



(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:  
**06.12.2017 Bulletin 2017/49**

(51) Int Cl.:  
**A63D 15/06 (2006.01)**

(21) Application number: **16182553.4**

(22) Date of filing: **03.08.2016**

(84) Designated Contracting States:  
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR**  
Designated Extension States:  
**BA ME**  
Designated Validation States:  
**MA MD**

(71) Applicant: **Kabushiki Kaisha Miki DBA Co., Ltd.**  
**Gunma-ken 370-2321 (JP)**

(72) Inventor: **Miki, Kazunori**  
**Gunma-ken, 370-2321 (JP)**

(74) Representative: **Becker Kurig Straus**  
**Patentanwälte**  
**Bavariastrasse 7**  
**80336 München (DE)**

(30) Priority: **31.05.2016 JP 2016108188**

(54) **BILLIARD CHALK AND STORING CONTAINER FOR THE SAME**

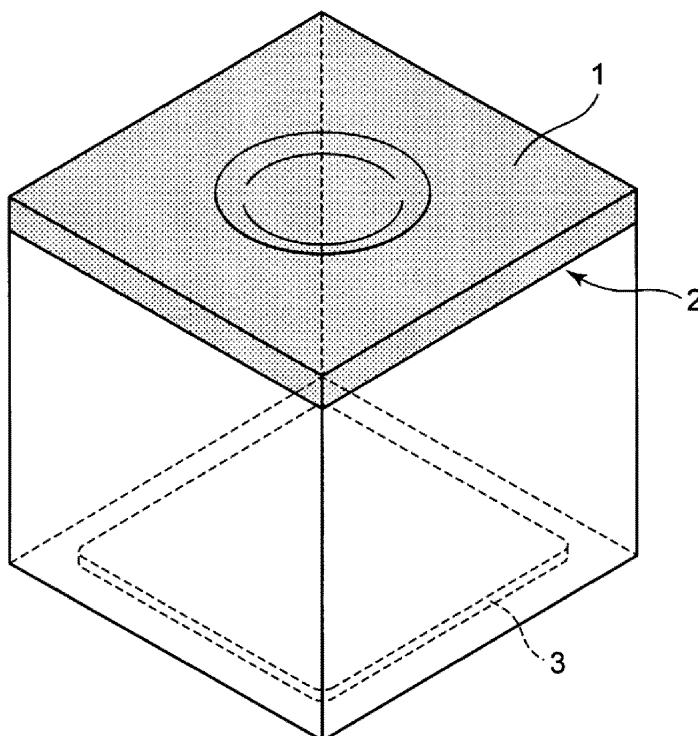
(57) A billiard chalk that is attracted and held on a holder including a magnet quickly and easily without using a tool for attachment is provided.

A billiard chalk according to the present invention is a billiard chalk configured to be attracted and held by a

magnetic force on a holder that is attached to a human body. In the billiard chalk, a plate-shape magnetic member sticks to an inner wall surface or an outer wall surface of a container that contains a chalk body while covering a side surface and a bottom surface of the chalk body.

Fig.1

10



## Description

### Field of the Invention

**[0001]** The present invention relates to a billiard chalk, and more particularly to a billiard chalk configured to be attracted and held by a magnetic force onto a holder that is attached to a human body.

### Background Art

**[0002]** A billiard chalk is applied to the tip of the shaft end of a cue stick to prevent slipping of the tip on the surface of a ball. The billiard chalk is placed on, for example, the rim of a billiard table so that a player takes the chalk when necessary to apply the chalk to the tip of the shaft end and strikes the ball. It is, however, inconvenient for the player to move to take the billiard chalk at each turn. In view of this, there is a tool that enables a player to carry a billiard chalk during play.

**[0003]** FIG. 7A illustrates a tool that is attached to a human body and includes a holder H with a magnet M and a U-shaped iron bracket B1. A player pushes and fixes a conventional billiard chalk 70 into the bracket B1 and brings the bracket B1 close to the holder H so that the bracket B1 containing the billiard chalk 70 is attracted and held on the holder H by a magnetic force of the magnet M.

**[0004]** FIG. 7B illustrates a tool that includes a holder H with a magnet M and a bracket B2 having a recessed groove, an iron plate provided at the bottom of the groove, and a bolt BL screwed into a side wall of the groove. A player inserts the billiard chalk 70 into the groove of the bracket B2 and rotates the bolt BL so that the end of the bolt BL is pushed against the side surface of the billiard chalk 70 and fixed. The player then brings the bracket B2 close to the holder H so that the bracket B2 containing the billiard chalk 70 is attracted and held on the holder H by a magnetic force of the magnet M.

**[0005]** In this manner, the use of the tool illustrated in FIG. 7A or FIG. 7B enables the player to carry the billiard chalk during play. In the case of using the tools illustrated in FIGS. 7A and 7B, however, it is a labor to attach the billiard chalk 70 to the bracket. In particular, in the tool illustrated in FIG. 7B, it is necessary to rotate the bolt BL with a dedicated jig to fix the billiard chalk 70, and thus, attachment work is complicated. In addition, if the billiard chalk 70 is detached from the bracket B2, the billiard chalk 70 cannot be fixed to the bracket B2 again without a dedicated jig, which is inconvenient. The tools illustrated in FIGS. 7A and 7B have a problem that once a bracket, which is an attachment tool, is lost, the billiard chalk cannot be held on the holder H anymore.

**[0006]** Patent Document 1 describes a ball marker holder in which a magnet plate 5 placed in a band-shaped main body 1 that can be attached to a side surface of a pocket 80 or a band 81 of golf wear, or a visor 82 of a cap, for example, is used for attracting and holding a

coin-shaped ball marker 6 including the magnet plate 5.

