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(54) **Case particularly for containing eyeglasses or optical devices**

Behältnis, insbesondere für Brillen oder sonstige optische Geräte

Conteneur en particulier pour lunettes ou autre instrument optique

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Description

[0001] The present invention relates to a case that is used particularly to contain eyeglasses or other optical devices. Such a case is known from FR-A-2 814 437.

[0002] Currently it is known to use, in order to store and protect eyeglasses, cases usually made of plastic material or other material whose main characteristic is to be substantially rigid in order to absorb any accidental impacts and protect the lenses against breakage; such case can be made of two separate half-shells mutually connected by means of a metallic hinge or, if the case is made of plastics, obtained by molding as a single part, in which the hinge is constituted by a bridge that connects two half-shells and is suitable to allow the two half-shells to be arranged mutually adjacent

[0003] The main drawback of these known types of case is that a soft material, suitable to protect, without scratching, both the lenses and the temples or the front of the eyeglasses must be associated inside the half-shells.

[0004] For this purpose it is known for example to apply, at the internal surface of the half-shells, a light jersey, which is usually applied by means of adhesive.

[0005] However, this solution has high production costs, because labor is required to perform it, as this application cannot be automated.

[0006] Moreover, if plastic materials are used, it is necessary to reach a compromise between the degree of rigidity of the material used in order to obtain a sufficiently rigid case and at the same time obtain a sufficiently elastic hinge movement: since it is more important to achieve resistance to impacts, the selected rigidity entails, after a certain time, breakage of the hinge due to the opening and closing actions applied to the half-shells, particularly in cold environments.

[0007] The aim of the present invention is to solve the described problems, eliminating the drawbacks of the cited known art, by providing a case that allows optimum containment of eyeglasses or of an optical device, at the same time protecting the integrity thereof against any scratches or abrasions caused by scraping.

[0008] Within this aim, an object of the present invention is to provide a case that can be manufactured in a short time and with low costs.

[0009] Another object is to provide a case that maintains its characteristics even after intense use thereof and therefore even after a large number of opening and closing actions of the case.

[0010] Another object is to provide a case that is structurally simple and at the same time allows to protect its contents against any accidental impacts or if the case falls to the ground.

[0011] This aim and these and other objects that will become better apparent hereinafter are achieved by a case, particularly for containing eyeglasses or optical devices, characterized in that it comprises a body made of plastics, which forms a first half-shell and a second

half-shell connected by means of a bridge that acts as a hinge, a first covering element and a second covering element made of a more rigid material being overmolded externally to said first and second half-shells.

[0012] Advantageously, said body is made of soft plastic material, a first covering element and a second covering element made of more rigid plastic material being overmolded on said first and second half-shells.

[0013] Further characteristics and advantages of the present invention will become better apparent from the following detailed description of a particular but not exclusive embodiment thereof, illustrated by way of non-limiting example in the accompanying drawings, wherein:

Figure 1 is a top view of the case in the closed condition;

Figure 2 is a view, similar to Figure 1, of the case in the open condition;

Figure 3 is a front perspective view of the case;

Figure 4 is a front view of the case;

Figure 5 is a view, similar to Figure 3, of the case in the open condition;

Figure 6 is a view, similar to Figure 4, of the case in the open condition;

Figure 7 is a sectional view, taken along the line VII-VII of Figure 1;

Figure 8 is a sectional view of a detail of the bridge that connects the first and second half-shells in the closed condition;

Figure 9 is a view, similar to Figure 8, in the condition in which the case is open;

Figure 10 is a sectional view, taken along the line X-X of Figure 2;

Figure 11 is a view, similar to Figure 10, of a further embodiment of the invention;

Figure 12 is a view, similar to Figure 9, of the embodiment of Figure 11.

[0014] In the embodiments that follow, individual characteristics, given in relation to specific examples, may actually be interchanged with other different characteristics that exist in other embodiments.

[0015] Moreover, it is noted that anything found to be already known during the patenting process is understood not to be claimed and to be the subject of a disclaimer.

[0016] With reference to the figures, the reference numeral 1 designates a case that is used particularly to contain eyeglasses or other optical devices.

[0017] Such case comprises a body, generally designated by the reference numeral 2, which is made of plastic material that has a low degree of rigidity and therefore has softness characteristics such as not to damage the eyeglasses and in particular the lenses of the eyeglasses.

[0018] The body 2 is advantageously made of thermoplastic rubber, but at the same time it can be made of other materials that have the characteristic of not dam-

aging the various components of the eyeglasses or of the optical device.

[0019] The body 2 is therefore obtained by molding, and is constituted by a first half-shell 3 and a second half-shell 4, which preferably have an approximately rectangular plan shape with rounded corners and are mutually connected along one side, preferably a longitudinal side, by means of a bridge 5 that acts as a hinge.

[0020] The first and second half-shells have, in the particular embodiment shown, such a configuration that the respective first perimetric edges 6 and second perimetric edges 7 can be mutually superimposed so as to form a closed compartment 8 for containing the eyeglasses or the optical device.

[0021] In particular, centering means for closing the first and second half-shells, formed proximate to the bridge 5, are provided on said first and second perimetric edges; such means are constituted by a first seat 9 that advantageously has a hemispherical cross-section and at which it is possible to arrange a complementarily shaped ridge 10.

[0022] At the bridge 5 there are also means suitable to facilitate the mutually adjacent arrangement of the first and second perimetric edges, such means being constituted by at least one appropriately provided recess 11 formed at the surface of the bridge that is adjacent to the first seat 9 and the ridge 10.

[0023] A first covering element 12 and a second covering element 13 are overmolded at, and externally to, the first and second half-shells and are again made of plastic material, which however has a higher degree of rigidity than the plastic material of the first and second half-shells.

[0024] The first and second covering elements further respectively have third perimetric edges 14 and fourth perimetric edges 15, which are arranged, at the region of the bridge 5, in abutment by means of appropriately provided protrusions 16 that protrude from the bridge on the opposite side with respect to the first seat 9 and the ridge 10 and have, in the remaining regions, for example at the first covering element 12, a second temporary engagement seat 17 for a rib 18 that protrudes at the fourth perimetric edge 15 of the second covering element 13 and has a rounded tip that temporarily engages the second seat 17 by snap action.

[0025] The second seat 17 and the rib 18 may affect, except for the region of the bridge 5, entirely or only partially the third perimetric edges 14 and fourth perimetric edges 15, so as to accordingly form means for temporarily closing the first and second covering elements.

[0026] In the particular embodiment shown, such means are located approximately at a central region of the third and fourth perimetric edges that lies opposite the adjacent region of the bridge 5; a plate 19 protrudes at the rib 18, externally with respect to the second covering element 13, and is appropriately knurled in order to facilitate the friction that can be imparted by means of a finger of the user and is suitable to achieve snap-action

opening and closure of said first and second covering elements.

[0027] One thus obtains a case that in the closed condition has a compartment inside which it is possible to arrange the eyeglasses or the optical device, such compartment being circumscribed by the first and second half-shells, which are made of soft plastic material, which as such is suitable to protect the eyeglasses against any scratches caused by scraping of the eyeglasses moving within the compartment because the case is being carried. At the same time, such case protects in an optimum manner its contents against any accidental impact, since the first and second covering elements are made of a plastic material that has a higher degree of rigidity.

[0028] It has thus been shown that the invention has achieved the intended aim and objects, a case having been provided which allows to achieve both optimum containment of eyeglasses or of an optical device and protection of the integrity thereof against any scratches or abrasions caused by scraping.

