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(72) Inventors:
• **CINAR, Levent**
45030 Manisa (TR)
• **AKGUL, Selcuk**
45030 Manisa (TR)
• **CALISKAN, Ersan**
45030 Manisa (TR)

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(74) Representative: **Cayli, Hülya**
Paragon Consultancy Incorporated
Koza Sokak No: 63/2
GOP 06540 Ankara (TR)

(71) Applicant: **Vestel Beyaz Eşya Sanayi ve Ticaret A.S.**
45030 Manisa (TR)

(54) **A DOOR FOR WASHING AND/OR DRYING MACHINES**

(57) The door (K) according to the present invention is suitable for use for a washing and/or drying device and comprises: the first annular cover (1); the second annular cover (7) which is connected to the first cover (1) such that a movement space is formed in between them; the hinge (M) which is positioned at the first cover (1) or the second cover (7); the main body (2) which has a flat side and a circular side and is positioned between the first cover (1) and the second cover (7) such that the circular side thereof remains in the movement space; the first sealing element (10) which is positioned on the main body (2) and at the movement space and which has a flat side and a circular side; the frame (3) which is fixed to the main body (2), which has the outer side, the inner side on which the flat side and the circular side of the main body (2) rests, and the third opening surrounded by the inner side, which is located in the movement space such that it is able to rotate there, and which comprises the first fixer (3b); the first housing (1a) provided at the first cover (1); the second housing (1b) provided at the first cover (1) so as to be opposite to the first housing (1a); and the first fixing member (5) which comprises the second fixer which is connected to the first fixer (3b).

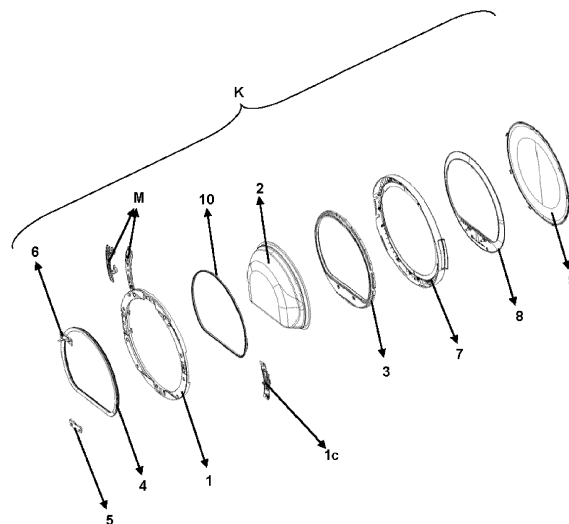


Figure - 3

Description**Technical Field**

[0001] The present invention relates to doors which are developed for devices enabling to wash and/or dry textile products.

Prior Art

[0002] The washing and/or drying devices developed to wash and/or dry textile products comprise a body, a chamber (e.g. a drum) which is located inside the body and in which washing and/or drying processes are conducted, an access opening located at the body such that the textile products are placed into the washing compartment, and a door which provides to control access to the chamber by opening and closing the access opening. The door is mounted to the body at one side by means of a hinge, and it can move by rotating around an axis which passes through the hinge. An opening/closing assembly (e.g. a handle, a locking assembly, etc.) is provided at a side of the door which is opposite to its side in which the hinge is provided, and the door is able to be opened and closed by being rotated around said axis thanks to the opening/closing assembly.

[0003] During production stage of the washing and/or drying machine, the door is mounted to the body such that it is rotated and moved at a direction (for example, from right to left, or from left to right) to be opened. However, due to reasons as obstructions (e.g. a wall etc.) at the region where the device is positioned for use, or tendency of a user to use right or left hand, an opening direction (and accordingly a closing direction) of the door that is determined during a production stage may cause a problem to the user during usage.

