



(11) **EP 4 215 376 A1**

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
26.07.2023 Bulletin 2023/30

(21) Application number: **22152482.0**

(22) Date of filing: **20.01.2022**

(51) International Patent Classification (IPC):
B42B 7/00 ^(2006.01) **B42D 3/12** ^(2006.01)
B42D 5/00 ^(2006.01) **B42D 5/04** ^(2006.01)
B42F 11/00 ^(2006.01) **A45C 11/00** ^(2006.01)
A45C 11/36 ^(2006.01) **B42D 1/00** ^(2006.01)
A45C 11/34 ^(2006.01)

(52) Cooperative Patent Classification (CPC):
B42B 7/00; A45C 11/34; A45C 11/36; B42D 1/007;
B42D 3/12; B42D 5/003; B42D 5/006; B42D 5/045;
B42F 11/00; A45C 2200/15

(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:
KH MA MD TN

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(54) **CASE WITH INTEGRATED HOLDER FOR AT LEAST ONE WRITING TOOL AND WITH A NOTEBOOK, AND METHOD FOR ITS MANUFACTURING**

(57) A method for the making of a case (1) with at least one integrated holder (2) for one or more writing tools (S) and at least one paper notebook (3), said case (1) can be made by folding a die-cut sheet (10) adapted to form at least partially the cover (C) of said case (1), and which has:
a plurality of cover elements (101, 102, 103, 104) mutually separated therein by corresponding first folding lines (11, 12, 13) parallel to each other, where said sheet (10) is reversibly foldable along said first folding lines or folding lines (11, 12, 13) between a closed configuration and an open configuration for forming at least one front cover element (103), a back cover element (101) and a spine cover element (102), the method comprising at least the following steps of:

- fastening said at least one holder (2) to said at least one die-cut sheet (10) at one of said front or back cover elements (103, 101);
- fastening said at least one paper notebook (3), at one of said front or back cover elements (101, 103) different from said front or back cover element (101, 103) at which said holder (2) is placed,
- folding said plurality of elements (101, 102, 103, 104) along said first folding lines (11, 12, 13) in said closed configuration, where, in said closed configuration, said at least one holder (2) and said at least one paper notebook (3) face each other and are interposed between said front cover element (103) and said back cover element (101).

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Description

FIELD OF THE INVENTION

[0001] Object of the present invention is a method for making a case comprising an integrated holder, preferably of the box-like type and of paper material, for one or more writing tools, such as e.g. markers, pastels, pencils, etc. and a corresponding notebook, preferably of paper sheets, by means of at least one first die-cut paper material sheet. The object of the present invention is also a case made by means of this method.

[0002] The present invention is further directed to a second die-cut paper material sheet to make an integrated holder, of the box-like type, for one or more writing tools, which can be coupled to a case according to the invention.

KNOWN PRIOR ART

[0003] Cases or agendas are known, which comprise a notebook of removable paper sheets, which is applied on an inner surface of the cover of the case or agenda, which in turn can provide for a housing intended to accommodate a pen or other writing tool.

[0004] For example, cases or agendas are known, which are made by means of a paper-making method in which, from a single die-cut sheet preferably of card stock, a support for a paper notebook is made to constitute e.g. a notepad which is equipped at the top or at a spine portion with a box-like prismatic compartment for a pen or other writing tool. Preferably prismatic, i.e. box-like, paper material holders, for housing a plurality of writing tools, e.g.

[0005] cases of markers, pencils or pastels, are also known.

[0006] These holders are made by means of a paper-making method, in which a single die-cut sheet, preferably made of card, is folded to form a holder with a housing portion and a closing portion, in order to allow the housing and holding of a plurality of writing tools arranged adjacent to each other.

[0007] The shape of the cases of the known art does not provide the housing of such a holder comprising a plurality of writing tools, e.g. a box of markers or pencils or pastels, and the simultaneous housing of a notebook.

[0008] It should be noted that here and hereinafter the expression "notebook" means a paper, or other suitable paper material, notebook bound on any side, e.g. by gluing, sealing, or ring binding or more, so that it can be flipped through by a user.

[0009] This paper notebook can be made up of white sheets or sheets equipped with traces for drawing and/or colouring. Object of the present invention is to implement a case with an integrated holder for a plurality of writing tools and a respective notebook, by making use, at least partially, of a paper-making method in a simple and economical way.

[0010] Another object of the invention is to implement a case with an integrated holder for at least one writing tool and with a notebook which, by using only paper material for the cover, the holder and the respective notebook, complies with the objectives of reducing pollution from plastic or synthetic materials.

[0011] It is still another object of the present invention to implement a case, with a book-like or notepad-like opening, equipped with a respective paper material support for the holder of writing tools, which allows to keep such holder in a raised position during use by a user, in order to assist access to the writing tools housed therein, and wherein said support can be easily obtained from a single paper material plate or sheet through a paper-making method.

BRIEF DESCRIPTION OF THE INVENTION

[0012] These objects are achieved by a method for the making of a case with at least one integrated holder, preferably of the box-like type, for one or more writing tools, and at least one paper notebook, said case can be made by folding a die-cut sheet adapted to form at least partially the cover of said case, and which has:

a plurality of cover elements, preferably but not necessarily quadrangular, mutually separated therein by corresponding first folding lines parallel to each other, where said sheet is reversibly foldable along said first folding lines between a closed configuration and an open configuration to form at least one front cover element, a back cover element and a spine cover element, the method comprising at least the following steps of:

- constraining, preferably by fastening, said at least one holder to said at least one die-cut sheet at one of said front or back cover elements;
- constraining, preferably by fastening, said at least one paper notebook at one of said front or back cover elements, which is different from said front or back cover element at which said holder is constrained,
- folding said plurality of elements along said first folding lines in said closed configuration,

where, in said closed configuration, said at least one holder and said at least one paper notebook face each other and are interposed between said front cover element and said back cover element.

[0013] It should be noted that the integrated holder for one or more writing tools referred to above may be any holder for a plurality of writing tools, such as pens, pencils, pastels, markers, etc., of the box-like and reclosable type, in itself sometimes generally known in some configurations thereof.

[0014] Advantageously, the cover of the aforesaid case equipped with an integrated holder for one or more writing tools and with a notebook according to the invention, can be formed from a single sheet of die-cut cardboard, or other paper material, by means of a few simple steps.

[0015] This case according to an aspect of the invention allows easily and quickly the use of one or more writing tools, preferably a plurality of pencils or pastels or markers or coloured pens, etc., on the respective paper notebook for recreational purposes, without the need to have two separate entities, i.e. the paper notebook and the holder of pencils, pastels or markers, etc., to carry out recreational drawing or colouring operations.

[0016] According to an aspect of the invention, the die-cut sheet comprises, in addition to the aforesaid front, back and spine cover elements, at least one further cover reinforcing (doubling) element placed in the end position of said sheet and seamlessly connected to one of said front element and said back cover element by means of a folding line belonging to said first folding lines parallel to each other,

wherein, before said step of fastening said at least one holder at one of said front or back cover elements, said method comprises the further step of folding said cover reinforcing (doubling) element on said front or back cover element to which it is connected, so that said holder is subsequently fastened to said cover reinforcing element.

[0017] Advantageously, the presence of at least one cover reinforcing (doubling) element folded on the front or back cover element at which the holder for one or more writing tools, or alternatively the paper notebook, is preferably constrained, allows the cover to be strengthened thus assisting the support of the same holder and/or paper notebook.

[0018] According to a further aspect, the die-cut sheet further comprises a plurality of panels which are mutually separated therein by corresponding second folding lines parallel to each other and arranged transversely to the aforesaid first folding lines, and wherein such plurality of panels is seamlessly connected, to one of said front cover element or said back cover element placed in an end position of said die-cut sheet, and in such a way that the method according to an aspect of the invention comprises the further step of folding said panels along the aforesaid second folding lines in an at least partially prismatic and preferably at least "L"-shaped configuration, so that such panels form at least part of a housing for a writing tool or aid, such as a rubber, pen, white paint bottle, etc., of the case.

[0019] The expression "at least partially prismatic configuration and preferably at least an 'L'-shaped configuration" means that the panels have at least one panel connected to the cover of the case and placed at 90° with respect to the same cover of the case and at least one subsequent panel placed parallel to the cover of the case, in addition to any further panels, so as to make, possibly with the paper notebook, a housing for a writing tool or

for a writing aid.

[0020] According to an aspect, the panels are folded along the aforesaid second folding lines in such a way as to form at least part of a prismatic structure and said method comprises the further step of making part of one of the aforesaid panels adhere to the surface of the paper notebook, to make a tubular structure.

[0021] According to a further aspect, the notebook is fastened to said front or back cover element, so that said notebook extends below said at least partially prismatic and preferably at least "L"-shaped structure.

[0022] It should be noted that the expression "tubular structure" herein means a generally cylindrical or polygonal or, in any case, polyhedral structure, even if not having a rectilinear extension, which is preferably formed between the panels and the notebook and which is closed on the sides and has at least one open base to allow the insertion of a writing tool or a writing aid and which is capable of housing, without the aid of other components different from its side surfaces made through the aforesaid panels, this writing tool or aid.

[0023] According to another aspect of the invention, the method can comprise the further step of making the holder for one or more writing tools, preferably a plurality of writing tools, such as pastels, markers, pencils, etc., wherein the holder, of a preferably box-like type, can be made by folding a second die-cut paper material sheet which has: a plurality of first parallel quadrangular elements divided therein by first parallel creases,

a plurality of second parallel quadrangular elements mutually divided therein by second parallel creases transverse to the first parallel creases, wherein said plurality of second parallel quadrangular elements is connected, through a crease of said second parallel creases, to an element of said plurality of first parallel quadrangular elements, which is adapted to form at least part of a holder's rear wall in the closed configuration, and a plurality of quadrangular strips mutually divided therein by third parallel creases transverse to said second parallel creases, wherein said plurality of quadrangular strips is connected, through a crease of said third parallel creases, to an intermediate element of said plurality of second parallel quadrangular elements, which is adapted to form a front wall of the holder in the closed configuration,

and a perimeter flap connected to said holder's rear wall through a crease transverse to said first parallel creases. where said step of making said holder comprises at least the following steps of:

- folding said perimeter flap seamlessly connected to said holder's rear wall toward said rear wall,
- folding said plurality of quadrangular strips along said third creases, toward said front wall of said plurality of second parallel quadrangular elements, so that said quadrangular strips form a

base for closing said holder,

- folding said plurality of second quadrangular holder elements along said second creases, toward said rear wall of said plurality of first parallel quadrangular elements, to form the holder's holding portion,
- making said perimeter flap adhere to the surface of a quadrangular element of said plurality of second parallel quadrangular elements, which is placed in end position, to fasten the holding portion of the holder in said closed configuration;
- folding said plurality of first parallel quadrangular elements along said first creases, so that a quadrangular element placed in end position is folded toward said front wall of the holder, to form a closing wall of the holder.

[0024] Advantageously, an integrated holder for a writing tool and a notebook can be formed from a single sheet of die-cut cardboard, or other paper material, by means of a few simple steps.

[0025] According to this aspect, the plurality of first parallel quadrangular elements comprises an end element seamlessly connected to said holder's rear wall, which is adapted to form a holder's supporting element, said method comprising the further steps of

- folding said supporting element below said rear wall along one of said first parallel creases,
- fastening at least part of said supporting element at one of said front or back cover element of said case.