[0029] Such case can be provided in a short time and with low costs, ensuring, thanks to its configuration, that it retains its characteristics of resistance to impacts, optimum containment of the eyeglasses protecting its components against scraping or scratches, and long durability even following intense use thereof, and therefore even following a large number of opening and closing actions of the case.

[0030] The invention is of course susceptible of numerous modifications and variations, all of which are within the scope of the appended claims.

[0031] Thus, in a second embodiment as shown in Figures 11 and 12, the reference numeral 101 designates a case that comprises a body, generally designated by the reference numeral 102, which is made of plastics having a low degree of rigidity, such as thermoplastic rubber, and therefore has softness characteristics such as not to damage the eyeglasses and in particular the lenses of the eyeglasses.

[0032] The body 102 is therefore obtained by molding, and is constituted by a first half-shell 103 and a second half-shell 104, which preferably have an approximately rectangular plan shape with rounded corners and are mutually connected along one side, preferably a longitudinal side, by means of a bridge 105 that acts as a hinge.

[0033] The first and second half-shells have, in the particular embodiment shown, such a configuration that the respective first perimetric edges 106 and second perimetric edges 107 can be mutually superimposed so as to form a closed compartment for containing the eyeglasses or the optical device.

[0034] In particular, centering means for closing said first and second half-shells, formed proximate to the bridge 105, are provided on said first and second perimetric edges; such means are constituted by a first seat 109 that advantageously has an open polygonal cross-section and at which it is possible to arrange a complementary shaped tab 110, made of plastics having a

low degree of rigidity, such as thermoplastic rubber.

[0035] At the bridge 105 there are also means suitable to facilitate the mutually adjacent arrangement of the first and second perimetric edges, said means being constituted by at least one appropriately provided recess 111 that is arc-like or polygonal and is formed at the surface of the bridge that is adjacent to the first seat 109 and the tab 110.

[0036] A first covering element 112 and a second covering element 113 are overmolded at, and externally to, the first and second half-shells and are again made of plastics, which however has a higher degree of rigidity than said first and second half-shells.

[0037] The first and second covering elements further respectively have third perimetric edges 114 and fourth perimetric edges 115, which are arranged, at the region of the bridge 105, in abutment by means of appropriately provided protrusions 116 that protrude from the bridge on the opposite side with respect to the first seat 109 and the tab 110 and have, in the remaining regions, for example at the first covering element 112, a second temporary engagement seat 117 for a complementarily shaped rib 118, which has a teardrop-like shape, protrudes at the fourth perimetric edge 115 of the second covering element 113, and has an end tooth 120 that engages by snap action and temporarily the second seat 117.

[0038] The second seat 117 and the rib 118 may affect, except for the region of the bridge 105, entirely or only partially the third perimetric edges 114 and fourth perimetric edges 115, so as to form accordingly means for temporarily closing the first and second covering elements.

[0039] In the particular embodiment shown, such means are located approximately at a central region of the third and fourth perimetric edges that lies opposite the adjacent region of the bridge 105; a plate 119 protrudes at the rib 118, externally with respect to the second covering element 113, and is conveniently knurled in order to facilitate the friction that can be imparted by means of a finger of the user and is suitable to achieve snap-action opening and closure of said first and second covering elements.

[0040] This solution, too, allows to achieve the intended aim and objects.

[0041] The materials used, as well as the dimensions that constitute the individual components of the invention, may of course be more pertinent according to specific requirements.

[0042] The various means for performing certain different functions need not certainly coexist only in the illustrated embodiment but can be present per se in many embodiments, including ones that are not illustrated.

[0043] The characteristics that are indicated as advantageous, convenient or the like may also be omitted or be replaced with equivalents.

[0044] The disclosures in Italian Patent Application No. TV2003A000071 from which this application claims pri-

ority are incorporated herein by reference.

[0045] Where technical features mentioned in any claim are followed by reference signs, those reference signs have been included for the sole purpose of increasing the intelligibility of the claims and accordingly, such reference signs do not have any limiting effect on the interpretation of each element identified by way of example by such reference signs.

Claims

1. A case, particularly for containing eyeglasses or optical devices, **characterized in that** it comprises a body made of plastics, which forms a first half-shell and a second half-shell connected by means of a bridge that acts as a hinge, a first covering element and a second covering element made of a more rigid material being overmolded externally to said first and second half-shells.
2. A case particularly for containing eyeglasses or optical devices, **characterized in that** it comprises a first covering element and a second covering element made of plastics, inside which a first half-shell and a second half-shell are overmolded, said first and second half-shells being connected by means of a bridge which acts as a hinge, said first and second half-shells being less rigid than said first and second covering elements.
3. The case according to claim 1 or 2, **characterized in that** said body is made of soft plastic material, a first covering element and a second covering element of more rigid plastic material being overmolded externally on said first and second half-shells.
4. The case according to claims 1, 2 or 3, **characterized in that** said body is preferably made of thermoplastic rubber.
5. The case according to claims 1, 2 or 3, **characterized in that** said body is made of a material that has a low degree of rigidity and therefore has softness characteristics such as not to damage its contents.
6. The case according to one or more of the preceding claims, **characterized in that** it is obtained by molding and said first and second half-shells have an approximately rectangular plan shape with rounded corners and are mutually connected, along a preferably longitudinal side, by means of a bridge which acts as a hinge.
7. The case according to claims 1 or 2 and 6, **characterized in that** said first and second half-shells have such a shape that the respective first and second perimetric edges can be mutually superimposed so

as to form a closed compartment for containing the eyeglasses or the optical device.

8. The case according to claims 1 or 2 and 7, **characterized in that** centering means for closing said first and second half-shells are provided on said first and second perimetric edges and are formed proximate to said bridge.
9. The case according to claims 1 or 2 and 8, **characterized in that** said means are constituted by a first seat, which has a hemispherical cross-section and at which it is possible to arrange a complementarily shaped ridge.
10. The case according to one or more of the preceding claims, **characterized in that** means suitable to facilitate the mutually adjacent arrangement of said first and second perimetric edges are provided at said bridge, said means being constituted by at least one recess that is formed at the surface of said bridge that is adjacent to said first seat and said ridge.
11. The case according to one or more of the preceding claims, **characterized in that** a first covering element and a second covering element are overmolded at, and externally to, said first and second half-shells, said covering elements being made of a plastic material that is more rigid than said first and second half-shells.
12. The case according to one or more of the preceding claims, **characterized in that** said first and second covering elements respectively have third and fourth perimetric edges, which are arranged at the region of said bridge in abutment by means of protrusions that protrude from said bridge on the opposite side with respect to said first seat and said ridge and have, in the remaining regions, a second seat for temporary engagement of a rib that protrudes at said fourth perimetric edge of said second covering element.
13. The case according to claims 1 or 2 and 12, **characterized in that** said second seat and said rib affect, except for the region of said bridge, completely or only partially said third and fourth perimetric edges, so as to form means for temporarily closing said first and second covering elements.
14. The case according to claims 1 or 2 and 13, **characterized in that** said means are located approximately at a central region of said third and fourth perimetric edges that lies opposite to the adjacent region of said bridge, a plate protruding at said rib externally to said second covering element, said plate being knurled in order to facilitate the friction that can be imparted by means of a finger of the user, and being adapted to achieve snap-action closing

and opening of said first and second covering elements.