[0004] Utility Model document no. CN202430533U covered by the known art discloses an application which is developed to solve said problem. According to application of the document, the door comprises a front door ring, a rear door ring, an inner door ring, a door glass and a sealing strip, wherein the sealing strip is arranged at an outer side of the inner door ring, the inner door ring is fixed to the rear door ring, and the door glass is arranged on the middle portion of the inner door ring. Hinge slots are provided at two sides of the rear door ring; and the front door ring and the rear door ring are mounted to each other. The hinge is mounted to the front door ring and arranged at one of the hinge slots provided at the rear door ring. In said application, when an opening direction of the door is demanded to be changed, the front door ring and the rear door ring should be separated from each other, the rear door ring or the front door ring should be rotated 180 degrees, and after that, they should be mounted to each other again. However, separation of the components which form the door may be inconvenient for users as well as posing an obstacle for delicate components, such as a hinge, a door lock or a gasket, to

perform their functions effectively by getting damaged.

Brief Description of Invention

[0005] A door according to the invention, which is provided for a washing and/or drying device comprising at least one body, at least one chamber positioned in the body and in which a washing and/or drying process is performed, and at least one access opening located at the chamber to allow placement of textile products therein, and which is suitable for use in controlling an access to the chamber by opening and closing said access opening, wherein the door comprises:

- at least a first annular cover which has an inner side, an outer side and a first opening surrounded by the inner side;
- at least a second annular cover which has an inner side, an outer side and a second opening surrounded by the inner side, and which is connected to the first cover such that a movement space is formed between a first surface of the first cover and the second cover and that the second opening at least partially corresponds to the first opening;
- at least one hinge which is positioned at the first cover or the second cover and suitable for allowing the door to be connected to the body so as to move by rotating around an axis;
- at least one main body which has at least one flat side and at least one circular side coupling opposite sides of the flat side, and which is positioned between the first cover and the second cover such that the circular side thereof remains in said movement space; and
- at least a first sealing element which is positioned on the main body and at the movement space, which has a flat side compatible with the flat side of the main body, and a circular side coupling opposite ends of its flat side and being compatible with the circular side of the main body;
- at least one frame which is fixed to said main body, which has at least one outer side, at least one inner side compatible with the flat side and circular side of the main body and on which the flat side and the circular side of the main body rests, and at least a third opening surrounded by the inner side, which is located in the movement space such that it is able to rotate in the movement space and that the third opening at least partially corresponds to the second opening, which allows rotation of the main body and the first sealing element together with the frame itself by means of being rotated in the movement space, and which comprises at least a first fixer;
- at least a first housing provided on said first cover;
- at least a second housing provided on said first cover so as to be opposite to the first housing; and
- at least a first fixing member which is suitable for being positioned at the first housing or the second

housing and comprises at least a second fixer suitable for being connected to the first fixer, when positioned at the first housing or the second housing.

[0006] Thanks to the door according to the present invention, an opening/closing direction of the door is able to be changed by a user in a practical way. Due to the fact that an opening/closing direction of the door is able to be changed by only rotating the main body and relative components without any need to separate the first cover and the second cover from each other in order to change an opening/closing direction of the door after the door is separated from the device; delicate components such as a hinge, a door lock or a gasket etc. may be prevented from getting damaged. Therefore, a practical and reliable door is achieved which is easy to produce, mount and use.

Object of Invention

[0007] An object of the present invention is to provide a door for devices which allow textile products to be washed and/or dried.

[0008] Another object of the present invention is to provide a door which allows changing an opening/closing direction of the door without any need to separate components comprised therein.

[0009] Yet another object of the present invention is to provide a door for which delicate components such as a hinge, a door lock or a gasket etc. comprised therein are not damaged during changing an opening/closing direction of the door.

[0010] A further object of the present invention is to provide a user-friendly door for which an opening/closing direction is able to be changed in an easy and practical manner.

Description of Invention

[0011] Exemplary embodiments of the door according to the present invention are illustrated in attached drawings, in which;

Figure 1 is a perspective view of an embodiment of the door according to the invention.

Figure 2 is a perspective view of another embodiment of the door according to the invention.

Figure 3 is an exploded view of the door according to the invention.

Figure 4 is a perspective view of a first fixing element comprised within the door according to the invention.

Figure 5 is a detailed perspective view of a region of a body frame comprised in the door according to the invention to where the first fixing element is placed. Figure 6 is a front perspective view of a second fixing element comprised in the door according to the invention.

Figure 7 a rear perspective view of the second fixing

element comprised in the door according to the invention.

Figure 8 is a detailed perspective view of the second fixing element and the second housing within the door according to the invention in a demounted state.