[0026] Moreover, preferably, the holder's rear wall comprises a fixed portion and a movable portion, in such a way that in an open configuration of said case, said closing wall and said movable portion of said rear wall can be folded along said first creases below said fixed portion of said holder's rear wall, in such a way that the surface of said closing wall lies on the same plane as said supporting element and said movable portion of said rear wall forms an angle β between 80° and 100° with said supporting element.

[0027] Furthermore according to this aspect, in the open configuration of said case, the fixed portion of said holder's rear wall forms an angle α between 15° and 45° with said supporting element and with said front or back cover element of said case to which said holder is connected.

[0028] Advantageously, this configuration allows the making of an integrated support for the holder. This way, the writing tools housed inside the holder are more readily accessible to a user.

[0029] According to another aspect of the invention, the holder and/or the paper notebook are fastened to a respective cover element (e.g. by gluing).

[0030] The present invention is further directed to a die-cut paper material sheet for making an integrated

holder for a writing tool, comprising:

a plurality of first parallel quadrangular elements mutually divided therein by first parallel creases, and at least one plurality of second parallel elements mutually divided therein by second parallel creases transverse to the first parallel creases, wherein said plurality of second parallel elements is connected, through one of said second creases, to an element of the plurality of first parallel quadrangular elements adapted to form at least part of a holder's rear wall in the closed configuration, and at least one plurality of quadrangular strips mutually divided therein by third parallel creases transverse to said second parallel creases, wherein said plurality of quadrangular strips is connected, through one of said third creases, to an intermediate element of the plurality of second parallel quadrangular elements adapted to form a front wall of the holder in the closed configuration, and a perimeter flap connected, through a crease transverse to said first parallel creases, to said rear wall of the plurality of first parallel quadrangular elements, said first quadrangular elements being at least four, said second quadrangular elements being at least three, said quadrangular strips being at least two.

[0031] According to a preferred aspect, the plurality of first parallel quadrangular elements comprises a first end element adapted to form a closing wall of said holder, and a second end element seamlessly connected to said holder's rear wall and adapted to form a holder's supporting element.

[0032] The present invention is further directed to a case comprising an integrated holder for one or more writing tools and a notebook made according to the claimed method. According to an aspect, a die-cut sheet is used for the making of said holder according to the invention.

[0033] Other characteristics of the invention can be deduced from the dependent claims.

BRIEF DESCRIPTION OF THE FIGURES

[0034] Further characteristics and advantages of the invention will become clear from reading the following description provided by way of non-limiting example, with the aid of the figures depicted in the accompanying drawings, wherein:

- figure 1A is a plan view of a cardboard or card stock sheet adapted to make the cover of the case, according to an implementation of the invention;
- figure 1B is a plan view of a cardboard or card stock sheet adapted to make the cover of the case, according to an implementation of the invention;
- figure 2A is a plan view of a cardboard or card stock

- sheet adapted to make a holder, according to an implementation of the invention;
- figure 2B is a plan view of a cardboard or card stock sheet adapted to make a holder, according to an implementation of the invention;
 - figures 3A and 3B show two side views of the holder according to the invention of figure 2A;
 - figures 3C and 3D show two side views of the holder according to the invention of figure 2B;
 - figure 4A is an open configuration view of the holder according to the invention of figure 2A;
 - figure 4B is an open configuration view of the holder according to the invention of figure 2B;
 - figure 5 is a perspective view of the holder according to the invention;
 - figure 6A is a view of the case of figure 2A in open configuration, in a possible configuration of use according to the invention;
 - figure 6B is a view of the case of figure 2B in open configuration, in a possible configuration of use according to the invention;
 - figure 7 is a view of the case of figure 6 in a possible further configuration of use;
 - figure 8 is a view of the case in closed configuration according to the invention.

DETAILED DESCRIPTION OF THE FIGURES

[0035] The present invention will now be described, by way of non-limiting example, with reference to the accompanying figures, in which it is possible to see, in addition to the case 1 which comprises a notebook 3 and an integrated holder 2 for one or more writing tools, such as pens, pencils, pastels, markers or more, and which is depicted both in the open configuration (figures 6, 7 and 8) and in the closed configuration, also a die-cut paper material sheet 10 intended to constitute the cover of case 1 according to an embodiment of the invention (figures 1A and 1B), a die-cut paper material sheet 20 intended to constitute the integrated holder 2 for at least one writing tool S, according to a further embodiment of the invention (figures 2A and 2B) and also some steps of folding such die-cut sheets 10, 20, operated during the method to make the case 1.

The cover of the case

[0036] The cover C of the case 1 according to a preferred aspect of the invention can be made by folding a die-cut sheet, here simply referred to as paper material "die-cut sheet", which is provided with first pre-set folding lines and which is globally denoted by the reference numeral 10 in figure 1 (as well as in the further accompanying figures). The sheet 10 has a plurality of cover elements 101, 102, 103, 104 seamlessly joined together and mutually separated, i.e. geometrically separated, by the aforesaid corresponding first folding lines 11, 12, 13 parallel to each other.

[0037] The cover elements are preferably of square or rectangular, more generally quadrangular, shape and can be reversibly folded along the first parallel folding lines 11, 12, 13 between an open configuration and a closed configuration to form at least part of the cover of the case 1, in particular to form at least one front cover element 103, one back cover element 101 and one spine cover element 102.

[0038] In the present description, the term "folding lines", or also "creases", means dry traces made on the paper material sheets, e.g. card stock or cardboard, which make folding easier.

[0039] It should be noted that the cover elements 101, 102, 103 are here referred to as essentially quadrangular, since such is the shape by which such types of cases are commonly made. However, any other polygonal shape, even if not regular, that allows the making of a case 1 by means of the method illustrated here, can be used.

[0040] In the embodiment of the die-cut sheet 10 shown in figures 1A and 1B (in which the face of the sheet 10, which in the cover of the case 1 is intended to be external, is visible), a front cover element 103 and a back cover element 101 are separated from each other by a spine cover element 102 through two parallel folding lines 11, 12 belonging to the aforesaid first parallel folding lines 11, 12, 13.

[0041] The length of the elements 101, 102 and 103 determines the height of the case 1.

[0042] In the embodiment of the die-cut sheet 10 depicted in figures 1A and 1B, there is a further element 104 which is joined to the element 103 by a folding line 13 belonging to the first folding lines 11, 12, 13. As will be shown, this element 104 constitutes a reinforcing element of the element 103 to which it is joined by the folding line 13. As will be better explained below, the folding of the back, spine and front elements 101, 102, 103 of the sheet 10 and the folding of the reinforcing element 104, in such a way as to be superimposed on one face, the inner one, of the front element 103, allows to make the cover of the case 1. In a possible embodiment depicted in figure 1A, the die-cut sheet 10 can further comprise a plurality of panels 105, 106 mutually separated therein by corresponding second folding lines 14, 15 parallel to each other, which are arranged transversely to the first folding lines 11, 12, 13, where such plurality of panels 105, 106 is seamlessly connected to one of the front cover element or the back cover element 101, 103 which is placed in the end position of the sheet 10, i.e. in the free end position. In the embodiment of the sheet 10 shown in figure 1A, the panels 105, 106 are joined - in particular through the panel 105 - to the back cover element 101 through a folding line 14 belonging to the second folding lines 14, 15.

[0043] As will be more fully explained below, the folding of such panels 105, 106, in particular so that they take a "L" shape with the outermost panel 106, partially overlapping the notebook 3, allows to make a housing for a

writing tool, such as a pen, a pencil, etc., or for a writing aid, such as a rubber, a paint, e.g. white covering paint (so-called "correcting fluid"), scissors, etc.

[0044] It should be noted that, according to a possible alternative implementation of the sheet 10 shown in figure 1B, such panels 105 and 106 which allow to make a housing for a writing tool, are not present.

The making of the case

[0045] According to a preferred aspect of the invention, the method for the making of the case 1 from the die-cut sheet 10 further provides for a step of constraining, preferably a fastening constraint, the at least one holder 2 for one or more writing tools S to the at least one die-cut sheet 10 at the front element 103 of the cover 1 or at the reinforcing element 104 folded in such a way as to be superimposed on the inner face of the front element 103. In particular, according to an embodiment of the invention, a back surface of the holder 2 is constrained, and preferably fastened, to an inner face of the front element 103 of the cover of the case 1 or at the surface of the reinforcing element 104 folded in such a way as to be superimposed on the inner face of the front element 103. In a preferred embodiment, the back surface of the holder 2 is constrained, and preferably fastened, at the surface of the reinforcing element 104 folded in such a way as to be superimposed on the inner face of the front element 103 by means of constraining means 104' arranged on the reinforcing element 104.

[0046] As will be better described below, such constraining means 104' (Figures 1A, 1B and 6B) comprise means adapted to make an interlock, e.g. a tab or a slot, with corresponding constraining means made on the holder 2.

[0047] According to a possible embodiment, the interlock between the constraining means made on the holder 2 and the constraining means 104' arranged on the inner face of the front element 103, or on the reinforcing element 104, can be made more stable and effective by means of an optional gluing.

[0048] However, embodiments are not excluded in which the back surface of the holder 2 is constrained, and preferably fastened, to an inner face of the front cover element 103 of the case 1 or at the surface of the reinforcing element 104 folded in such a way as to be superimposed on the inner face of the front element 103 exclusively by gluing. Although it has been provided here that the holder 2 for the writing tools S is directly, or as will also be shown indirectly, constrained to the front element 103 of the die-cut sheet 10, as the person skilled in the art will appreciate well, there is nothing to prevent the holder 2 from being alternatively constrained, directly or indirectly, to the back cover element 101.

[0049] It should be noted that in principle any holder, preferably of the reclosable box-like type, for one or more writing tools, e.g. pens, pencils, pastels, markers, etc., can be used for the making of the case 1 according to

the present invention. However, as will be better discussed below, the holder 2 is preferably a box-like holder made from a die-cut paper material sheet 20 and comprises a holding portion 200 which preferably has a rectangular cross-section, in such a way as to be able to house a plurality of writing tools S, such as pens, pencils, pastels, markers, etc., positioned lined up inside the aforesaid holding portion 200.

[0050] As shown in figures 6A - 8, according to a preferred aspect of the invention, the holder 2 has a width substantially equal to or slightly lower than the width of the front cover element 103 to which it is connected and has a thickness that can be substantially equal to half the width of the spine cover element 102.

[0051] The method for the making of the case 1 according to the invention further provides for a step of constraining, preferably a fastening constraint (e.g. by gluing or through mechanical constraint with a metal spiral or by means of staples or more known to the person skilled in the art), at least one paper notebook 3, at the back cover element 101.

[0052] Generally, it is provided that a paper notebook 3 is directly or indirectly constrained to that back or front element 103, 101 of the cover 1 which is different from the front or back element 101, 103 at which the holder 2 is fastened.

[0053] As shown in figures 6A - 8, the notebook 3 has a width substantially equal to or lower than the width of the back cover element 101 to which it is connected and may have a thickness substantially equal to half the width of the spine cover element 102.

[0054] According to an aspect of the invention, the sum of the thickness of the holder 2 for the writing tools and of the paper notebook 3 is preferably equal to or less than the width measured orthogonally to the respective folding lines 11, 12 of the spine element 102, so as to allow the closed configuration of the case 1 to be properly reached. In an embodiment, where a die-cut sheet 10 without the reinforcing element 104 is used, a back surface of the holder 2 is fastened directly at an inner face of the front cover element 103 of the case 1 and a back surface of the notebook 3 is fastened at an inner face of the back cover element 101 of the case 1.