15. The case according to one or more of the preceding claims, **characterized in that** said rib protrudes at said fourth perimetric edge of said second covering element and has a rounded tip that temporarily engages said second seat by snap action.
16. The case according to one or more of the preceding claims, **characterized in that** a complementarily shaped tab can be arranged at said first seat, which has an open polygonal cross-section.
17. The case according to one or more of the preceding claims, **characterized in that** said at least one recess has an arc-like or polygonal shape and is formed at the surface of said bridge that is adjacent to said first seat and said tab.
18. The case according to one or more of the preceding claims, **characterized in that** at said second seat there is a temporary engagement for said complementarily shaped rib, which is teardrop-shaped and protrudes at said fourth perimetric edge of said second covering element.
19. The case according to claims 1 and 18, **characterized in that** said rib has an end tooth that temporarily engages with a snap action within said second seat.

Patentansprüche

1. Etui, insbesondere zum Aufnehmen von Brillen oder optischen Geräten, **dadurch gekennzeichnet, dass** es umfasst:

ein aus Kunststoff hergestelltes Hauptteil, das eine erste Halbschale und eine zweite Halbschale bildet, die mittels einer Brücke, die als ein Scharnier wirkt, verbunden sind,
ein erstes Abdeckelement und ein zweites Abdeckelement, die aus steiferem Material hergestellt sind, das außen an die erste und die zweite Halbschale übergeformt ist.
2. Etui, insbesondere zum Aufnehmen von Brillen oder optischen Geräten, **dadurch gekennzeichnet, dass** es umfasst:

ein erstes Abdeckelement und ein zweites Abdeckelement, die aus Kunststoff hergestellt sind, innerhalb dessen eine erste Halbschale und eine zweite Halbschale übergeformt sind,

wobei die erste und die zweite Halbschale mittels einer Brücke, die als ein Scharnier wirkt, verbunden

sind,
wobei die erste und die zweite Halbschale weniger
steif als das erste und das zweite Abdeckelement
sind.

3. Etui nach Anspruch 1 oder 2, **dadurch gekennzeichnet, dass** das Hauptteil aus einem weichen Kunststoffmaterial hergestellt ist, wobei ein erstes Abdeckelement und ein zweites Abdeckelement aus einem steiferen Kunststoffmaterial außen an die erste und die zweite Halbschale übergeformt sind.
4. Etui nach den Ansprüchen 1, 2 oder 3, **dadurch gekennzeichnet, dass** das Hauptteil vorzugsweise aus einem thermoplastischen Gummi hergestellt ist.
5. Etui nach den Ansprüchen 1, 2 oder 3, **dadurch gekennzeichnet, dass** das Hauptteil aus einem Material hergestellt ist, das einen geringen Grad an Steifigkeit aufweist und deshalb Weichheit-Eigenschaften derart aufweist, um nicht dessen Inhalt zu beschädigen.
6. Etui nach einem oder mehreren der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** es durch Formung erhalten ist und dass die erste und die zweite Halbschale eine annähernd rechteckige, ebene Form mit gerundeten Ecken aufweisen und gegenseitig entlang einer vorzugsweisen longitudinalen Seite mittels einer Brücke, die als ein Scharnier wirkt, verbunden sind.
7. Etui nach den Ansprüchen 1 oder 2 und 6, **dadurch gekennzeichnet, dass** die erste und zweite Halbschale eine solche Form aufweisen, dass die jeweiligen ersten und zweiten umlaufenden Kanten gegenseitig derart überlagert werden können, dass sie ein geschlossenes Fach zum Aufnehmen der Brille oder des optischen Gerätes bilden.
8. Etui nach den Ansprüchen 1 oder 2 und 7, **dadurch gekennzeichnet, dass** Zentriermittel zum Schließen der ersten und zweiten Halbschalen an den ersten und zweiten umlaufenden Kanten vorgesehen und naheliegend zu der Brücke gebildet sind.
9. Etui nach den Ansprüchen 1 oder 2 und 8, **dadurch gekennzeichnet, dass** die Mittel durch eine erste Pfanne gebildet werden, die einen halbkugeligen Querschnitt aufweist und bei der es möglich ist, eine komplementär ausgeformte Erhöhung anzuordnen.
10. Etui nach einem oder mehreren der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** geeignete Mittel zum Erleichtern der gegenseitig benachbarten Anordnung der ersten und zweiten umlaufenden Kanten an der Brücke vorgesehen sind, wobei die Mittel durch mindestens eine Aussparung gebil-

det sind, die an der Oberfläche der Brücke, die benachbart zu der ersten Pfanne und der Erhöhung ist, ausgebildet ist.

11. Etui nach einem oder mehreren der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** ein erstes Abdeckelement und ein zweites Abdeckelement an und außerhalb von der ersten und zweiten Halbschale übergeformt sind, wobei die Abdeckelemente aus einem Kunststoffmaterial hergestellt sind, das steifer als die erste und zweite Halbschale ist.
12. Etui nach einem oder mehreren der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** die ersten und zweiten Abdeckelemente jeweils dritte und vierte umlaufenden Kanten aufweisen, die in einem Bereich der Brücke in Anlage mittels Vorsprüngen angeordnet sind, die von der Brücke an gegenüberliegenden Seiten bezogen auf die erste Pfanne und die Erhöhung vorspringen und die in den verbleibenden Bereichen eine zweite Pfanne zum zeitweiligen Zusammenwirken mit einer Rippe, die an der vierten umlaufenden Kante des zweiten Abdeckelementes vorspringt, aufweisen.
13. Etui nach den Ansprüchen 1 oder 2 und 12, **dadurch gekennzeichnet, dass** die zweite Pfanne und die Rippe, bis auf den Bereich der Brücke, vollständig oder nur teilweise die dritte und vierte umlaufende Kante so beeinflussen, um Mittel zum zeitweiligen Schließen des ersten und zweiten Abdeckelementes zu bilden.
14. Etui nach den Ansprüchen 1 oder 2 und 13, **dadurch gekennzeichnet, dass** die Mittel im Wesentlichen in einem zentralen Bereich der dritten und vierten umlaufenden Kanten, die dem benachbarten Bereich der Brücke gegenüberliegt, platziert sind, wobei eine Platte an der Rippe außen zu dem zweiten Abdeckelement vorspringt, wobei die Platte gerändelt ist um die Reibung, die mittels eines Fingers eines Bedieners ausgeübt werden kann, zu erleichtern, und angepasst ist, ein Schließen und Öffnen des ersten und zweiten Abdeckelementes bei einer Einschnapp-Tätigkeit zu erzielen.
15. Etui nach einem oder mehreren der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** die Rippe an der vierten umlaufenden Kante des zweiten Abdeckelementes vorspringt und eine abgerundete Spitze aufweist, die zweitweilig durch eine Einschnapp-Tätigkeit mit der zweiten Pfanne zusammenwirkt.
16. Etui nach einem oder mehreren der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** ein komplementär ausgeformter Streifen an der ersten Pfanne angeordnet sein kann, die einen offenen po-

lygonalen Querschnitt aufweist.