[Patent Document]

5 **[0007]** [Patent Document 1] Japanese Registered Utility Model No. 3138789

### SUMMARY OF THE INVENTION

10 **[0008]** The present invention has been made in view of the foregoing problems, and has an object of providing a billiard chalk that can be attracted and held on a holder including a magnet quickly and easily without using a tool for attachment.

15 **[0009]** The present invention also has an object of providing a chalk container for housing a chalk body of a billiard chalk.

**[0010]** A billiard chalk according to the present invention is a billiard chalk configured to be attracted and held by a magnetic force on a holder that is attached to a human body. In the billiard chalk, a magnetic member having a plate shape sticks to an inner wall surface or an outer wall surface of a container that houses a chalk body while covering a side surface and a bottom surface of the chalk body.

20 **[0011]** A chalk container according to the present invention is a container that houses a chalk body while covering a side surface and a bottom surface of the chalk body. In the chalk container, a magnetic member having a plate shape sticks to an inner wall surface or an outer wall surface of the chalk container.

25 **[0012]** In this manner, in the billiard chalk according to the present invention, the plate-shaped magnetic member sticks to the inner wall surface or the outer wall surface of the container that houses the chalk body. Thus, the magnetic member is drawn to be attracted and held on the holder. As a result, it is possible to provide a billiard chalk that can be attracted and held on a holder quickly and easily without using a tool for attachment.

30 **[0013]** In addition, a chalk container for housing a chalk body of a billiard chalk can also be provided.

### BRIEF DESCRIPTION OF THE DRAWINGS

35 **[0014]**

FIG. 1 is a perspective view of a billiard chalk 10 according to an embodiment of the present invention.

40 FIG. 2 is a disassembled perspective view of the billiard chalk 10 illustrated in FIG. 1.

FIG. 3 is a development of a container 2 of the billiard chalk 10 illustrated in FIG. 1.

45 FIG. 4A illustrates a state before a chalk body 1 of the billiard chalk 10 illustrated in FIG. 1 is housed in the container 2, FIG. 4B illustrates a state in which first side walls 2b of the container 2 stick to side surfaces of the chalk body 1 illustrated in FIG. 4A, and

FIG. 4C illustrates a state in which second side walls 2c of the container 2 stick to side surfaces of the chalk body 1 illustrated in FIG. 4B.

FIG. 5A illustrates a state before the billiard chalk 10 illustrated in FIG. 1 is attracted and held on a holder H, and FIG. 5B illustrates a state in which the billiard chalk 10 illustrated in FIG. 1 is attracted and held on the holder H.

FIG. 6 illustrates a state of use of the billiard chalk 10 illustrated in FIG. 1.

FIG. 7A illustrates a state in which a conventional billiard chalk 70 is attracted and held on a holder H using a bracket B1, and FIG. 7B illustrates a state in which the conventional billiard chalk 70 is attracted and held on the holder H using a bracket B2.

#### DESCRIPTION OF THE PREFERRED EMBODIMENTS

**[0015]** A configuration of a billiard chalk 10 according to an embodiment of the present invention will be described with reference to FIGS. 1 through 3. FIG. 1 is a perspective view of the billiard chalk 10 according to the embodiment of the present invention, FIG. 2 is a disassembled perspective view of the billiard chalk 10 illustrated in FIG. 1, and FIG. 3 is a development of a container 2 of the billiard chalk 10 illustrated in FIG. 1.

**[0016]** The billiard chalk 10 according to the embodiment of the present invention includes a chalk body 1, the container 2 that houses the chalk body 1 while covering a side surface and a bottom surface of the chalk body 1, and a magnetic member 3 that sticks to an inner wall surface of the container 2.

**[0017]** The chalk body 1 is a portion to be applied to a tip of a cue stick, and has a cubic shape. An upper surface of the chalk body 1 has a shallow circular recess for easing application to the cue stick tip. Although the chalk body 1 has a cubic shape in this embodiment, the chalk body 1 may have a cylindrical shape or a polygonal columnar shape, except the cubic shape.

**[0018]** The container 2 includes a bottom surface portion 2a, two first side walls 2b, two second side walls 2c, and a magnetic member 3. The bottom surface portion 2a, the two first side walls 2b, and the two second side walls 2c constituting the container 2 are made of paper, and the magnetic member 3 is made of a material, such as an iron, that is attracted to a magnet.

**[0019]** The bottom surface portion 2a is a portion that covers the bottom surface of the chalk body 1 and has a square shape corresponding to the bottom surface of the chalk body 1. Each of the first side walls 2b and the second side walls 2c is a portion that covers a side surface of the chalk body 1 and sticks to the side surface of the chalk body 1 with an adhesive. In this manner, since the first side walls 2b and the second side walls 2c stick to the side walls of the chalk body 1, the chalk body 1 and the container 2 can be united.

**[0020]** The two first side walls 2b respectively extend from two opposed sides of the four sides of the bottom

surface portion 2a, and when the two first side walls 2b are bent perpendicularly to the bottom surface portion 2a, the two first side walls 2b are opposed to each other. The two first side walls 2b cover two opposed side surfaces of the four side surfaces of the chalk body 1. The first side walls 2b have folded portions 2ba. When being folded, the folded portions 2ba cover parts of the other two opposed side surfaces of the four side surfaces of the chalk body 1.

**[0021]** The two second side walls 2c respectively extend from two opposed sides of the four sides of the bottom surface portion 2a and, when the second side walls 2c are bent perpendicularly to the bottom surface portion 2a, the second side walls 2c are opposed to each other. The second side walls 2c cover the other two opposed side surfaces of the chalk body 1 that are partially covered with the folded portions 2ba.