[0055] Next, the method according to the invention comprises a step of folding the plurality of cover elements 101, 102, 103 along such first folding lines 11, 12 in the closed configuration of the case 1.

[0056] In this closed configuration of the case shown in figure 8, the at least one holder 2 and the at least one paper notebook 3 face each other and are interposed between the front cover element 103 and the back cover element 101. In an open configuration of the case 1 shown in figure 7, the at least one holder 2 and the at least one paper notebook 3 are substantially aligned and lie substantially on the same plane defined by the inner face of the front cover element 103 and by the inner face of the back cover element 101 that are arranged coplanar to each other in the aforesaid open configuration by the

user.

[0057] In a preferred embodiment of the case 1, the die-cut sheet 10 comprises, as stated and as shown in figure 1, at least one cover reinforcing element 104 placed in the end position of the sheet 10 and seamlessly connected to one of the front cover element 101 and the back cover element 103 thanks to a folding line 13 belonging to the first folding lines 11, 12, 13 parallel to each other.

[0058] In particular, as shown in the implementation of figures 1A and 1B, the cover reinforcing element 104 has a free end and an end seamlessly connected to the front cover element 103 thanks to the folding line 13 belonging to the first folding lines 11, 12, 13.

[0059] In an embodiment not shown here, the reinforcing element 104 can be connected to the back cover element 101 thanks to a folding line parallel to the first folding lines 11, 12, 13 or there may be two reinforcing elements arranged on the sides of the back element 101 and the front element 103, respectively, and separated therefrom by folding lines belonging to the first folding lines 11, 12, 13.

[0060] In a possible embodiment, before the step of constraining/fastening the at least one holder 2 at one of the front or back cover elements 103, 101, the method comprises the further step of folding the cover reinforcing element 104 on the front or back cover element 103, 101 to which it is connected, preferably by means of the constraining means 104' and optionally of gluing, so that the holder 2 is subsequently constrained/fastened to the cover reinforcing element 104, at the front or back element 103, 101.

[0061] In a preferred embodiment shown in figures 6A and 6B, the at least one reinforcing element 104 is connected to the front cover element 103 and is folded thereon.

[0062] This way, the holder 2 is connected to the cover reinforcing element 104 at the front cover element 103, so that the notebook 3 is connected to the back cover element 101. This configuration is generally preferable because the positioning of the notebook 3 at the back cover element 101 facilitates the writing operation (for a right-handed user) when the case 1 is in the open configuration.

[0063] It should be noted that, although it has been described so far the fact that the at least one holder 2 and the at least one notebook 3 are preferably fastened to the inner surfaces of the cover of the case 1, generally by gluing or through mechanical constraining means (such as spirals, staples, etc.), other forms of constraint, even reversible, are possible, such as e.g. the insertion of one or more projecting fins of such holder 2 or notebook 3 in slots or seats formed on the elements of the same cover of the case 1.

[0064] For example, a back surface of the holder 2 for the writing tools S can be fin-shaped, i.e. it can be equipped with a free end and have a portion that can be inserted in a notch formed in the reinforcing element 104.

In this constraining mode, a gluing of the insertable portion of the back surface of the holder 2 to the same reinforcing element 104 may also be provided.

[0065] The cover elements 101, 102, 103, 104 of the die-cut sheet 10 are preferably four in number but as is clear to the person skilled in the art, for the making of a cover of such case 1, it is sufficient that their number be at least equal to three.

[0066] Embodiments are not excluded in which the die-cut sheet 10 comprises any number of the aforesaid elements, provided that they are higher than three, parallel to each other and preferably quadrangular and internally separated by first parallel folding lines, for the making of the cover of the case 1.

[0067] As already mentioned, in a particular embodiment shown in figure 1A, the die-cut sheet 10 comprises, as shown in figure 1, some panels 105, 106, e.g. quadrangular panels, which are joined to an element 101 or 103 of the sheet 10 through second folding lines 14, 15 perpendicular to the aforesaid first folding lines 11, 12, 13. More particularly, in the embodiment shown in figure 1A, a panel 105 is joined, through a folding line 14 orthogonal to the first folding lines 11, 12, 13, to the back cover element 101 which is intended to support the aforesaid paper notebook 3.

[0068] In this embodiment, the method therefore comprises the further step of folding the panels 105, 106 along the second folding lines 14, 15 in a closed configuration, so that the panels 105, 106 form at least part of a housing A of the case 1 adapted to house at least one additional writing tool S' or at least one writing aid.

[0069] Figures 6A, 6B and 7 show that the panels 105, 106 are folded along the second folding lines 14, 15 in such a way as to form a structure at least partially prismatic and especially at least "L"-shaped, and the method comprises the further step of making part of one of the panels 105, 106 adhere to the surface of the notebook 3 to fasten the "L" structure in position and thus make the aforementioned housing A.

[0070] As shown in figures 6A, 6B and 7, the notebook 3 is fastened to the respective back cover element 101, in such a way as to extend below the "L" structure formed by the panels 105, 106 and thus form a tubular holding structure, i.e. a housing A, between the notebook 3 and the "L" structure for at least one writing tool or aid.

[0071] Should the notebook 3 were fastened to the front cover element 103, then preferably also the panels 105, 106 would also be joined to such front element 103 to form the aforesaid housing A with the notebook 3.

[0072] Since the structure made with the panels 105, 106 is preferably "L"-shaped in order to form, with the notebook 3, a tubular holding structure having square or rectangular (or in any case polygonal) section with at least one end open to allow the insertion of a writing element, the number provided of panels 105, 106 is at least equal to two.

[0073] It is not excluded that this number may be higher.

[0074] It is therefore possible that the number of panels 105, 106 of the type referred above is sufficient to define, without cooperating with the paper notebook 3, an upper housing for a writing tool or aid, so that not necessarily the panels 105, 106 must be joined to the back or front element 101, 103 of the die-cut sheet 10 intended to support the notebook 3.

The box-like holder for a plurality of writing tools

[0075] As stated above, the case 1 according to a particular aspect of the invention comprises a holder 2 which can be made by folding a further die-cut sheet 20, or simply "die-cut element" 20, of paper material, provided with pre-set creases and globally denoted by the reference numeral 20 in figure 2 (as well as in the further accompanying figures).

[0076] It should be noted that here and hereinafter the term "crease" will mean a "folding line" de facto.

[0077] The die-cut paper material sheet 20, for the making of an integrated holder 2 for a writing tool, comprises a plurality of first parallel quadrangular elements 201, 202, 203, 204, 205, 205' mutually divided therein by first parallel creases 21, 22, 23, 24, 25 and at least one plurality of second parallel quadrangular elements 207, 208, 209 mutually divided therein by second parallel creases 26, 27, 28 transverse to the first parallel creases 21, 22, 23, 24, 25.

[0078] It should be noted that the first parallel elements 201, 202, 203, 204, 205, 205' and the second parallel elements 207, 208, 209 of the die-cut sheet 20 are here referred to as essentially quadrangular and, in particular, are square- or rectangular-shaped, since such is the shape with which these types of holders 2 are commonly made.

[0079] However, any other polygonal shape, even if not regular, that allows the making of a holder 2 by means of the method illustrated here, can be used.

[0080] In a preferred embodiment shown in figures 2A and 2B, the plurality of first parallel quadrangular elements 201, 202, 203, 204, 205, 205' comprises at least one first end element 201 adapted to form a closing wall 201 of the holder 2 and an element adapted to form at least part of a rear wall 203, 204 of the holder 2 in the closed configuration, which are separated from each other by a side element 202 of the holder through two parallel creases 21, 22 belonging to the aforesaid first parallel creases 21, 22, 23, 24, 25.

[0081] The term "end element 201" means an element placed in an end position, i.e. an element 201 having a free end and an end constrained by means of a crease 21 to a further element of the plurality of first parallel quadrangular elements 201, 202, 203, 204, 205, 205'.

[0082] In a possible embodiment, on the holder side element 202 and, in particular, at the crease 22 that divides the holder side element 202 from the rear wall 203, 204 of the holder, a closing tab 202' is formed (shaped).

[0083] The length of the first creases 21, 22, 23, 24,

25 determines the width of the holder 2 which, as stated above, is equal to or lower than the width of the cover element 103, 101 to which the holder is constrained.

[0084] In a possible embodiment shown in figures 2A and 2B, the plurality of second parallel elements 207, 207, 209 comprises two perimeter edges 207, 209 between which an intermediate element 208 is interposed, i.e. two perimeter edges 207, 209 which are separated from each other by an intermediate element 208 through two parallel creases 27, 28 belonging to the aforesaid second parallel creases 26, 27, 28.

[0085] It should be noted that the perimeter edges 207, 209 have rectangular shape and are adapted to form two spine (or side) walls of the holder 2 in the closed configuration, while the intermediate element 208 can have a square or rectangular shape, with a surface area more extended than the two adjacent perimeter edges 207, 209, and is adapted to form a front wall 208 of the holder 2 in the closed configuration.

[0086] As shown in figures 2A and 2B and in figures 4A - 7, the front wall 208 comprises an opening 208' adapted to show at least in part the contents of the holder 2 and which is therefore useful for a user to view the contents of the holder 2, in particular, the presence of the writing tools S housed in the holder 2.

[0087] The plurality of second parallel elements 207, 207, 209 is connected, through one of the second creases 26, to the element 204 of the plurality of first parallel quadrangular elements 201, 202, 203, 204, 205, 205', which is adapted to form at least part of the rear wall 203, 204 of the holder 2 in the closed configuration.

[0088] Moreover, as shown in figure 2, the die-cut sheet 20 according to the invention comprises at least one plurality of quadrangular strips 210, 211 mutually divided therein by third parallel creases 29, 30 transverse to the second parallel creases 26, 27, 28.

[0089] The plurality of quadrangular strips 210, 211 is connected, through one of the third creases 29, to the intermediate element 208 of the plurality of second parallel quadrangular elements 207, 208, 209, which is adapted to form the front wall 208 of the holder 2 in the closed configuration.

[0090] The quadrangular strips preferably have a rectangular shape.

[0091] The die-cut sheet 20 according to the invention further comprises a perimeter flap 212 connected, through a crease 31 (transverse to the first parallel creases 21, 22, 23, 24, 25), to the rear wall 204 of the plurality of first parallel quadrangular elements 201, 202, 203, 204, 205, 205'.

[0092] In a preferred embodiment, the two perimeter edges 207, 209 of the plurality of second quadrangular elements and the perimeter flap 212 have the same shape and size, i.e. they have a rectangular shape, with the same width and height.

[0093] In a possible embodiment shown in figure 2B, 3C, 3D, 4B, the die-cut sheet 20 comprises a second end element 205 fin-shaped or equipped with a free end,

which is seamlessly connected to the rear wall 204 of the holder, it is mutually separated from the latter by means of a crease 24 of the first parallel creases 21, 22, 23, 24, 25 and is adapted to form a supporting element 205 of the holder 2. The term "end element 205" means an element placed in an end position, i.e. an element 205, 205' having a free end and an end constrained by means of a crease 24 to a further element of the plurality of first parallel quadrangular elements 201, 202, 203, 204, 205, 205'.

[0094] Moreover, in a possible embodiment shown in figures 2A, 3A, 3B, 4A and 5, the aforesaid supporting element 205 comprises a terminal strip 205' delimited by a crease 25 of the first parallel creases 21, 22, 23, 24, 25.

[0095] In a possible embodiment, a slot 205" is formed (shaped) on the terminal strip 205' and, in particular, at the crease 25 that delimits this terminal strip 205' with respect to the supporting element 205.