17. Etui nach einem oder mehreren der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** die mindestens eine Aussparung eine bogenförmige oder polygonale Form aufweist und an der Oberfläche der Brücke, die benachbart zu der ersten Pfanne und dem Streifen ist, gebildet ist. 5
18. Etui nach einem oder mehreren der vorhergehenden Ansprüche, **dadurch gekennzeichnet, dass** es bei der zweiten Pfanne ein zeitweiliges Zusammenwirken für die komplementär ausgeformte Rippe gibt, die tränenartig ausgeformt ist und an der vierten umlaufenden Kante des zweiten Abdeckelementes vorspringt. 10 15
19. Etui nach den Ansprüchen 1 und 18, **dadurch gekennzeichnet, dass** die Rippe einen Endzinken aufweist, der zeitweilig mit einer Einschnapp-Tätigkeit innerhalb der zweiten Pfanne zusammenwirkt. 20

Revendications

1. Boîtier, destiné en particulier à contenir des lunettes ou dispositifs optiques, **caractérisé en ce qu'il** comprend un corps fait de plastique, lequel forme une première demi-coque et une seconde demi-coque reliées au moyen d'un pont qui agit en tant que charnière, un premier élément de couverture et un second élément de couverture faits d'un matériau plus rigide étant surmoulés extérieurement auxdites première et seconde demi-coques. 30
2. Boîtier destiné en particulier à contenir des lunettes ou dispositifs optiques, **caractérisé en ce qu'il** comprend un premier élément de couverture et un second élément de couverture faits de plastique, à l'intérieur desquels sont surmoulées une première demi-coque et une seconde demi-coque, lesdites première et seconde demi-coques étant reliées au moyen d'un pont qui agit en tant que charnière, lesdites première et seconde demi-coques étant moins rigides que lesdits premier et second éléments de couverture. 40 45
3. Boîtier selon la revendication 1 ou 2, **caractérisé en ce que** ledit corps est fait de matériau plastique mou, un premier élément de couverture et un second élément de couverture de matériau plastique plus rigide étant surmoulés extérieurement sur lesdites première et seconde demi-coques. 50
4. Boîtier selon les revendications 1, 2 ou 3, **caractérisé en ce que** ledit corps est de préférence fait de caoutchouc thermoplastique. 55

5. Boîtier selon les revendications 1, 2 ou 3, **caractérisé en ce que** ledit corps est fait d'un matériau qui présente un faible degré de rigidité et possède donc des caractéristiques de consistance molle afin de ne pas endommager son contenu. 5
6. Boîtier selon une ou plusieurs des revendications précédentes, **caractérisé en ce qu'il** est obtenu par moulage et lesdites première et seconde demi-coques ont une forme plane approximativement rectangulaire avec des coins arrondis et sont mutuellement reliées, de préférence le long d'un côté longitudinal, au moyen d'un pont qui agit en tant que charnière. 10
7. Boîtier selon les revendications 1 ou 2 et 6, **caractérisé en ce que** lesdites première et seconde demi-coques ont une forme telle que les premier et deuxième bords périmétriques respectifs peuvent être mutuellement superposés afin de former un compartiment fermé pour contenir les lunettes ou le dispositif optique. 15
8. Boîtier selon les revendications 1 ou 2 et 7, **caractérisé en ce que** des moyens de centrage pour fermer lesdites première et seconde demi-coques sont fournis sur lesdits premier et deuxième bords périmétriques et sont formés à côté dudit pont. 25
9. Boîtier selon les revendications 1 ou 2 et 8, **caractérisé en ce que** lesdits moyens sont constitués par un premier siège qui a une section transversale hémisphérique et au niveau duquel il est possible d'agencer un pont de forme complémentaire. 30 35
10. Boîtier selon une ou plusieurs des revendications précédentes, **caractérisé en ce que** des moyens appropriés pour faciliter l'agencement mutuellement adjacent desdits premier et deuxième bords périmétriques sont fournis au niveau dudit pont, lesdits moyens étant constitués par au moins un évidement qui est formé au niveau de la surface dudit pont qui est adjacent audit premier siège et ladite saillie. 40
11. Boîtier selon une ou plusieurs des revendications précédentes, **caractérisé en ce qu'un** premier élément de couverture et un second élément de couverture sont surmoulés au niveau desdites première et seconde demi-coques, et extérieurement à celles-ci, lesdits éléments de couverture étant faits d'un matériau plastique qui est plus rigide que lesdites première et seconde demi-coques. 45 50
12. Boîtier selon une ou plusieurs des revendications précédentes, **caractérisé en ce que** lesdits premier et second éléments de couverture respectivement ont des troisième et quatrième bords périmétriques qui sont agencés au niveau de la région dudit pont 55

en appui au moyen de protubérances qui dépassent à partir dudit pont sur le côté opposé par rapport audit premier siège et à ladite saillie et possèdent, dans les régions restantes, un second siège pour l'entrée en prise temporaire d'une nervure qui dépasse au niveau dudit quatrième bord périmétrique dudit second élément de couverture.

trémité qui entre temporairement en prise par encliquetage à l'intérieur dudit second siège.

13. Boîtier selon les revendications 1 ou 2 et 12, **caractérisé en ce que** ledit second siège et ladite nervure affectent, sauf pour la région dudit pont, complètement ou seulement partiellement, lesdits troisième et quatrième bords périmétriques, afin de former des moyens pour fermer temporairement lesdits premier et second éléments de couverture. 5 10 15
14. Boîtier selon les revendications 1 ou 2 et 13, **caractérisé en ce que** lesdits moyens sont situés approximativement au niveau d'une région centrale desdits troisième et quatrième bords périmétriques se situant en face de la région adjacente dudit pont, une plaque dépassant au niveau de ladite nervure extérieurement audit second élément de couverture, ladite plaque étant moletée afin de faciliter la friction qui peut être transmise au moyen d'un doigt de l'utilisateur, et étant adaptée pour réaliser une fermeture et ouverture par encliquetage desdits premier et second éléments de couverture. 20 25
15. Boîtier selon une ou plusieurs des revendications précédentes, **caractérisé en ce que** ladite nervure dépasse au niveau dudit quatrième bord périmétrique dudit second élément de couverture et possède un embout arrondi qui entre temporairement en prise avec ledit second siège par encliquetage. 30 35
16. Boîtier selon une ou plusieurs des revendications précédentes, **caractérisé en ce qu'**une patte de forme complémentaire peut être agencée au niveau dudit premier siège, qui présente une section transversale polygonale ouverte. 40
17. Boîtier selon une ou plusieurs des revendications précédentes, **caractérisé en ce que** ledit au moins un évidement a une forme arquée ou polygonale et est formé au niveau de la surface dudit pont qui est adjacent audit premier siège et à ladite patte. 45
18. Boîtier selon une ou plusieurs des revendications précédentes, **caractérisé en ce qu'**au niveau dudit second siège se trouve une prise temporaire pour ladite nervure de forme complémentaire, qui a une forme de goutte d'eau et dépasse au niveau dudit quatrième bord périmétrique dudit second élément de couverture. 50 55
19. Boîtier selon les revendications 1 et 18, **caractérisé en ce que** ladite nervure comporte une dent d'ex-