**[0022]** Here, since the folded portions 2ba cover part of the side surfaces (the other opposed side surfaces) of the chalk body 1, when the two second side walls 2c cover side surfaces (the other two opposed side surfaces) of the chalk body 1, a corner of the chalk body 1 is not exposed to the outside so that an aesthetic appearance of the billiard chalk 10 can be enhanced.

**[0023]** The magnetic member 3 is made of a square iron plate that has a property of being attracted by a magnet M (see FIGS. 5A and 5B) and is located within the four sides of the bottom surface portion 2a. The magnetic member 3 sticks to the bottom surface portion 2a with an adhesive.

**[0024]** Here, since the magnetic member 3 sticks to the container 2 whose first side walls 2b and second side walls 2c stick to the chalk body 1 so that the container 2 and the chalk body 1 are united, not only the magnetic member 3 but also the chalk body 1 and the container 2 can be attracted and held on the magnet M only by bringing the magnetic member 3 close to the magnet M of a holder H.

**[0025]** A method for fabricating a billiard chalk 10 according to an embodiment of the present invention will now be described with reference to FIGS. 4A through 4C. FIG. 4A illustrates a state before a chalk body 1 of the billiard chalk 10 illustrated in FIG. 1 is housed in a container 2, FIG. 4B illustrates a state in which first side walls 2b of the container 2 stick to side surfaces of the chalk body 1 illustrated in FIG. 4A, and FIG. 4C illustrates a state in which second side walls 2c of the container 2 stick to side surfaces of the chalk body 1 and folded portions 2ba illustrated in FIG. 4B.

**[0026]** First, a container 2 before assembly having a bottom surface portion 2a to which a magnetic member 3 sticks is prepared. Next, a bottom surface of a chalk body 1 is placed on the magnetic member 3. Thereafter, first side walls 2b are bent perpendicularly to the bottom surface portion 2a, and stick to two opposed side surfaces of the four side surfaces of the chalk body 1. Subsequently, folded portions 2ba are folded to stick to the other two opposed side surfaces of the four side surfaces of

the chalk body 1. Then, second side walls 2c are bent perpendicularly to the bottom surface portion 2a, and stick to the surfaces of the folded portions 2ba and the side surfaces (the other two opposed side surfaces) of the chalk body 1. In this manner, the billiard chalk 10 is fabricated.

**[0027]** It will now be described how to use the billiard chalk 10 according to the embodiment of the present invention with reference to FIGS. 5A, 5B, and 6. FIG. 5A illustrates a state before the billiard chalk 10 illustrated in FIG. 1 is attracted and held on a holder H, and FIG. 5B illustrates a state in which the billiard chalk 10 illustrated in FIG. 1 is attracted and held on the holder H. FIG. 6 illustrates a state of use of the billiard chalk 10 illustrated in FIG. 1.

**[0028]** A player attaches a holder H including the magnet M to a cloth (e.g., belt or pocket) and brings the billiard chalk 10 close to the holder H. Then, the magnetic member 3 is attracted by a magnetic force so that the billiard chalk 10 is attracted and held on the holder H (magnet M). In this manner, the player can carry the billiard chalk 10, detach the billiard chalk 10 from the holder H to apply the billiard chalk 10 to the tip of a cue stick when necessary, and carries the billiard chalk 10 again by attracting and holding the billiard chalk 10 on the holder H.

**[0029]** In this manner, in the billiard chalk 10 according to the embodiment of the present invention, the first side walls 2b and the second side walls 2c stick to the side surfaces of the chalk body 1 so that the container 2 is united with the chalk body 1. Then, the magnetic member 3 sticks to the bottom surface portion 2a of the container 2 united with the chalk body 1. In this manner, when the magnetic member 3 is attracted to the magnet M of the holder H by a magnetic force, not only the magnetic member 3 but also the chalk body 1 and the container 2 can be attracted and held on the holder H (magnet M). As a result, it is possible to provide the billiard chalk 10 that can be attracted and held on the holder H including the magnet M quickly and easily without using a tool for attachment.

**[0030]** In the billiard chalk 10 according to the embodiment, the magnetic member 3 is disposed at the inner wall of the container 2, but may be disposed at the outer wall of the container 2. Although the magnetic member 3 sticks to the bottom surface portion 2a in this embodiment, the magnetic member 3 may stick to the first side walls 2b or the second side walls 2c. In addition, although the magnetic member 3 does not stick to the chalk body 1 in this embodiment, the magnetic member 3 may stick to the chalk body 1. If the magnetic member 3 sticks to the chalk body 1, the container 2 can be more firmly fixed to the chalk body 1. Although the magnetic member 3 has a square plate shape in this embodiment, the magnetic member 3 may have a circular plate shape, for example. Although the magnetic member 3 is made of an iron in this embodiment, the magnetic member 3 may be made of a material, such as cobalt, nickel, or ferrite, that can be attracted and held on the magnet M.

**[0031]** The magnetic member 3 to stick to the chalk body 1 may be a magnet with the holder H being made of a material, such as an iron, that can be attracted and held.

**[0032]** Although the first side walls 2b have the folded portions 2ba in this embodiment, the first side walls 2b do not necessarily have the folded portions 2ba. In the case of providing no folded portions 2ba, the second side walls 2c stick only to the side surfaces of the chalk body 1. In this case, a sticking process is easy, and the container 2 can be easily united with the chalk body 1.

**[0033]** In addition, the container 2 covers the side surfaces and the bottom surface of the chalk body 1 by causing the first side walls 2b and the second side walls 2c to stick directly to the side surfaces of the chalk body 1 in this embodiment. Alternatively, in a case where the side surfaces and the bottom surface of the chalk body 1 are already covered with another cover, the first side walls 2b and the second side walls 2c may stick to the cover so that the container 2 can cover the side surfaces and the bottom surface of the chalk body 1. In this manner, a billiard chalk according to the present invention can be fabricated by using an existing billiard chalk in which the bottom surface and side surfaces of the chalk body 1 are covered with a cover.