[0096] The first quadrangular elements 201, 202, 203, 204, 205, 205' are at least four (five), the second quadrangular elements 207, 208, 209 are at least three and the quadrangular strips 210, 211 are at least two.

[0097] The method for the making of the case 1 can comprise the step of making the holder 2 by folding a die-cut paper material sheet 20 described above.

[0098] More generally, a holder of the type comprising a support that can be raised is described, for example, in patent documents US3310165 and US2036822 which describe a holder for pencils or similar writing tools, which is made by means of paper material folding panels and which can assume an idle configuration and a supporting configuration by means of the mutual movement of such foldable panels.

[0099] The step of making the holder 2 from the die-cut sheet 20, according to a particular aspect of this invention, comprises at least the following steps of:

- folding the perimeter flap 212 seamlessly connected to the rear wall 204 of the holder 2 toward the same rear wall 204. It should be noted that in a preferred embodiment, the perimeter flap 212 is folded to form an angle of 90° with the rear wall 204;
- folding the plurality of quadrangular strips 210, 211 along the third creases 29, 30 toward the front wall 208 of the plurality of second parallel quadrangular elements 207, 208, 209, so that the quadrangular strips 210, 211 form a base for closing the holder 2. In particular, as shown in figures 3A, 3B and 7, this closing base acts as a lower supporting base for the writing elements S housed in the holder 2;
- folding the plurality of second quadrangular holder elements 207, 208, 209 along the second creases 26, 27, 28 toward the rear wall 204 of the plurality of first parallel quadrangular elements 201, 202, 203, 204, 205, 205' to form the holding portion 200 of the holder 2. Preferably, as shown in the attached figures, the holding portion 200 comprises a housing

for the writing elements S housed in the holder 2 and has a rectangular section;

- making the perimeter flap 212 adhere to the surface of a quadrangular element 209 of the plurality of second parallel quadrangular elements 207, 208, 209 placed in end position, to fasten the holding portion 200 of the holder 2 in the closed configuration;
- folding the plurality of first parallel quadrangular elements 201, 202, 203, 204, 205, 205' along the first creases 21, 22, 23, 24, 25, so that the quadrangular element placed in the end position 201 is folded toward the aforesaid front wall of the holder 208 to form the closing wall 201 of the holder 2. As shown in figure 7, at least part of the closing wall 201 can be inserted inside the holding portion 200 of the holder 2, below the front wall 208 to make the closed configuration of the holder 2. In an embodiment in which the first parallel quadrangular elements 201, 202, 203, 204, 205, 205' comprise the end element 205, 205' adapted to form a supporting element 205 of the holder 2, the method further comprises the additional steps of:
 - folding the end element 205, 205' below the rear wall 204 along one of the first parallel creases 24,
 - fastening the end element 205 at one of the front 103 or back 101 cover element of the case 1, in particular and preferably by gluing such end element 205 to the element 103 or 101 which does not support the paper notebook 3.

[0100] In a preferred embodiment shown in figures 6A and 6B, in which the sheet 10 defining the cover of the case 1 also comprises a reinforcing element 104, the end element 205 adapted to make the supporting element 205 is fastened at the cover reinforcing element 104 folded on the front cover element 103.

[0101] In other words, according to this configuration, the holder 2 comprises an end element 205 adapted to make a supporting element 205 which is interposed between the rear wall 204 of the holder 2 and the front 103 (or back 101) cover element of the case 1 to which the holder 2 is connected. In a possible embodiment shown in figures 2A, 3A, 3B, 4A and 5, the rear wall 203, 204 of the holder 2 comprises a fixed portion 204 and a movable portion 203 and the aforesaid supporting element 205 comprises a terminal strip 205' delimited by a crease 25 of the first parallel creases 21, 22, 23, 24, 25.

[0102] This way, in an open configuration of the case 1, the closing wall 201 and the movable portion 203 of the rear wall 203, 204 (together with the side element of the holder 202) can be folded along the first creases 21, 22, 23 below the fixed portion 204 of the rear wall 203, 204 of the holder 2, so that the surface of the closing wall 201 lies on the same plane as the supporting element 205 and, in particular, is placed in contact with the surface of the supporting element 205 and the movable portion 203 of the rear wall 203, 204 forms an angle β between 80° and 100° with the supporting element 205.

[0103] As shown in figures 5, 6A in the open configuration of the case 1, the fixed portion 204 of the rear wall 203, 204 forms an angle α between 15° and 45° with the supporting element 205 and with the front cover element 103 of the case 1 to which the holder 2 is connected.

[0104] Preferably, as shown in figures 6A and 6B, in order to fasten such a raised position of the holder, the closing tab 202' of the holder side element 202, also folded below the rear wall 204, is inserted inside the constraining means 104' made on the sheet 10, in particular in the slot 104' made at the front cover element 103 or at the reinforcing element 104 folded in such a way as to be superimposed on the inner face of the front element 103. In the possible embodiment of figures 5 and 6A, in which the aforesaid supporting element 205 comprises the terminal strip 205', in order to fasten such a raised position of the holder, the closing tab 202' of the holder side element 202, also folded below the rear wall 204, is further inserted inside the slot 206' of the supporting panel wall 205, 205' and is subsequently inserted in the slot 104' made at the front cover element 103, or at the reinforcing element 104 folded in such a way as to be superimposed on the inner face of the front element 103. As shown in figures 6A and 6B, the configurations described allow to make a raised support for the holder 2 with respect to the cover of the case 1.

[0105] In a possible further embodiment, the holder 2 and/or the paper notebook 3 are fastened to the respective cover element 101, 103, 104 by gluing.

[0106] Other modes of fastening the notebook 3 to the cover of the case 1 may be provided. If the panels 105, 106 are provided to form a housing A with the notebook 3, any other modes of fastening the latter to the respective back cover element 101 is possible, provided that the notebook 3, when the case 1 is complete, extends below the "L" structure to house a writing tool or aid.

[0107] Modifications or improvements that are dictated by contingent or particular reasons, without thereby departing from the scope of the invention, may be made to the invention as described herein.

Claims

1. Method for the making of a case (1) with at least one integrated holder (2) for one or more writing tools (S) and at least one paper notebook (3), said case (1) can be made by folding a die-cut paper material sheet (10) adapted to form at least partially the cover (C) of said case (1), and which has:

a plurality of cover elements (101, 102, 103, 104) mutually separated therein by corresponding first folding lines (11, 12, 13) parallel to each other, where said sheet (10) is reversibly foldable along said first folding lines (11, 12, 13) between a closed configuration and an open configuration for forming at least one front cover el-

ement (103), a back cover element (101) and a spine cover element (102), the method comprising at least the following steps of:

- fastening said at least one holder (2) to said at least one die-cut sheet (10) at one of said front or back cover elements (103, 101);
- fastening said at least one paper notebook (3), at one of said front or back cover elements (101, 103) different from said front or back cover element (101, 103) at which said holder (2) is placed,
- folding said plurality of elements (101, 102, 103, 104) along said first folding lines (11, 12, 13) in said closed configuration,

where, in said closed configuration, said at least one holder (2) and said at least one paper notebook (3) face each other and are interposed between said front cover element (103) and said back cover element (101).

2. Method according to claim 1, wherein said sheet (10) comprises at least one cover reinforcing element (104) placed at the end position of said sheet (10) and seamlessly connected by means of a folding line (13) belonging to said first folding lines (11, 12, 13) parallel to each other, to one of said front cover element and said back cover element (103, 101), wherein, before said step of fastening said at least one holder (2) at one of said front or back cover elements (103, 101), said method comprises the further step of folding said cover reinforcing element (104) on said front or back cover element (103, 101) to which it is connected, so that said holder (2) is subsequently fastened to said cover reinforcing element (104).
3. Method according to one of the preceding claims, wherein said sheet (10) comprises a plurality of panels (105, 106) mutually separated therein by corresponding second folding lines (14, 15) which are parallel to each other and arranged transversely to said first folding lines (11, 12, 13), said plurality of panels (105, 106) being seamlessly connected to one of said front cover element or said back cover element (101, 103) placed at the end position of said sheet (10), where said method comprises the further step of folding said panels (105, 106) along said second folding lines (14, 15) in a "L" configuration, so that said panels (105, 106) form at least part of a housing element (A) of said case (1).
4. Method according to claim 3, where said panels (105, 106) are folded along said second folding lines (14, 15) in such a way as to form a "L" structure and said method comprises the further step of making at

least part of one of the aforesaid panels (105, 106) adhere to the surface of said notebook (3), to make a tubular structure.

5. Method according to claim 4, wherein said notebook (3) is fastened to said front or back cover element (103, 101) so that said notebook (3) extends below said "L" structure. 5
6. Method according to one of the preceding claims, which comprises the step of making said holder (2), wherein said holder (2) can be made by folding a die-cut paper material sheet (20) which has: 10
 - a plurality of first parallel quadrangular elements (201, 202, 203, 204, 205, 205') mutually divided therein by first parallel creases (21, 22, 23, 24, 25), 15
 - a plurality of second parallel quadrangular elements (207, 208, 209) mutually divided therein by second parallel creases (26, 27, 28) transverse to the first parallel creases (21, 22, 23, 24, 25), wherein said plurality of second parallel quadrangular elements (207, 208, 209) is connected, through a crease (26) of said second parallel creases (26, 27, 28), to an element (204) of said plurality of first parallel quadrangular elements (201, 202, 203, 204, 205, 205') which is adapted to form at least part of a rear wall (204) of the holder (2) in the closed configuration, 20
 - and a plurality of quadrangular strips (210, 211) mutually divided therein by third parallel creases (29, 30) transverse to said second parallel creases (26, 27, 28), wherein said plurality of quadrangular strips (210, 211) is connected, through a crease (29) of said third parallel creases (29, 30), to an intermediate element (208) of said plurality of second parallel quadrangular elements (207, 208, 209), which is adapted to form a front wall (208) of the holder (2) in the closed configuration, 25
 - and a perimeter flap (212) connected, through a crease (31) transverse to said first parallel creases (21, 22, 23, 24, 25), to said rear wall (204) of the holder; where said step of making said holder (2) comprises at least the following steps of: 30
 - folding said perimeter flap (212) seamlessly connected to said rear wall (204) of the holder (2) toward said rear wall (204), 35
 - folding said plurality of quadrangular strips (210, 211) along said third creases (29, 30), toward said front wall (208) of said plurality of second parallel quadrangular elements (207, 208, 209), so that said quadrangular strips (210, 211) form a base for closing said holder (2), 40

- folding said plurality of second quadrangular holder elements (207, 208, 209) along said second creases (26, 27, 28), toward said rear wall (204) of said plurality of first parallel quadrangular elements (201, 202, 203, 204, 205, 205'), to form the holding portion (200) of the holder (2),

- making said perimeter flap (212) adhere to the surface of a quadrangular element (209) of said plurality of second parallel quadrangular elements (207, 208, 209), which is placed in the end position, to fasten the holding portion (200) of the holder (2) in said closed configuration,

- folding said plurality of first parallel quadrangular elements (201, 202, 203, 204, 205, 205') along said first creases (21, 22, 23, 24, 25), so that a quadrangular element placed in the end position (201) is folded toward said front wall of the holder (208), to form a closing wall (201) of the holder (2).