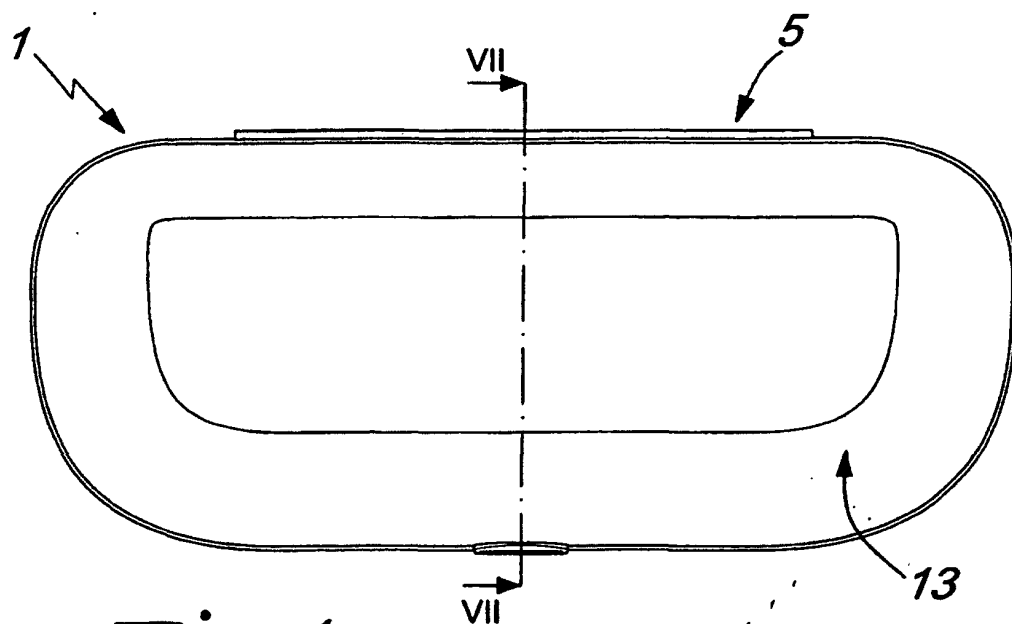


Fig. 1

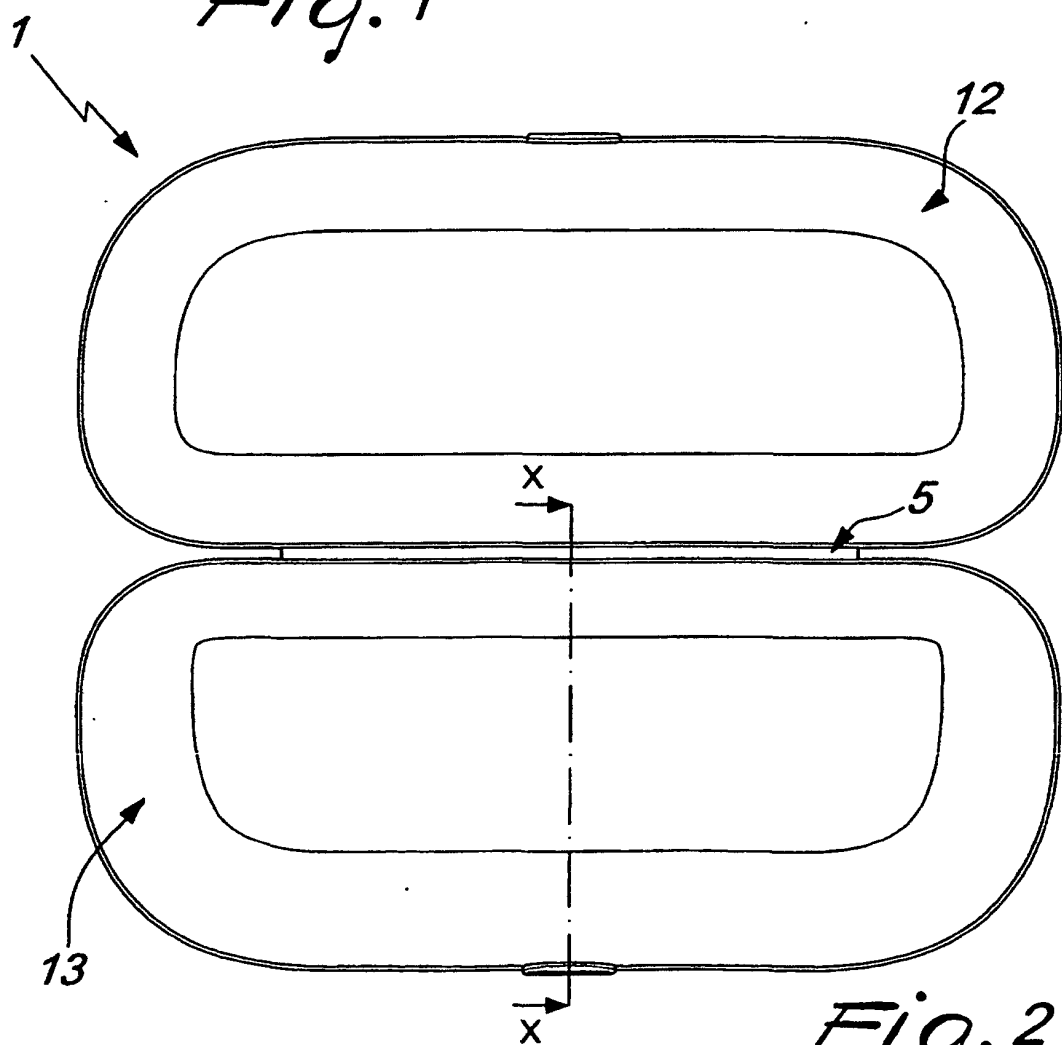