**[0034]** The billiard chalk 10 according to the embodiment of the present invention has been described above. The present invention, however, is not limited to the embodiment described above, and may be variously modified within the scope of technical idea of the invention.

#### Description of Reference Signs

##### [0035]

10	billiard chalk
1	chalk body
2	container
2a	bottom surface portion
2b	first side wall
2ba	folded portion
2c	second side wall
3	magnetic member
H	holder
M	magnet

#### Claims

1. A billiard chalk configured to be attracted and held by a magnetic force on a holder that is attached to a human body, wherein a magnetic member having a plate shape sticks to an inner wall surface or an outer wall surface of a container that houses a chalk body while covering a side surface and a bottom surface of the chalk body.
2. A chalk container that houses a chalk body while

covering a side surface and a bottom surface of the chalk body, wherein a magnetic member having a plate shape sticks to an inner wall surface or an outer wall surface of the chalk container.

5

10

15

20

25

30

35

40

45

50

55

Fig.1

10

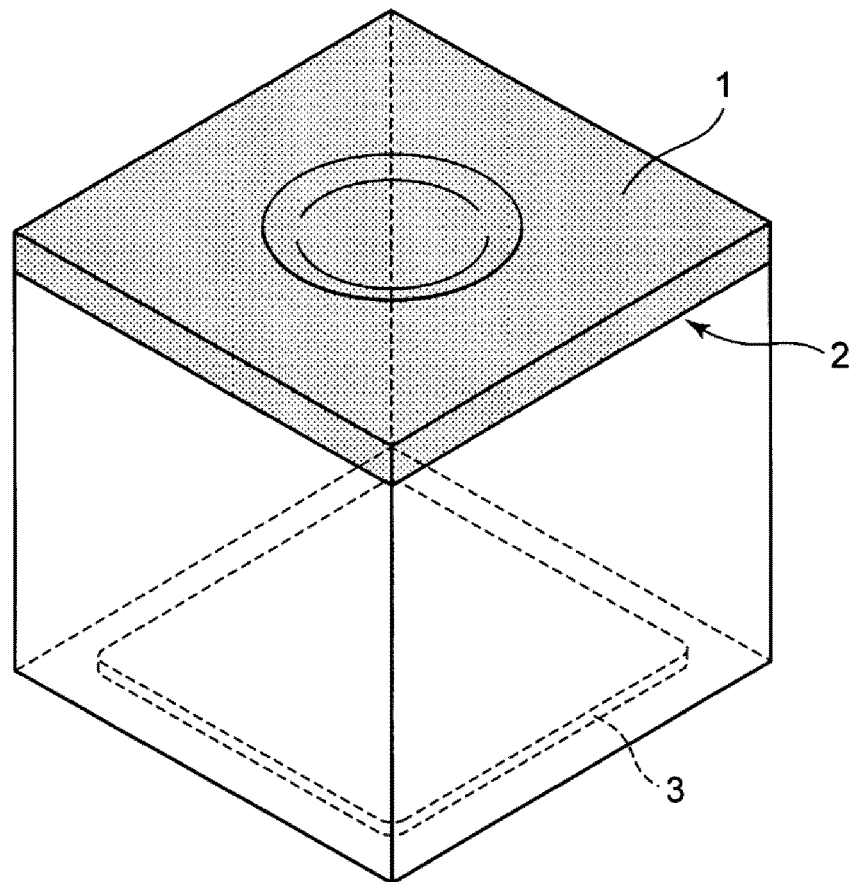


Fig.2

**10**

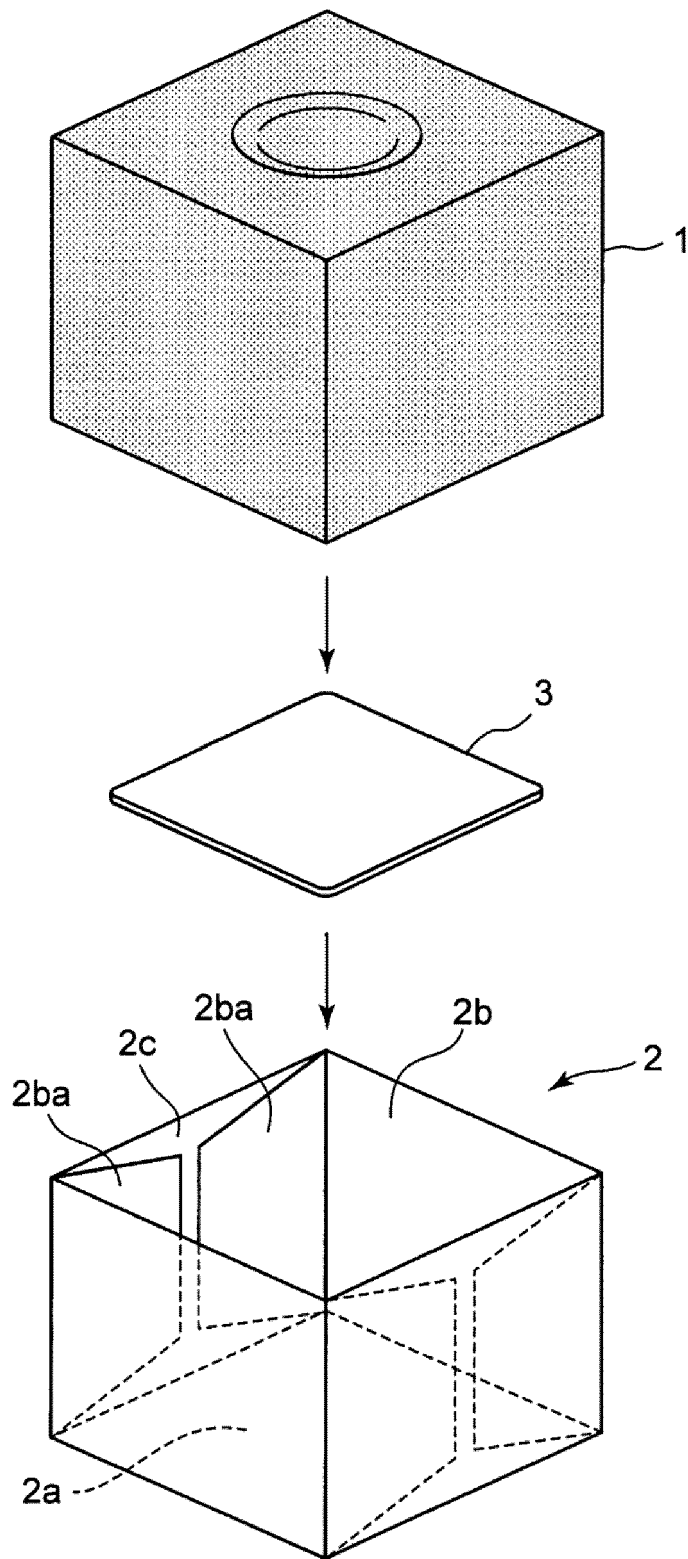


Fig.3

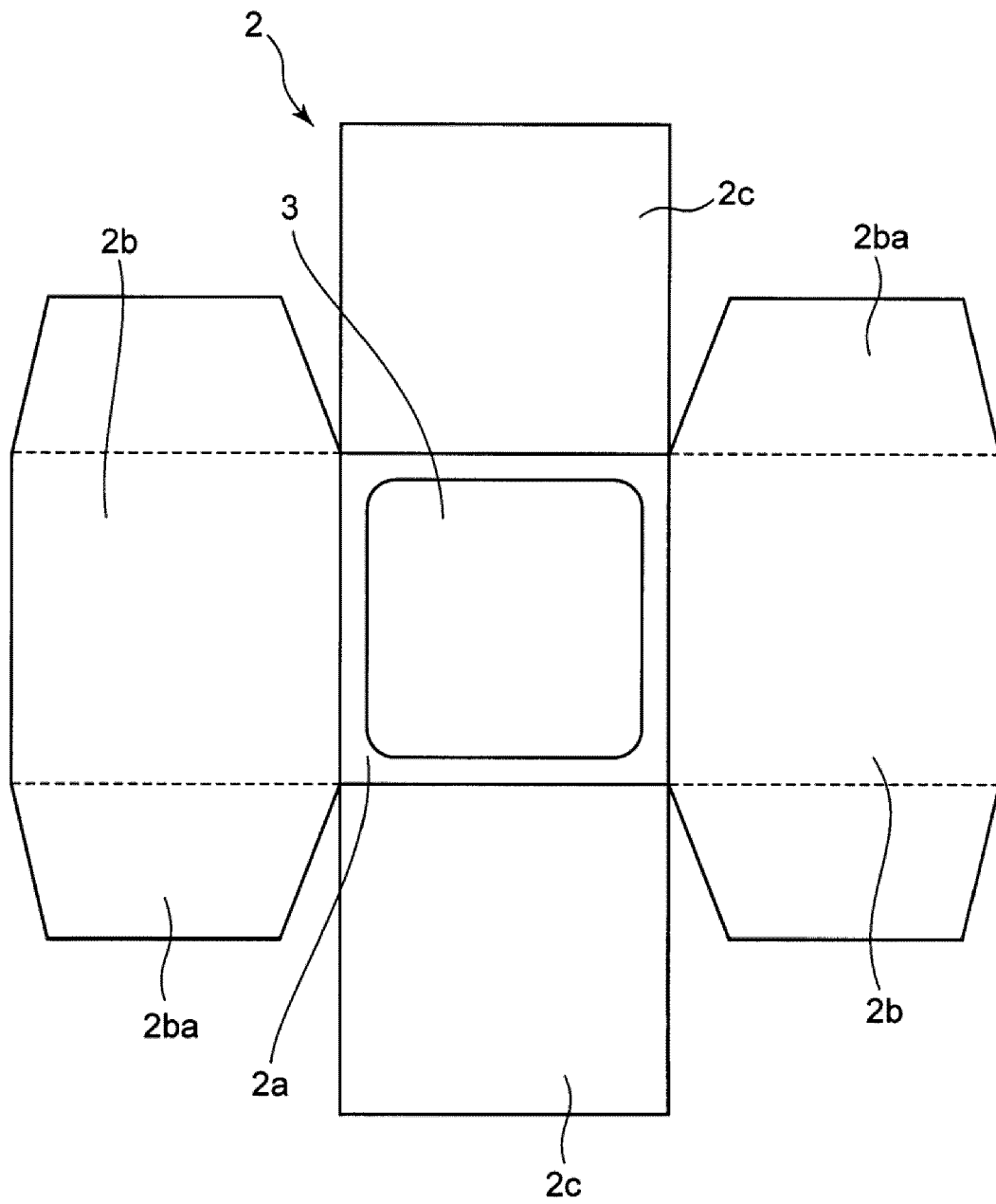




Fig.4

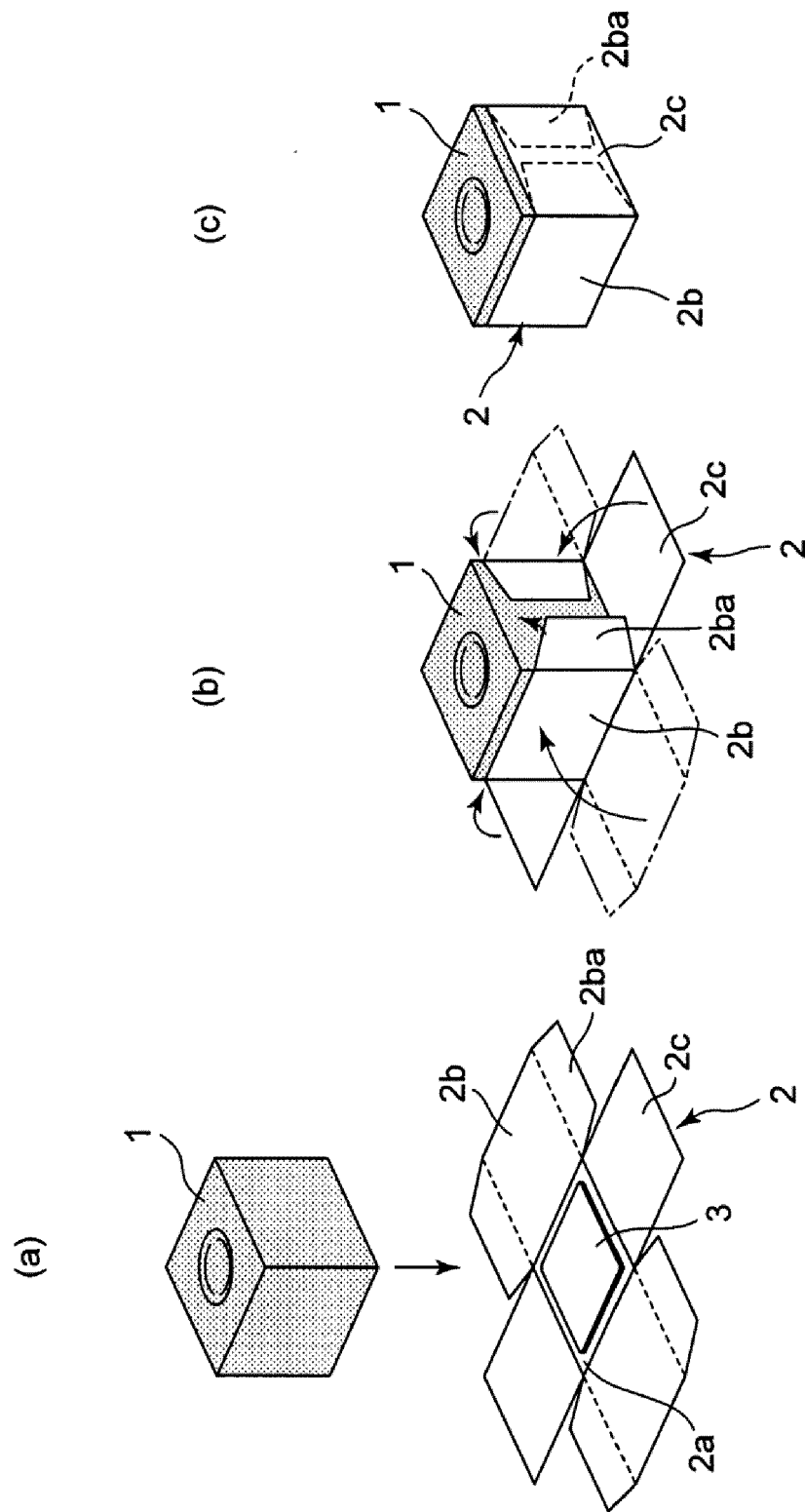


Fig.5

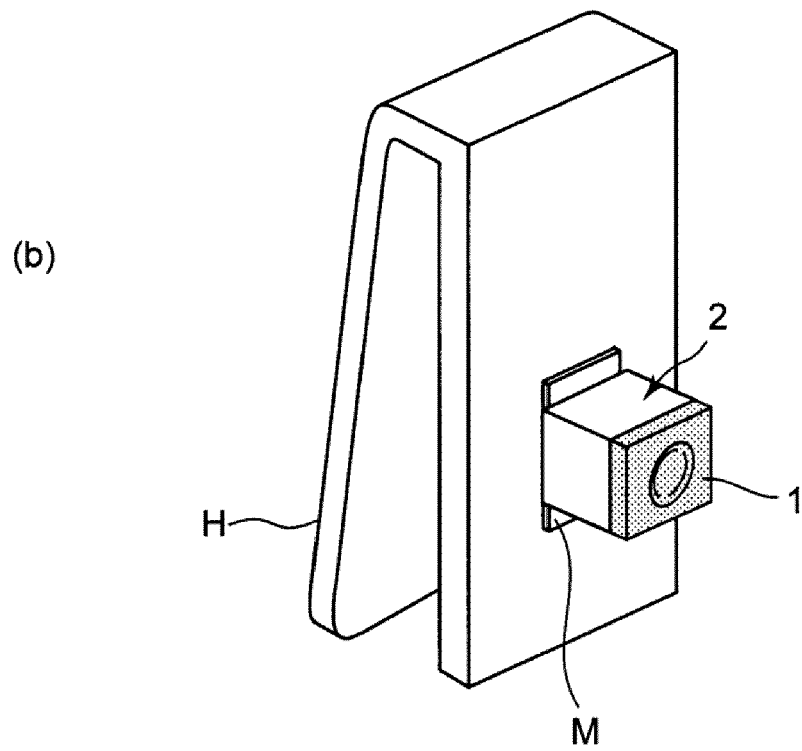
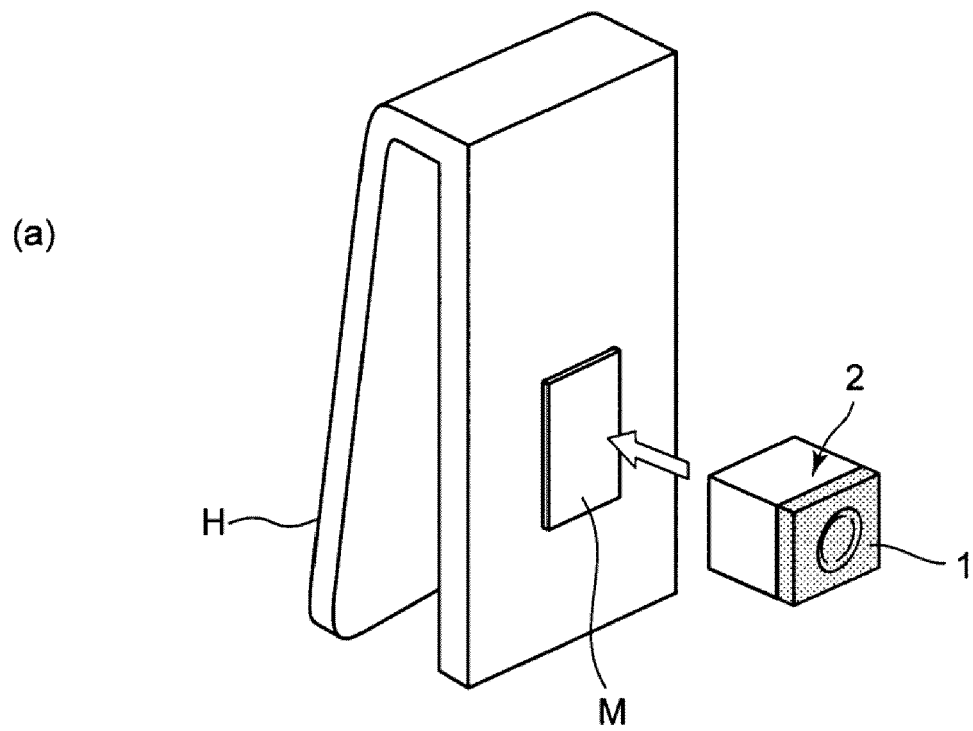