7. Method according to claim 6, wherein said plurality of first parallel quadrangular elements (201, 202, 203, 204, 205, 205') comprises an end element (205, 205') seamlessly connected to said rear wall (204) of the holder and adapted to form a supporting element (205) of the holder (2), said method comprising the further steps of 25
 - folding said supporting element (205, 205') below said rear wall (204) along one of said first parallel creases (24), 30
 - fastening at least part of said supporting element (205) at one of said front (103) or back (101) cover element of said case (1). 35
8. Method according to claim 7, wherein said rear wall (203, 204) of said holder (2) comprises a fixed portion (204) and a movable portion (203), in such a way that: 40

in an open configuration of said case (1), said closing wall (201) and said movable portion (203) of said rear wall (203, 204) can be folded along said first creases (21, 22, 23) below said fixed portion (204) of said rear wall (203, 204) of the holder (2), so that the surface of said closing wall (201) lies on the same plane as said supporting element (205) and said movable portion (203) of said rear wall (203, 204) forms an angle (β) between 80° and 100° with said supporting element (205). 45
9. Method according to claim 8 wherein in the open configuration of said case, (1) the fixed portion (204) of said rear wall (203, 204) forms an angle (α) between 15° and 45° with said supporting element (205) and with said front (103) or back (101) cover element of said case (1) to which said holder (2) is 50

connected.

10. Method according to one of the preceding claims, wherein said holder (2) and/or said paper notebook (3) are fastened to a respective cover element (101, 103, 104) by gluing. 5

11. Die-cut paper material sheet (20) for the making of an integrated holder (2) for one or more writing tools, comprising: 10

- a plurality of first parallel quadrangular elements (201, 202, 203, 204, 205, 205') mutually divided therein by first parallel creases (21, 22, 23, 24, 25), 15

- and at least one plurality of second parallel elements (207, 208, 209) mutually divided therein by second parallel creases (26, 27, 28) transverse to the first parallel creases (21, 22, 23, 24, 25), wherein said plurality of second parallel elements (207, 208, 209) is connected, through one of said second creases (26), to an element (204) of the plurality of first parallel quadrangular elements (201, 202, 203, 204, 205, 205') adapted to form at least part of a rear wall (204) of the holder (2) in the closed configuration, 20

and at least one plurality of quadrangular strips (210, 211) mutually divided therein by third parallel creases (29, 30) transverse to said second parallel creases (26, 27, 28), wherein said plurality of quadrangular strips (210, 211) is connected, through one of said third creases (29), to an intermediate element (208) of the plurality of second parallel quadrangular elements (207, 208, 209) adapted to form a front wall (208) of the holder (2) in the closed configuration, 25

and a perimeter flap (212) connected, through a crease (31) transverse to said first parallel creases (21, 22, 23, 24, 25), to said rear wall (204) of the plurality of first parallel quadrangular elements (201, 202, 203, 204, 205, 205'), 30

said first quadrangular elements (201, 202, 203, 204, 205, 205') being at least four, said second quadrangular elements (207, 208, 209) being at least three, said quadrangular strips (210, 211) being at least two. 35 40 45

12. Die-cut sheet (20) according to claim 11, wherein said plurality of first parallel quadrangular elements (201, 202, 203, 204, 205, 205') comprises a first end element (201) adapted to form a closing wall (201) of said holder (2) and a second end element (205) which is seamlessly connected to said rear wall (204) of the holder and which is adapted to form a supporting element (205) of the holder (2). 50 55

13. Case (1) comprising an integrated holder (2) for one or more writing tools, made according to the method

claimed in any one of claims 1 to 10.

14. Case (1) according to claim 13, wherein a die-cut sheet (20) according to claim 11 or 12 is used for the making of said holder (2).