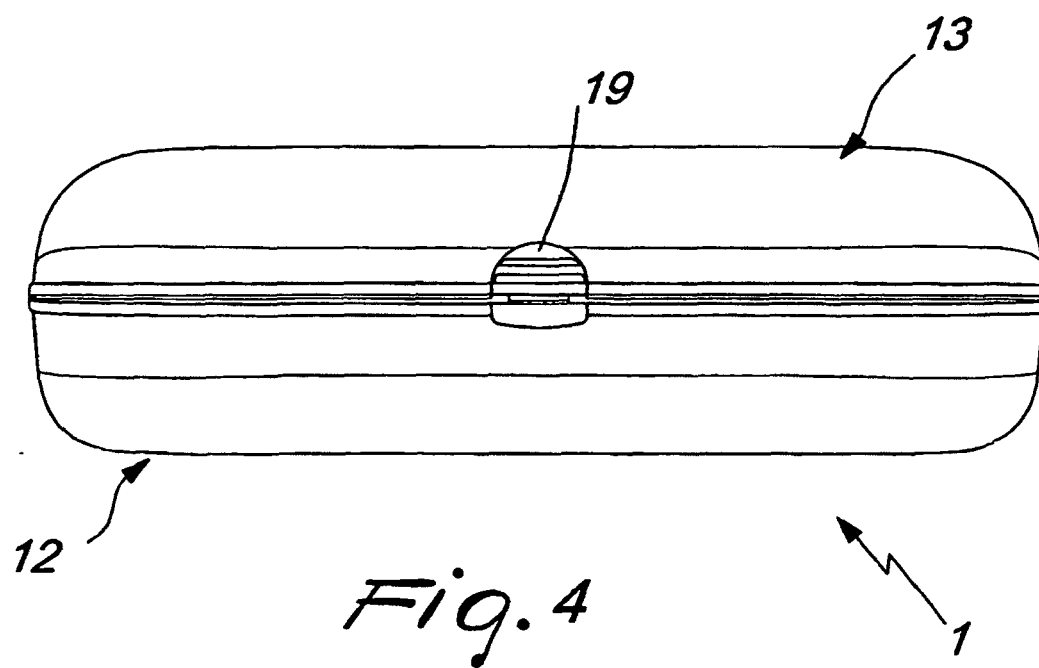
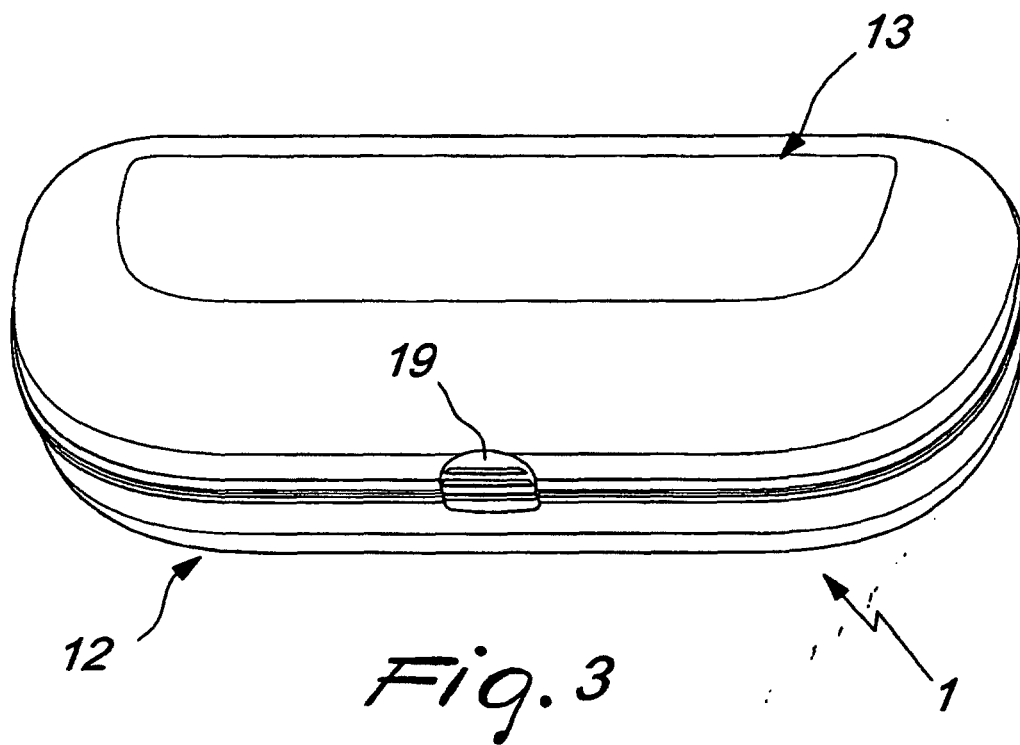