Fig.6

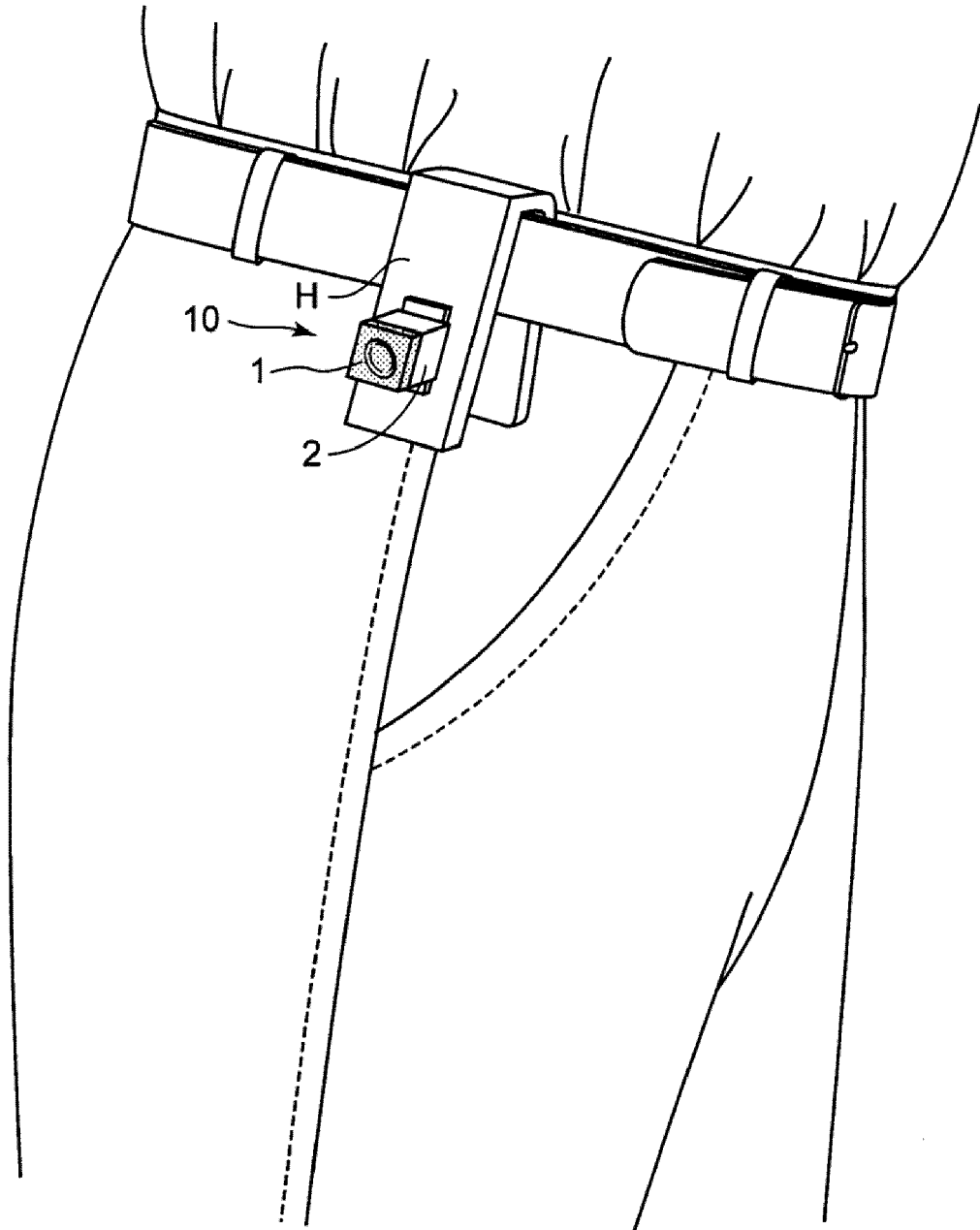
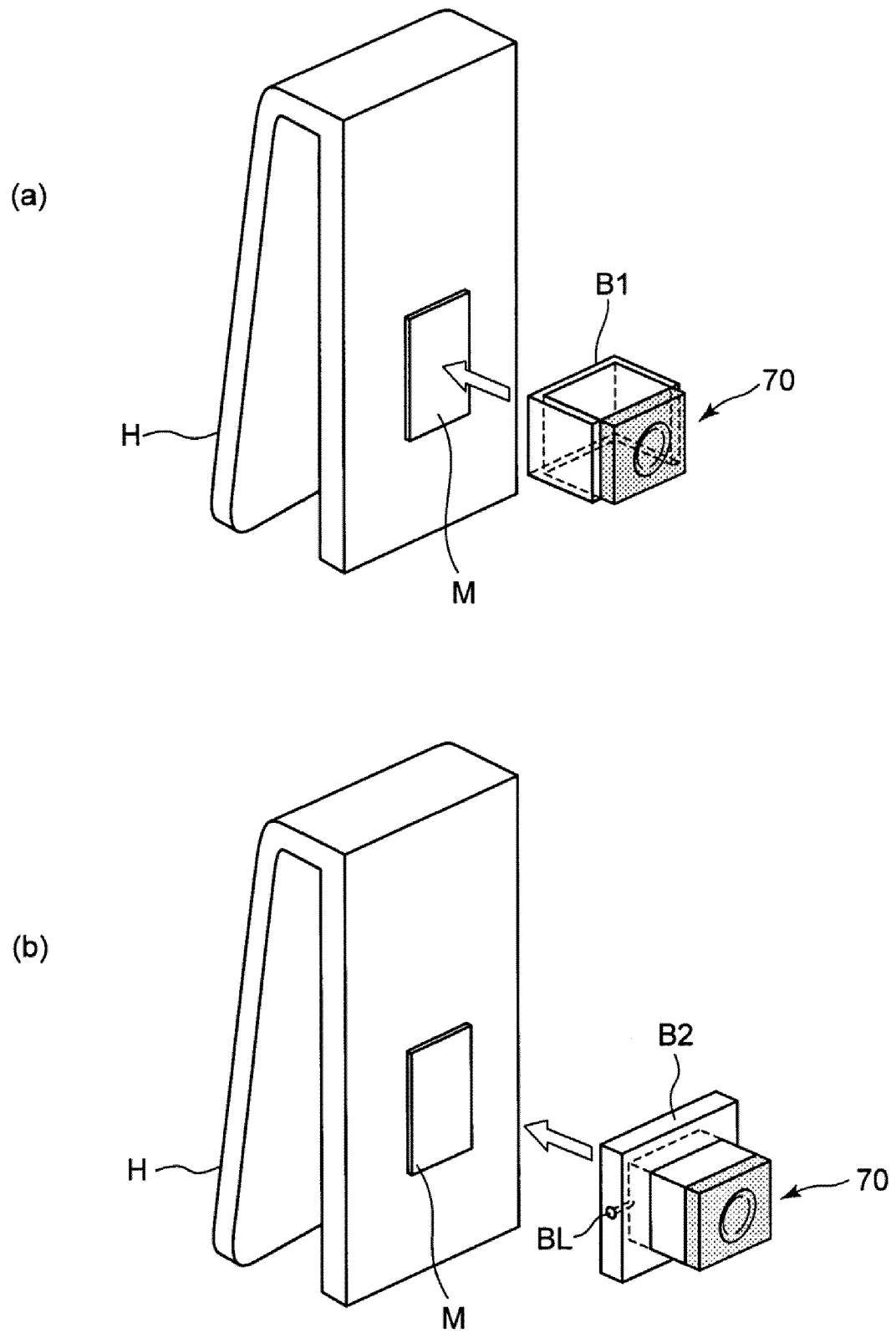


Fig.7





## EUROPEAN SEARCH REPORT

 Application Number  
 EP 16 18 2553

5

10

15

20

25

30

35

40

45

50

55

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 5 328 411 A (THORNTON II ROBERT P [US]) 12 July 1994 (1994-07-12) * column 2, line 61 - column 3, line 39; figures 1, 6-8 *	1,2	INV. A63D15/06
X	US 5 046 728 A (HADDOCK JOHN [CA]) 10 September 1991 (1991-09-10) * column 2, lines 26-32; figures *	1,2	
A	CN 203 989 809 U (LI ZHENAN; WANG XIANZHONG) 10 December 2014 (2014-12-10) * the whole document *	1,2	
A	AU 2004 100 276 A4 (GEORGE SCOTT) 6 May 2004 (2004-05-06) * the whole document *	1,2	
			TECHNICAL FIELDS SEARCHED (IPC)
			A63D
The present search report has been drawn up for all claims			
Place of search <b>Munich</b>		Date of completion of the search <b>6 February 2017</b>	Examiner <b>Turmo, Robert</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	

 1  
 EPO FORM 1503 03/02 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 16 18 2553

5

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

06-02-2017

10

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5328411	A	12-07-1994	NONE
US 5046728	A	10-09-1991	NONE
CN 203989809	U	10-12-2014	NONE
AU 2004100276	A4	06-05-2004	NONE

15

20

25

30

35

40

45

50

55

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

**REFERENCES CITED IN THE DESCRIPTION**

*This list of references cited by the applicant is for the reader's convenience only. It does not form part of the European patent document. Even though great care has been taken in compiling the references, errors or omissions cannot be excluded and the EPO disclaims all liability in this regard.*

**Patent documents cited in the description**

- JP 3138789 B [0007]