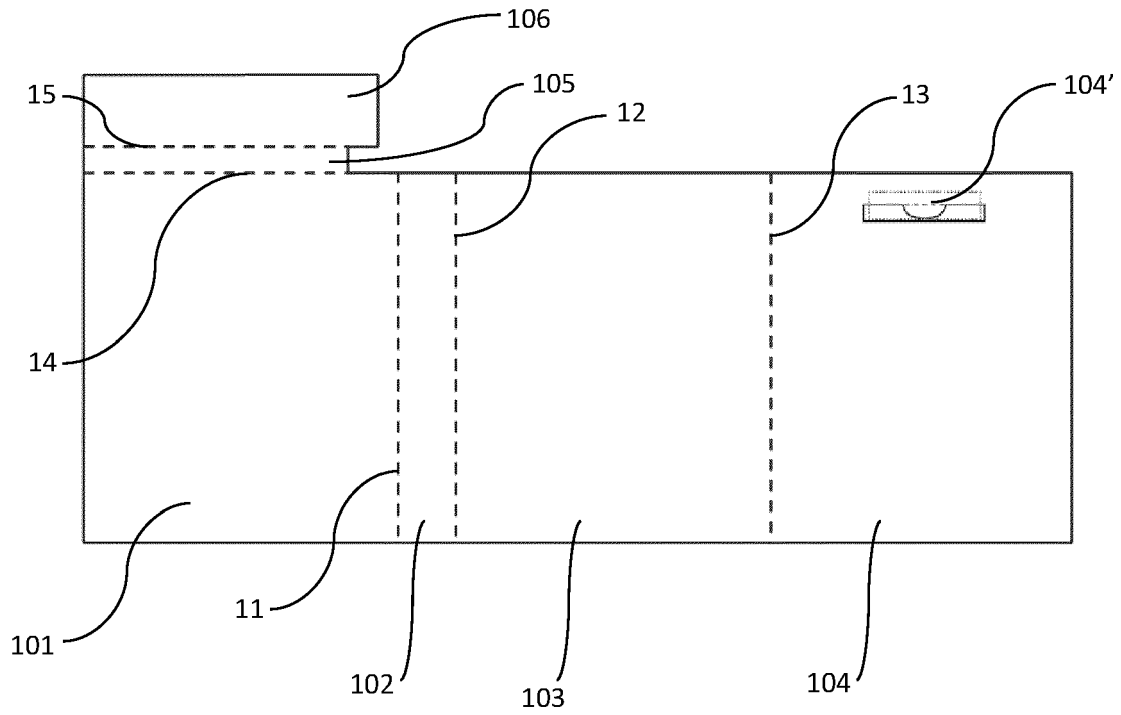


Figure 1A

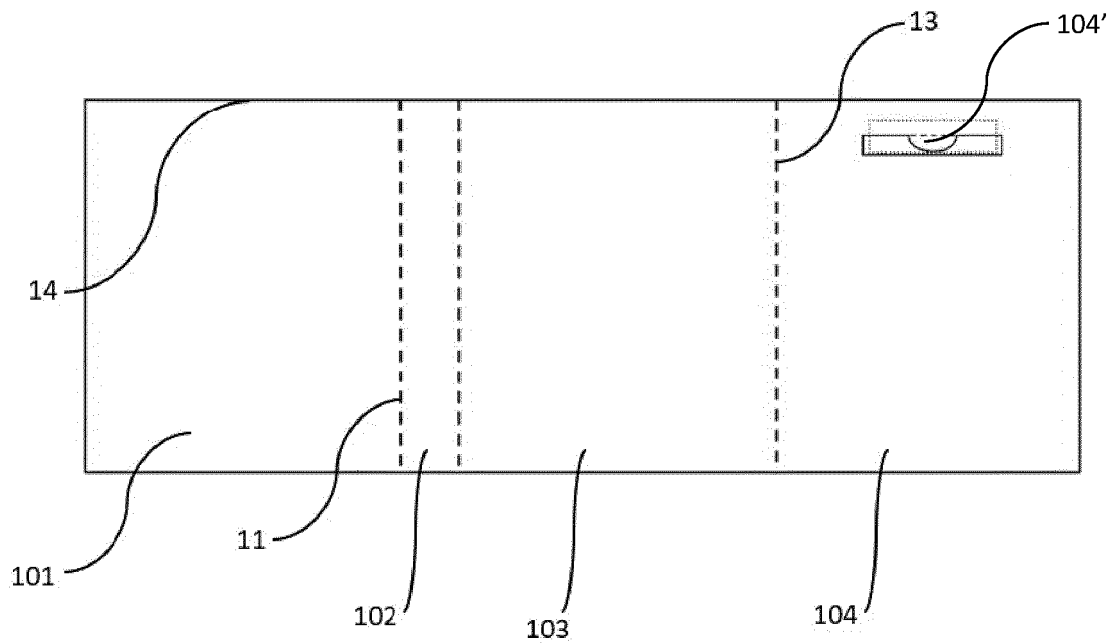


Figure 1B

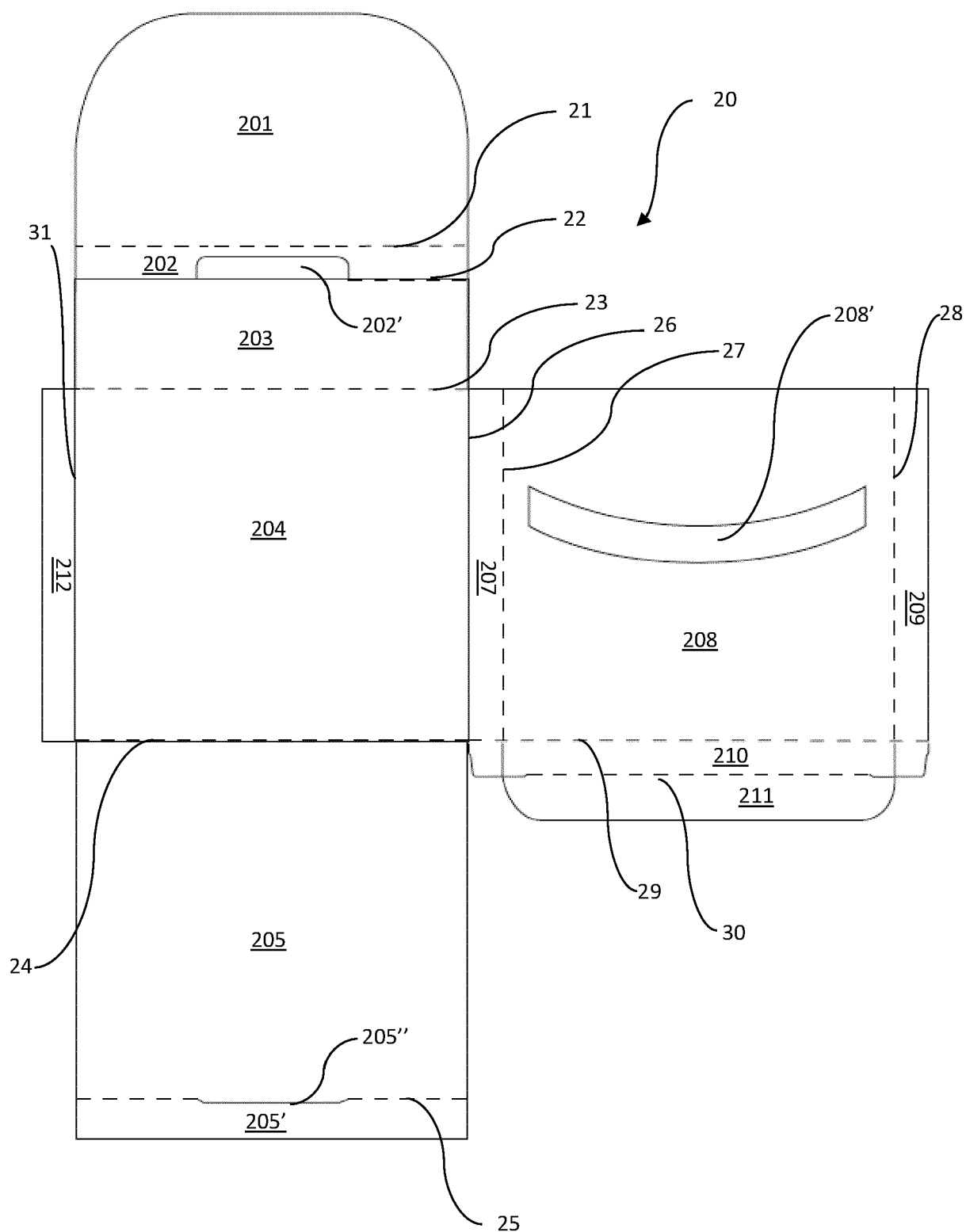


Figure 2A

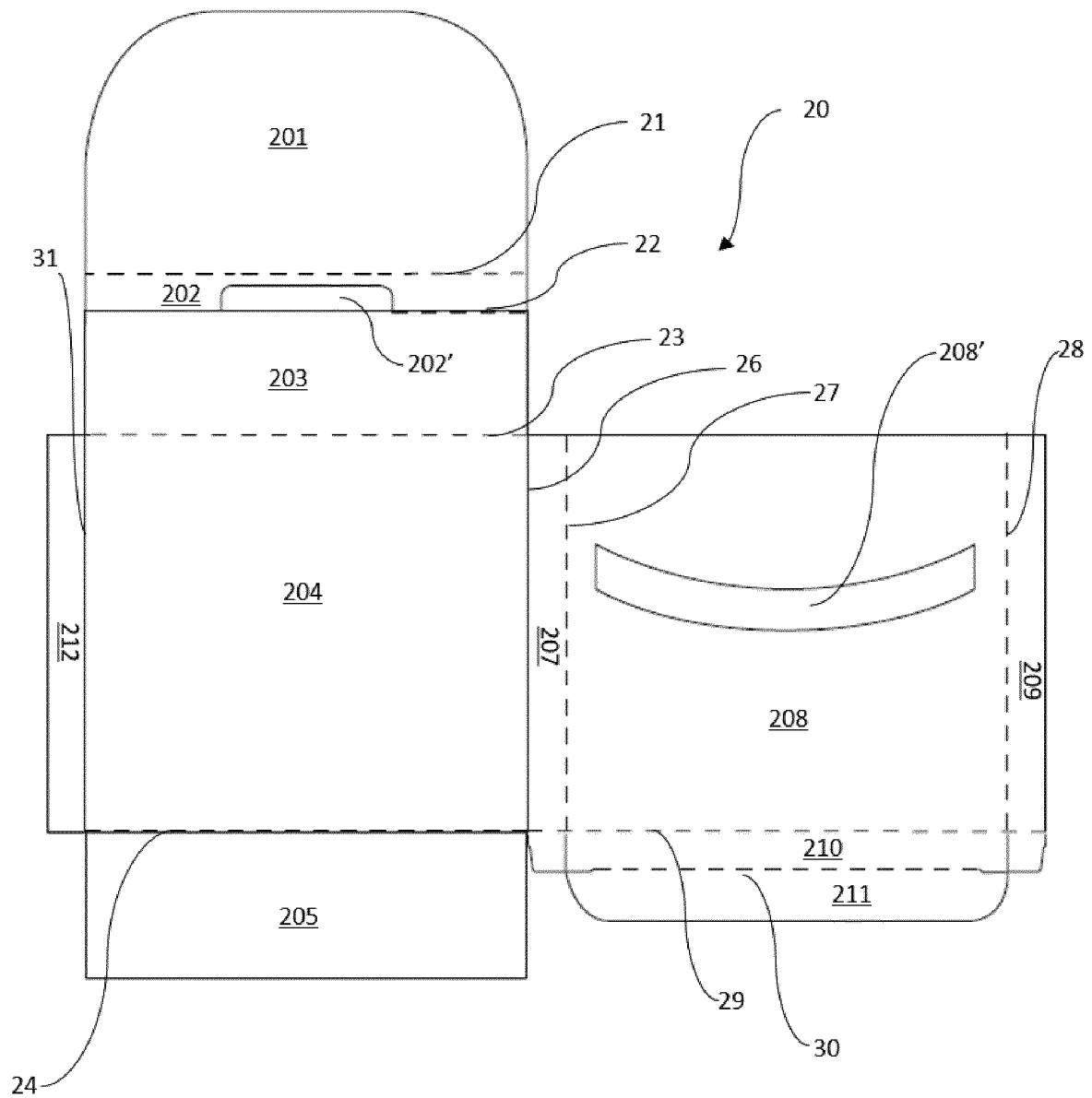


Figure 2B

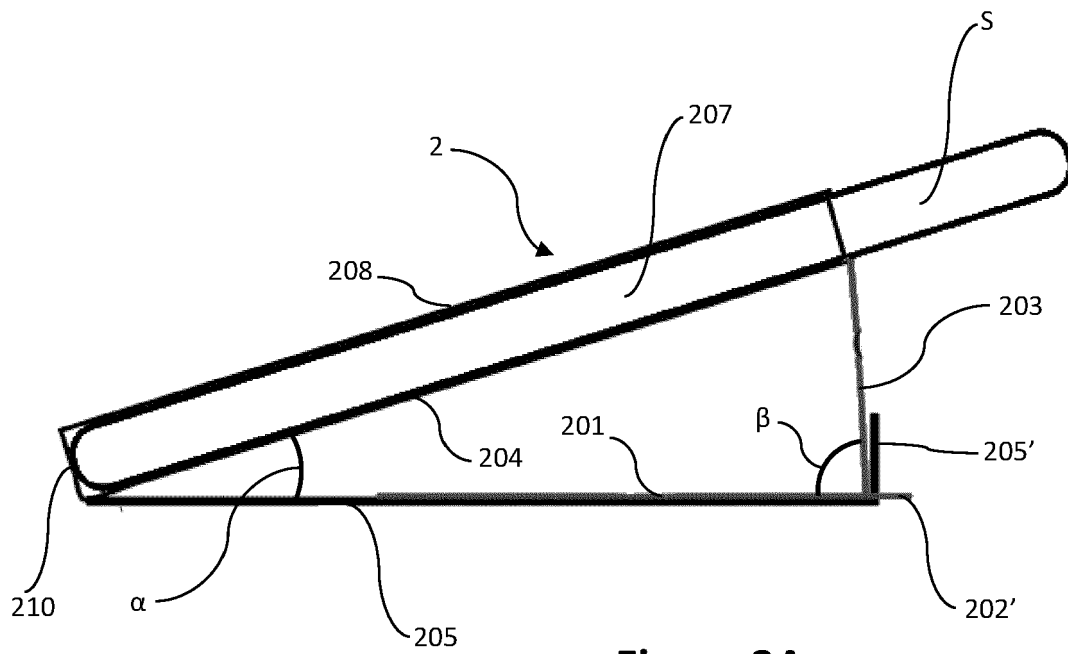


Figure 3A

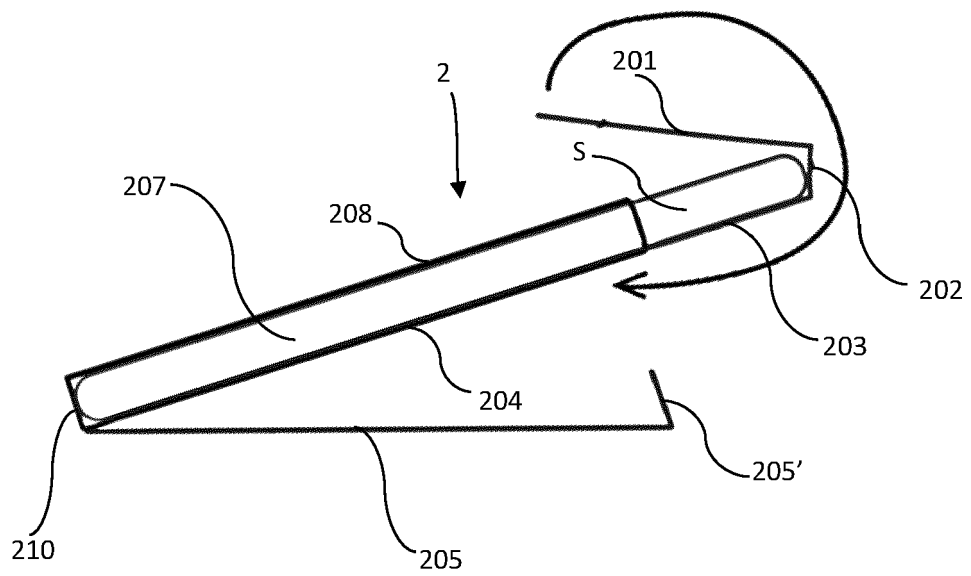


Figure 3B

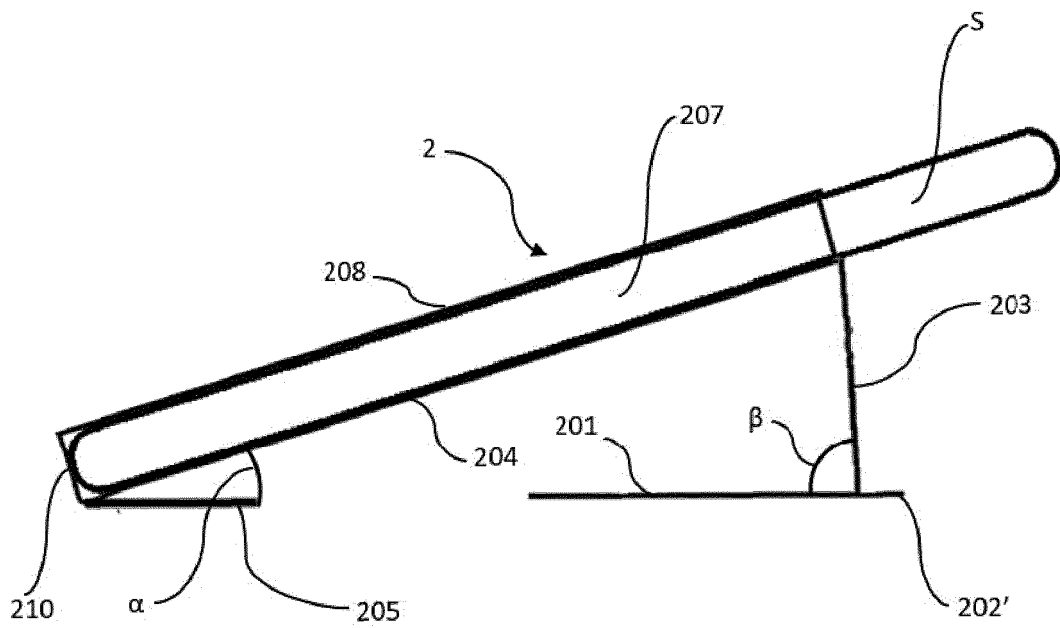


Figure 3C

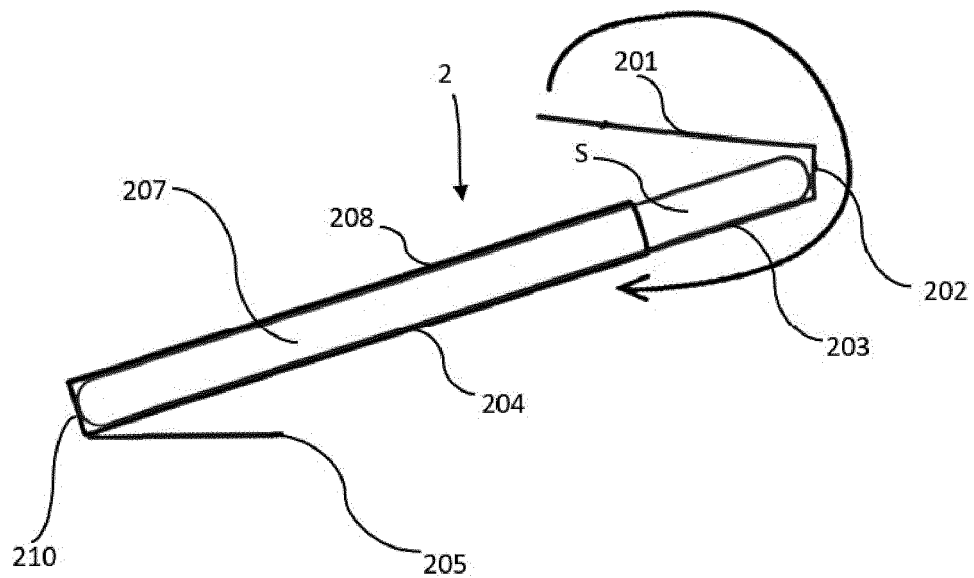


Figure 3D

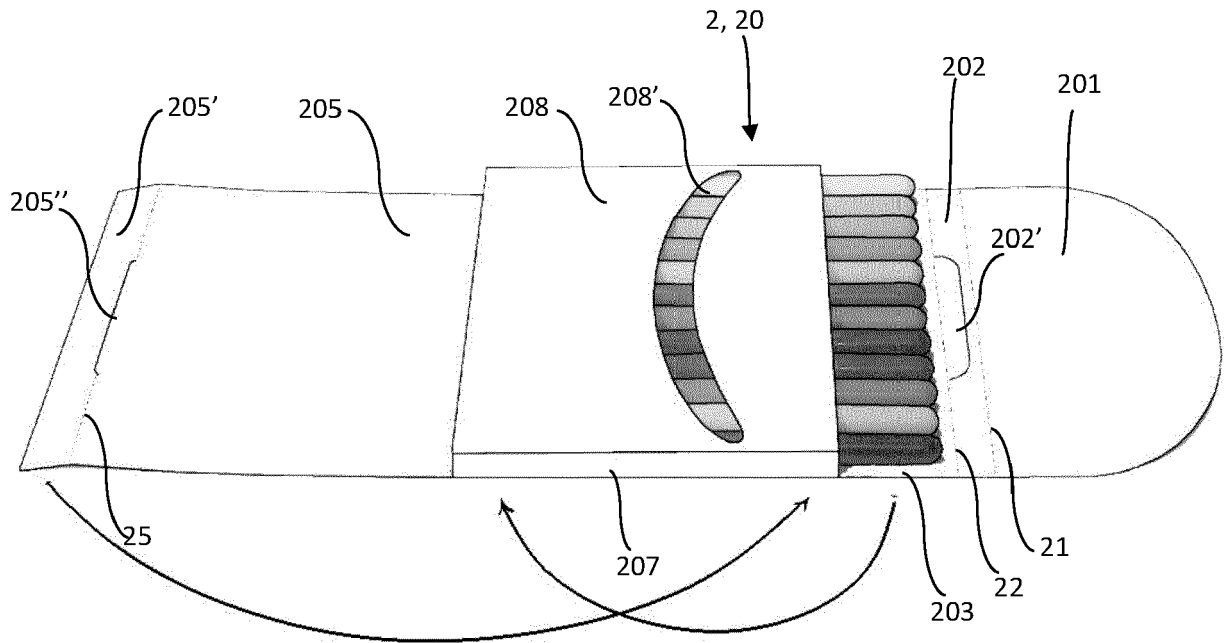


Figure 4A

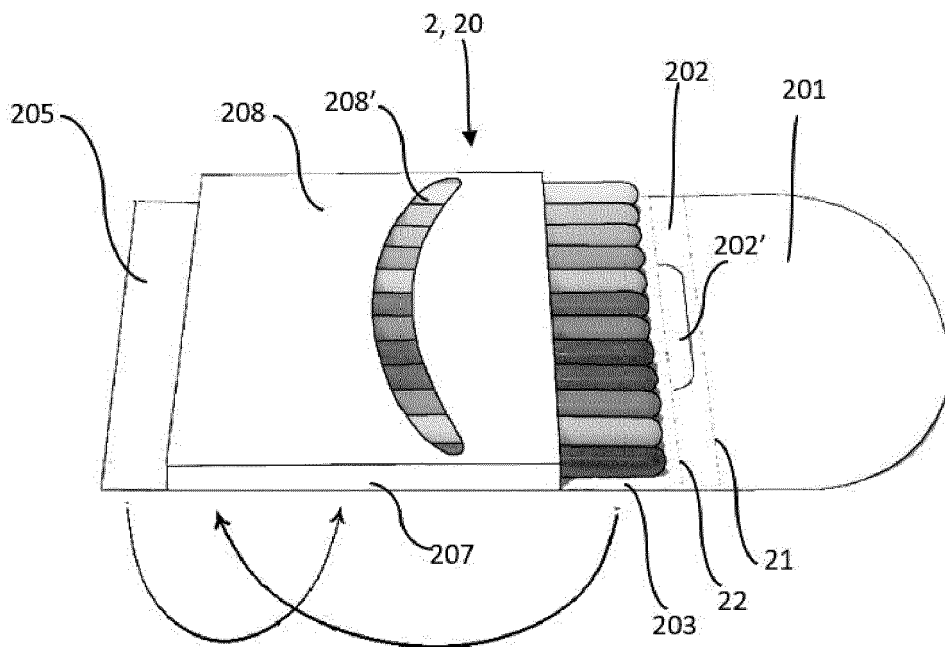


Figure 4B

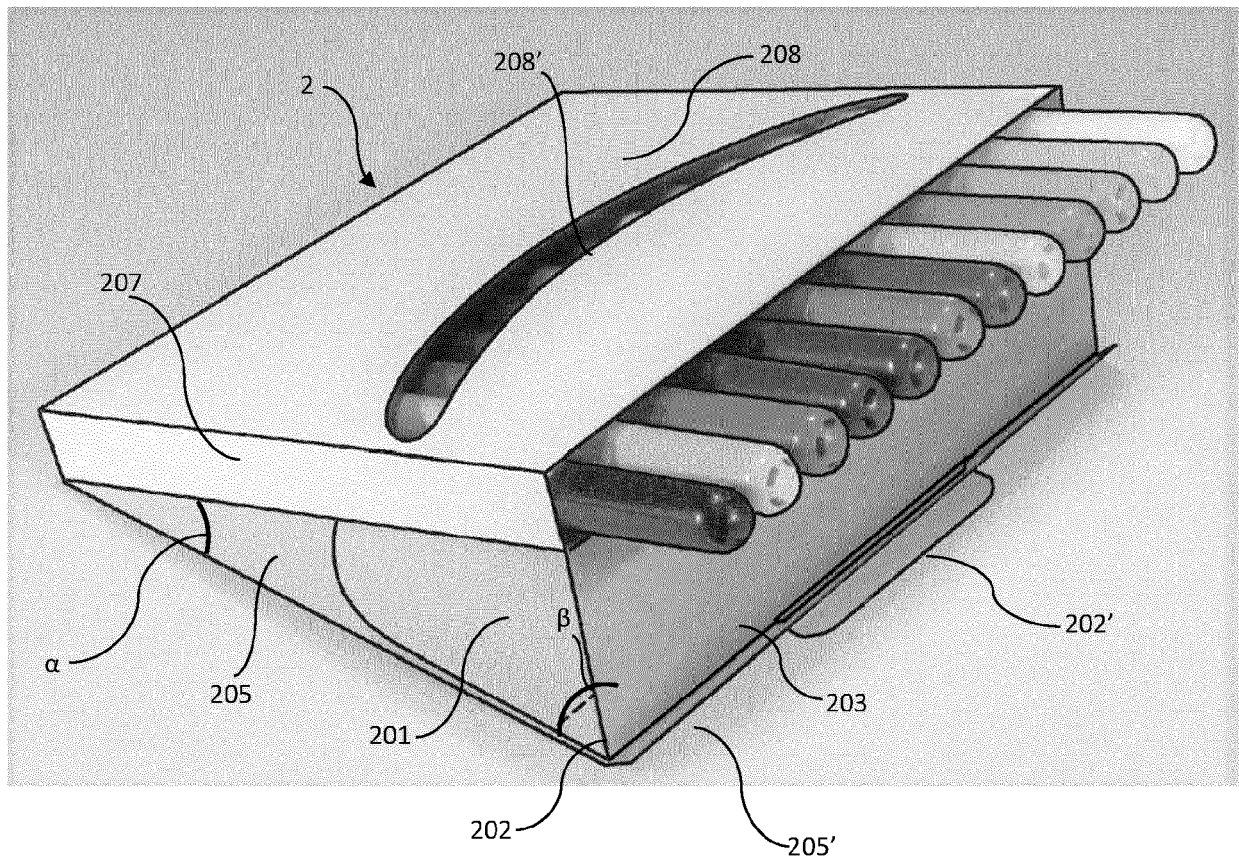


Figure 5

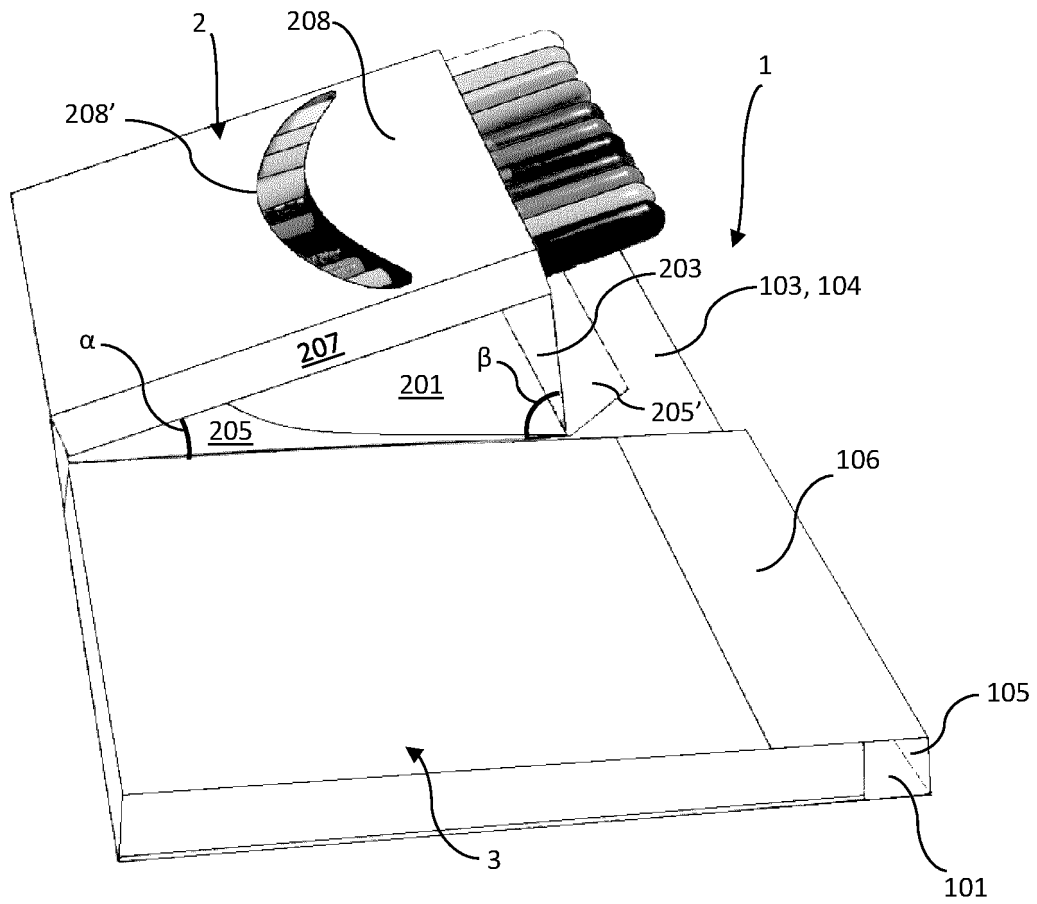


Figure 6A

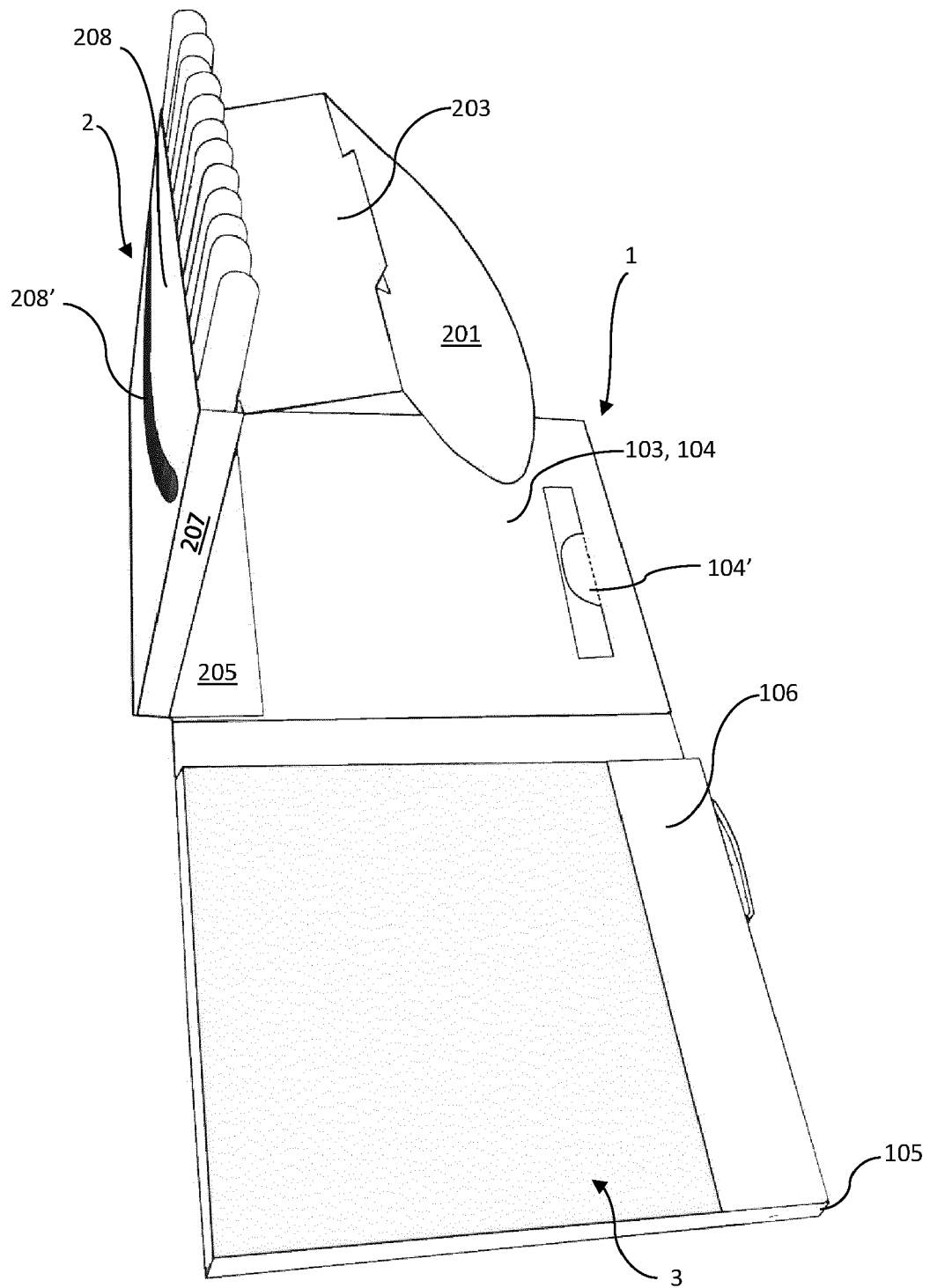