Fig. 2



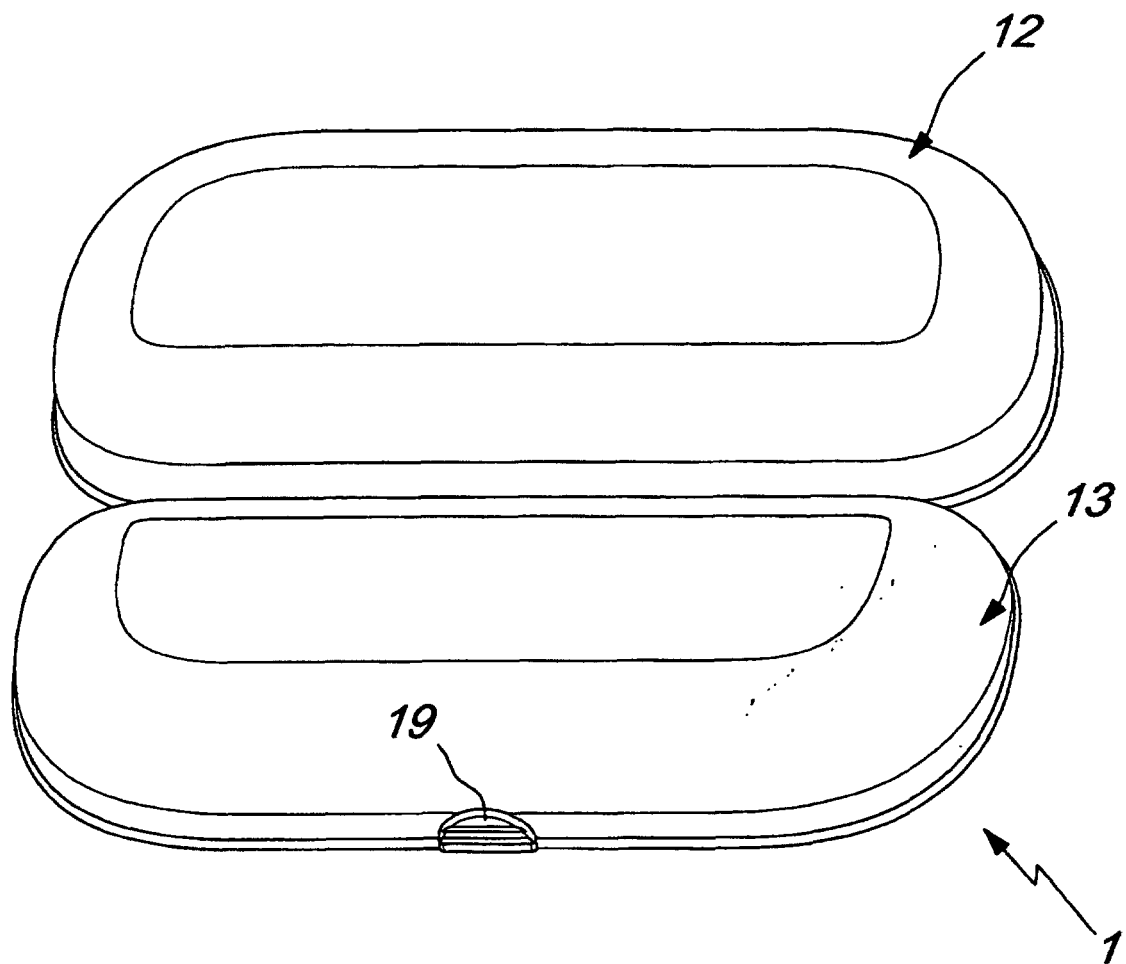


Fig. 5

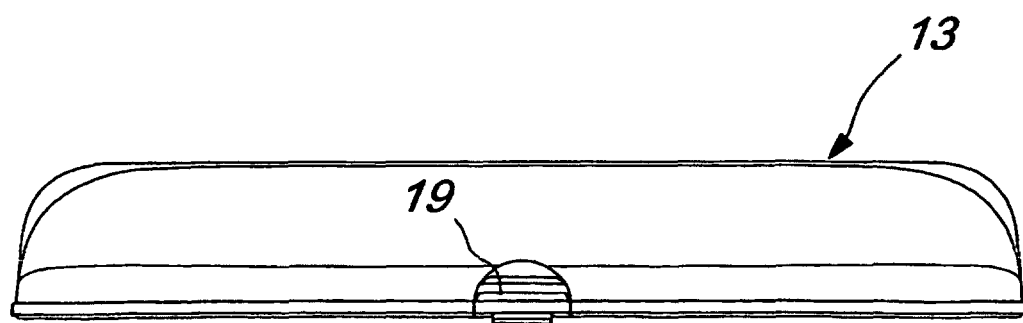
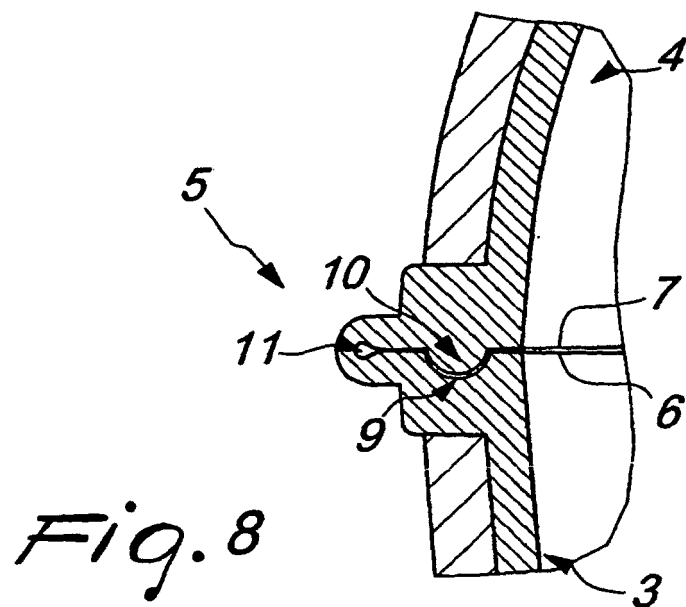
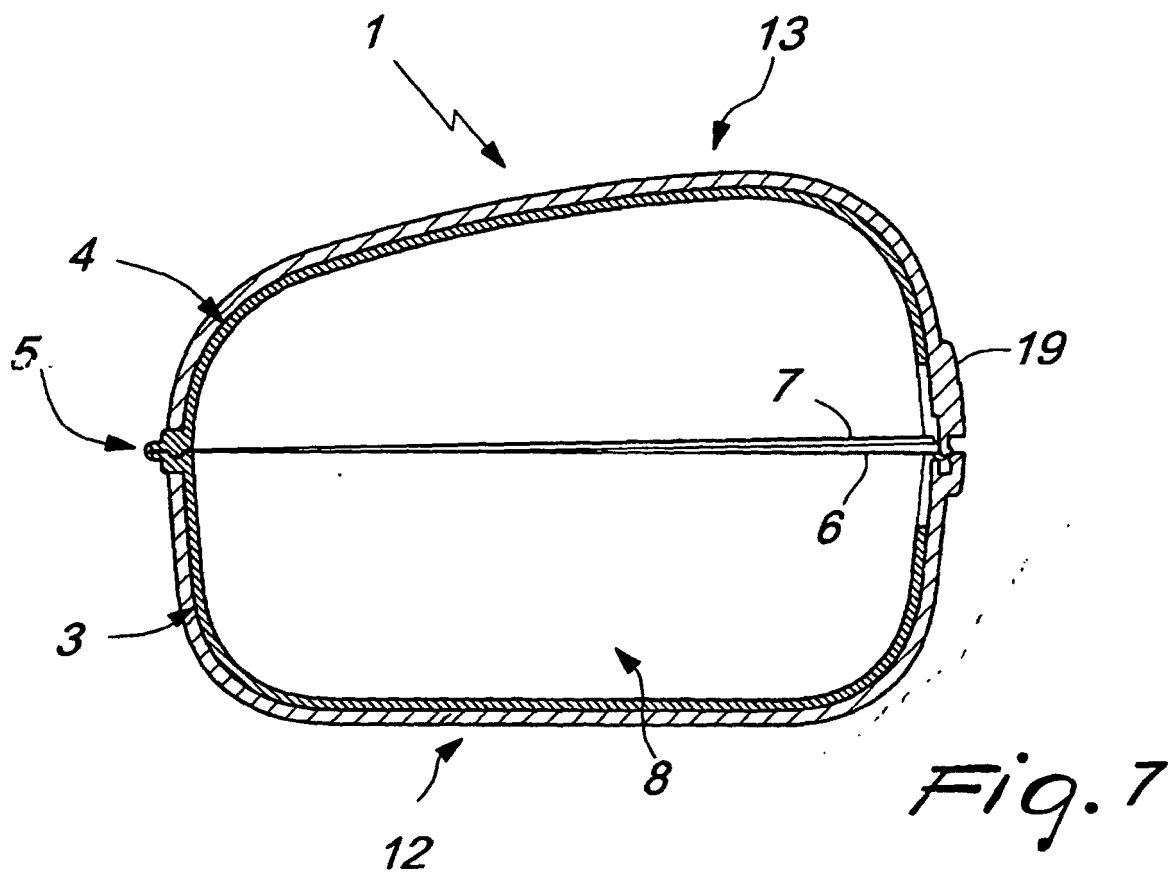


