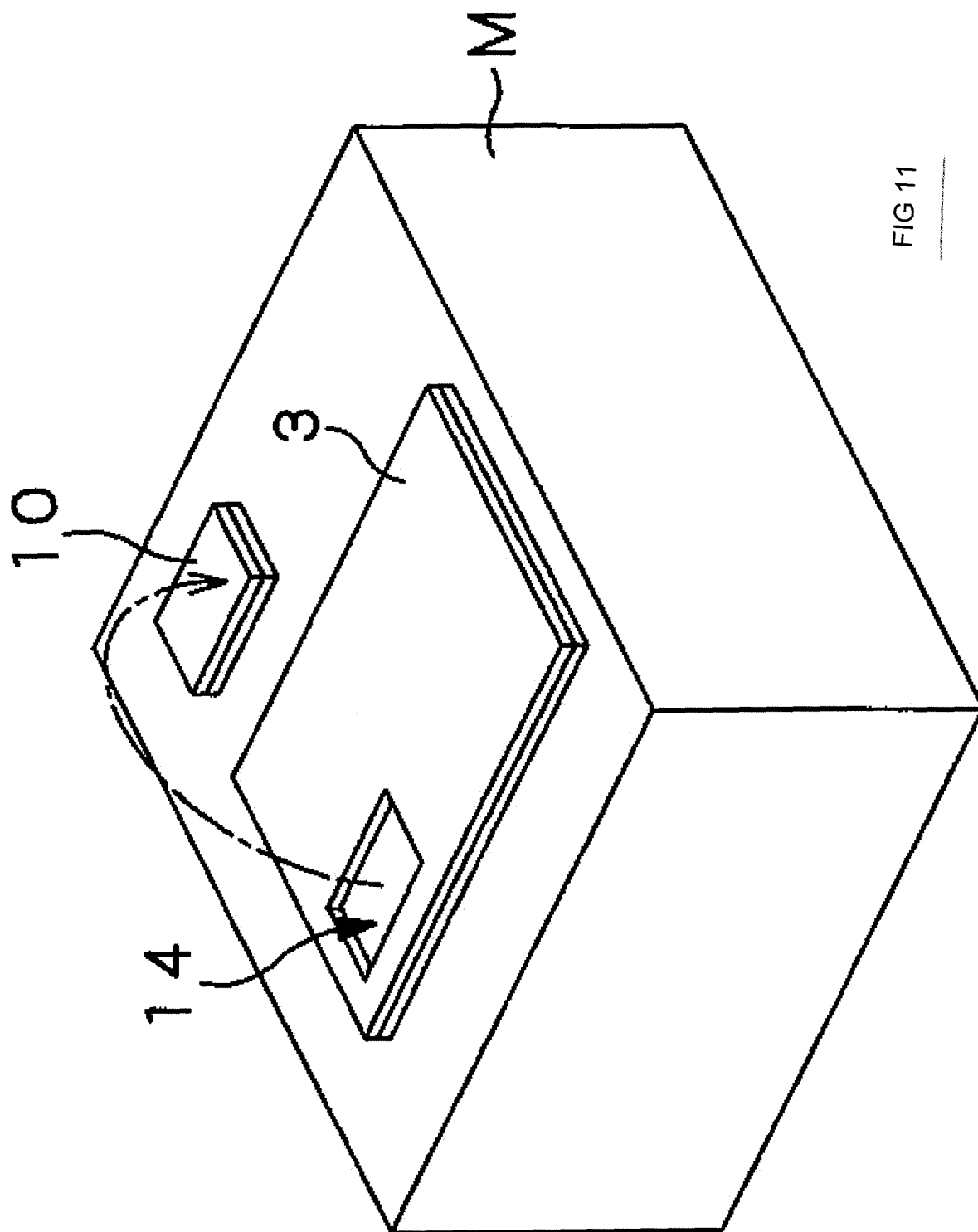


FIG 10



INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2008/051203

A. CLASSIFICATION OF SUBJECT MATTER <i>B42D11/00 (2006.01) i, G09F3/02 (2006.01) i, G09F3/10 (2006.01) i</i>		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) <i>B42D11/00-15/10, G09F3/00-3/20</i>		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched <i>Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2008</i> <i>Kokai Jitsuyo Shinan Koho 1971-2008 Toroku Jitsuyo Shinan Koho 1994-2008</i>		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2005-131874 A (Kobayashi Kirokushi Co., Ltd.), 26 May, 2005 (26.05.05), Full text; Figs. 1 to 9 (Family: none)	1-4
A	JP 2002-240464 A (Toppan Forms Co., Ltd.), 28 August, 2002 (28.08.02), Full text; Figs. 1 to 6 (Family: none)	1-4
☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 15 February, 2008 (15.02.08)		Date of mailing of the international search report 26 February, 2008 (26.02.08)
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer
Facsimile No.		Telephone No.

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Patent documents cited in the description

- JP 7040476 A [0009]