Figure 6B

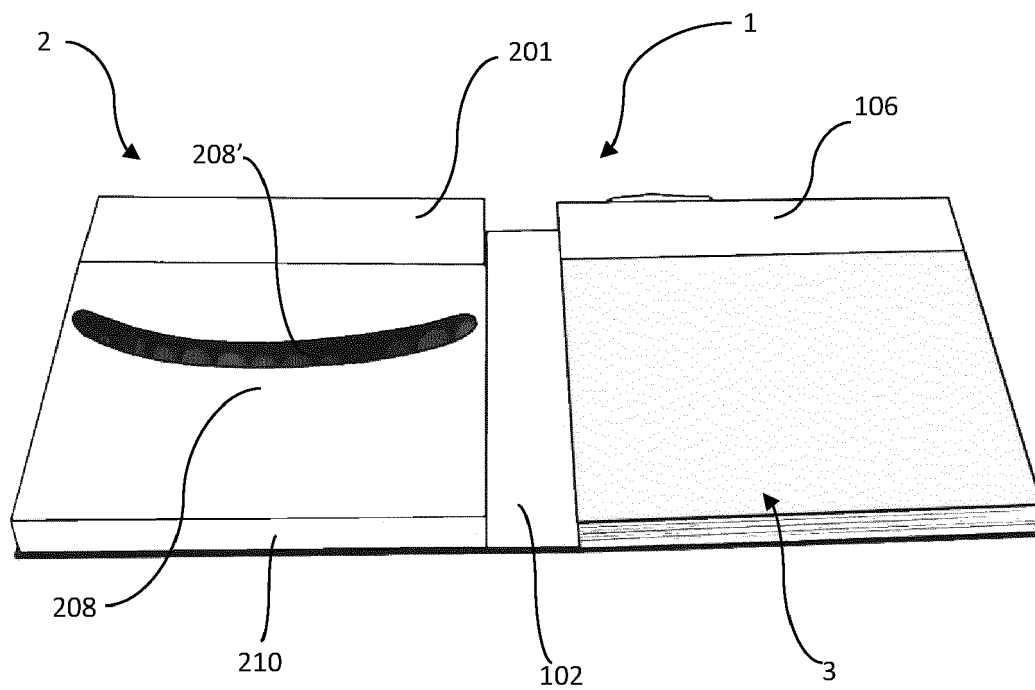


Figure 7

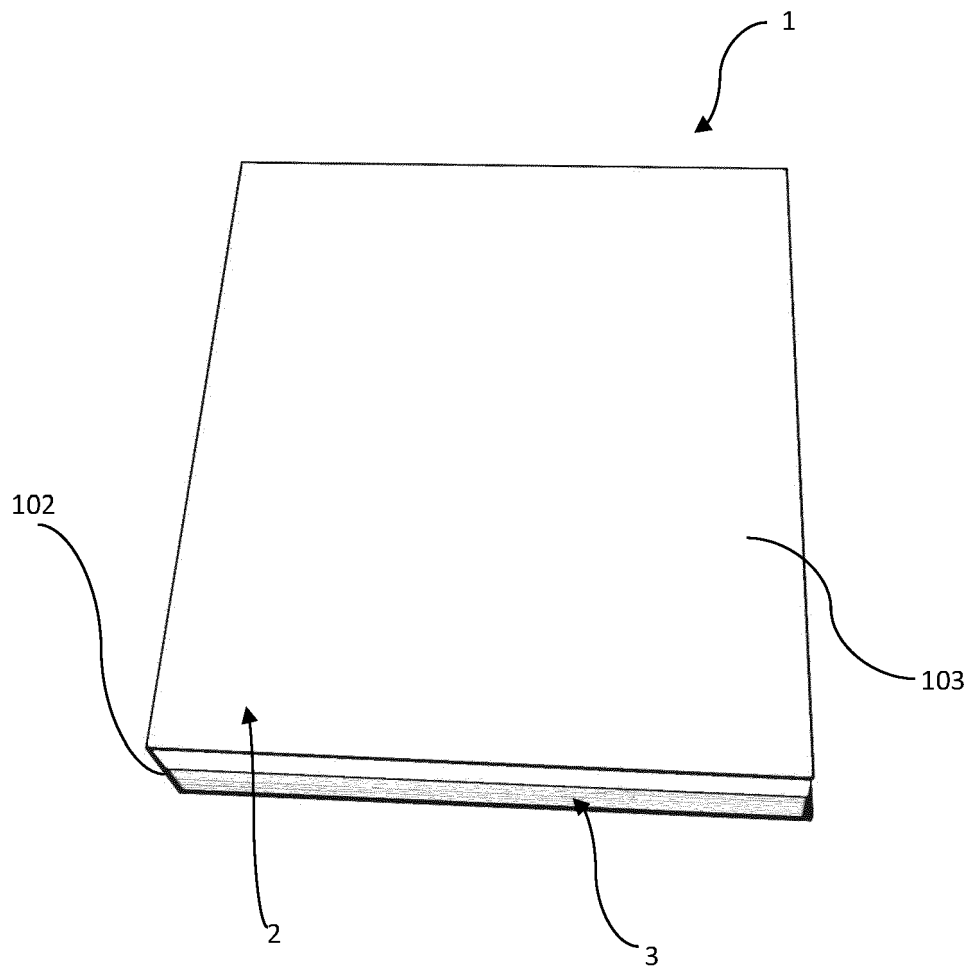


Figure 8



EUROPEAN SEARCH REPORT

Application Number

EP 22 15 2482

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EPO FORM 1503 03.82 (P04C01)

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	US 1 524 647 A (WILLIAM ALBRECHT) 3 February 1925 (1925-02-03)	1-6, 11-14	INV. B42B7/00
A	* the whole document * -----	7, 8	B42D3/12 B42D5/00
Y	US 4 318 471 A (HUTTON ROBERT P) 9 March 1982 (1982-03-09) * column 2, line 54 - column 5, line 16; claims; figures *	1-14	B42D5/04 B42F11/00 A45C11/00 A45C11/36 B42D1/00 A45C11/34
Y	US 2009/020998 A1 (GERNENZ DEBORAH J [US]) 22 January 2009 (2009-01-22)	1-6, 11-14	
A	* paragraphs [0017] - [0027]; claims; figures 3, 5 *	7, 8	
A	US 597 481 A (ELIZABETH K. GRAHAM) 18 January 1898 (1898-01-18) * the whole document *	1-14	
A	US 2 845 105 A (ELEANOR NEAS) 29 July 1958 (1958-07-29) * abstract; claims; figures *	1-14	
A	US 4 391 457 A (GASSNER PAUL B [US]) 5 July 1983 (1983-07-05) * the whole document *	1-14	TECHNICAL FIELDS SEARCHED (IPC) B42B B42D B42F A45F A45C A47B
Y	EP 3 323 625 A1 (FIORDO S R L [IT]) 23 May 2018 (2018-05-23) * abstract; claims; figures *	1-14	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 29 June 2022	Examiner Zacchini, Daniela
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