Fig. 6



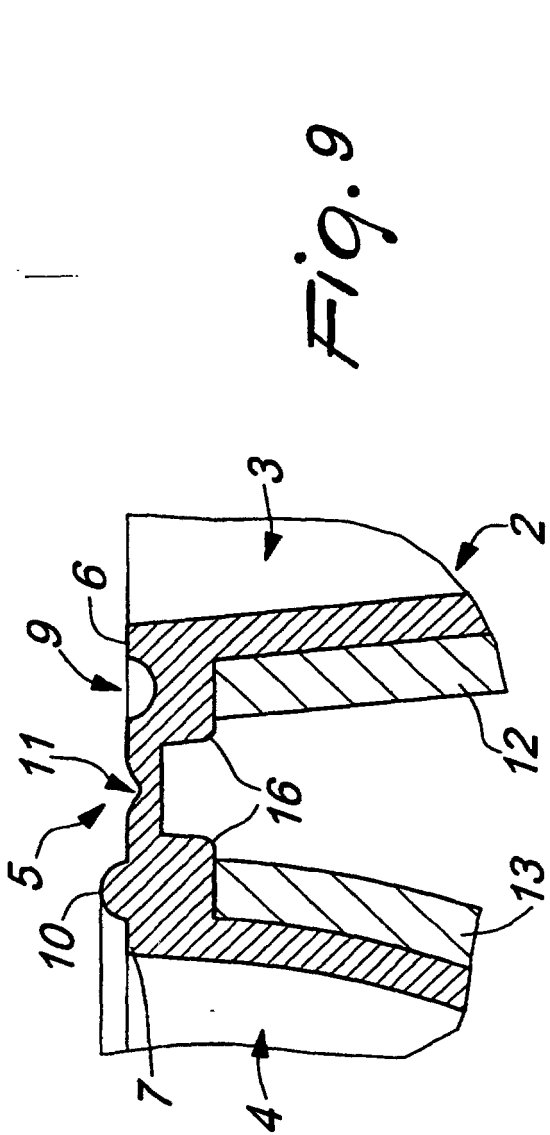


Fig. 9

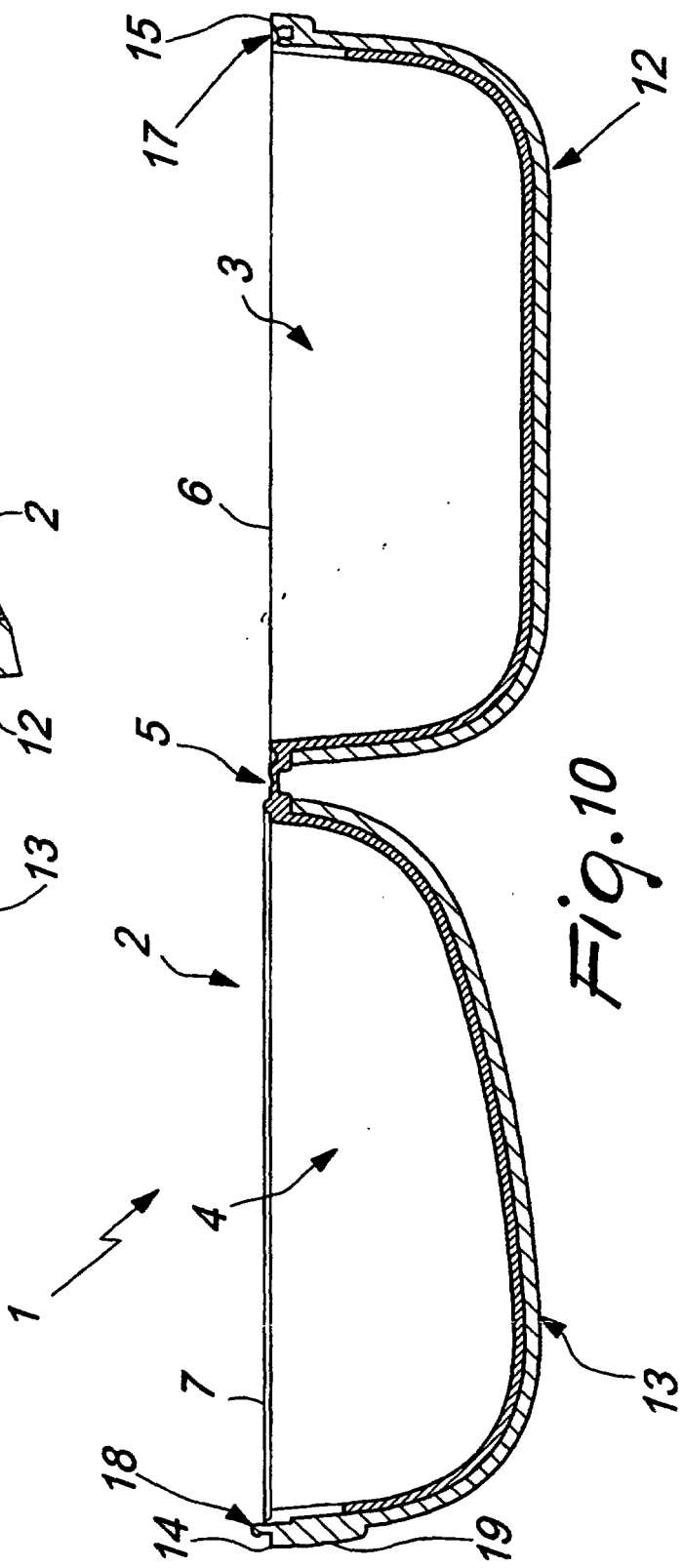


Fig. 10

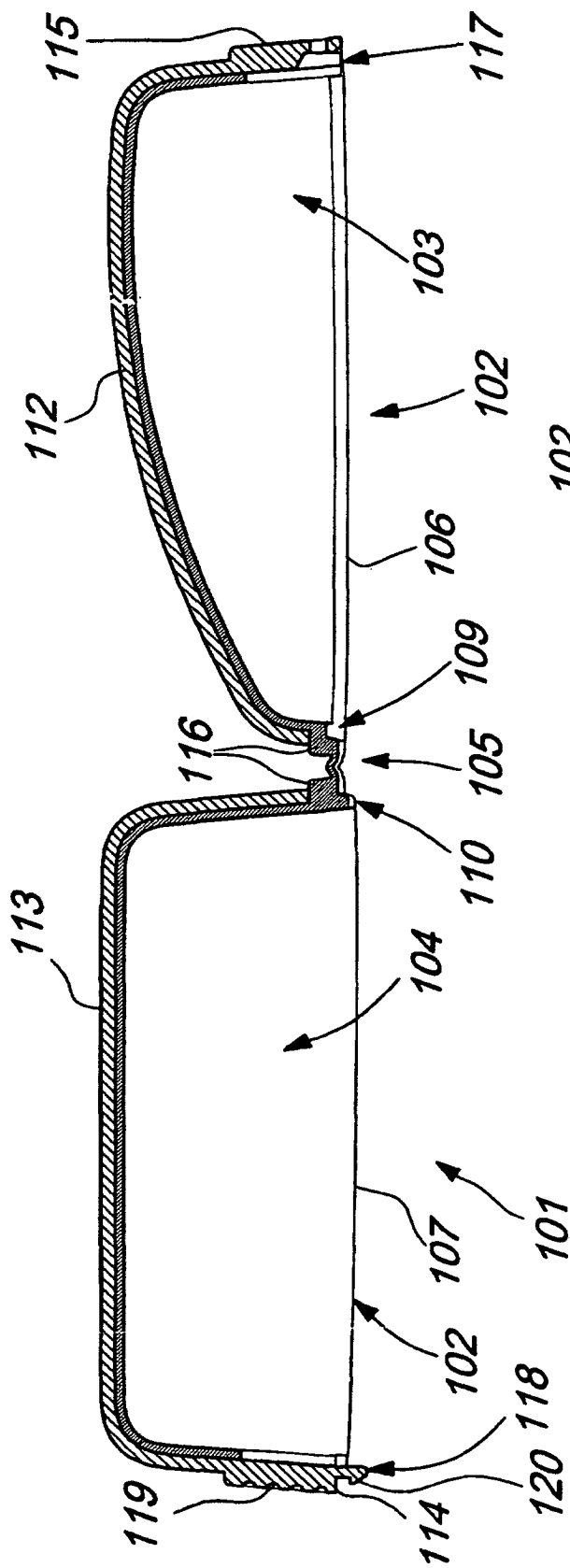


Fig. 11

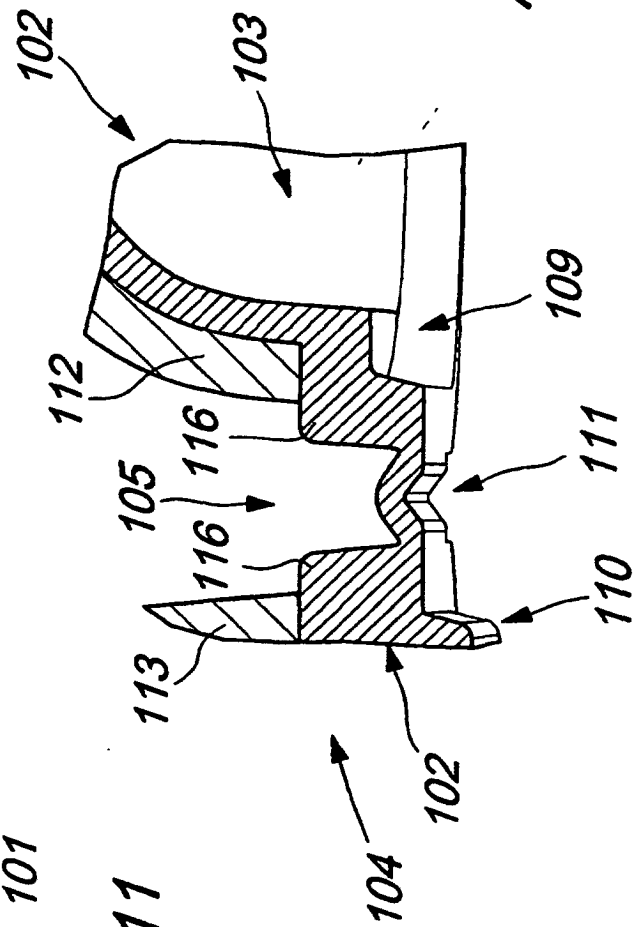


Fig. 12