[0012] All the parts illustrated in figures are individually assigned a reference numeral and the corresponding terms of these numbers are listed below:

5	Door	(K)
	Hinge	(M)
	First cover	(1)
	First housing	(1a)
10	Second housing	(1b)
	Lock	(1c)
	Main body	(2)
	Frame	(3)
15	Fourth fixer	(3a)
	First fixer	(3b)
	Second sealing element	(4)
	First fixing member	(5)
	First body	(5a)
20	Fifth fixer	(5b)
	First connection area	(5c)
	Second fixing member	(6)
	Extension	(6a)
	Second body	(6b)
	Second connection area	(6c)
	Third fixer	(6d)
	Second cover	(7)
	Third cover	(8)
25	Outer cover	(9)
	First sealing element	(10)

Description of Invention

[0013] Devices used to wash and/or dry textile products generally comprise a body, a chamber (e.g. a drum) which is positioned inside the body and in which washing and/or drying processes are conducted, an access opening provided at the chamber such that the textile products are placed into the chamber, and a door which provides to control access to the chamber by opening and closing the access opening. The door, during a production process, is opened by rotationally moving in a direction (e.g. from right to left) and allows access to the chamber through an access opening, while the door is closed by moving in an opposite direction (e.g. from left to right). However, a user may need to change an opening/closing direction of the door depending on which hand she/he tends to use and/or the obstacles in an area where the device is placed (e.g. a room wall, a column in the room, other goods etc.). However, according to known applications, in order to perform this changing process, compo-

nents within the door should be separated from each other, which then may be a difficult process for a user to handle. In addition, separation of components which form the door may cause delicate components, such as a hinge, a lock, or a gasket, to get damaged and deformed, and this situation may lead improper functioning of the door. Within this context, with the present invention, there is developed a door to solve above-mentioned problems, which is suitable for use in washing and/or drying devices.

[0014] A door (K) according to the invention, exemplary embodiments of which are illustrated in Figures 1-6, which is provided for a washing and/or drying device comprising at least one body, at least one chamber (e.g. a drum) positioned in the body and in which a washing and/or drying process is performed, and at least one access opening located at the chamber to allow placement of textile products therein, and which is suitable for use in controlling an access to the chamber by opening and closing said access opening, wherein the door comprises: at least a first annular cover (1) (preferably in the form of an annular plate) which has an inner side, an outer side and a first opening surrounded by the inner side and which is preferably made of a plastic material; at least a second annular cover (7) which has an inner side, an outer side and a second opening surrounded by the inner side, which is connected to the first cover (1) such that a movement space is formed between a first surface of the first cover (1) and the second cover and that the second opening at least partially corresponds to the first opening, and which is preferably made of a plastic material; at least one hinge (M) which is positioned at the first cover (1) or the second cover (7) and suitable for allowing the door (K) to be connected to the body so as to move by rotating around an axis; at least one main body (2) which has at least one flat side and at least one circular side coupling opposite sides of the flat side, which is positioned between the first cover (1) and the second cover (7) such that the circular side thereof remains in said movement space, which preferably has a curved form extending outwardly by passing through the first opening and which is preferably made of a transparent or semi-transparent material (e.g. glass); and at least a first sealing element (10) (e.g. a gasket) which is preferably positioned on the main body (2) and at the movement space so as to surround the flat side and the circular side of the main body (2), which has a flat side compatible with the flat side of the main body (2), and a circular side coupling opposite ends of its flat side and being compatible with the circular side of the main body (2). The door (K) according to the invention further comprises: at least one frame (3) which is fixed to the main body (2), which is preferably made of a plastic material, which has at least one outer side preferably having a circular shape, at least one inner side on which the flat side and the circular side of the main body (2) rests preferably without a space (in other words, this inner side has a flat side compatible with the flat side of the main body (2), and a circular side compatible with the circular side of the main body (2)),

and at least a third opening surrounded by this inner side, which is located in the movement space such that it is able to rotate in the movement space and that said third opening at least partially corresponds to the second opening, which allows rotation of the main body (2) and the first sealing element (10) together with the frame itself by means of being rotated in the movement space, and which comprises at least a first fixer (3b) preferably provided on the outer side thereof (this first fixer (3b) may be provided as a recess extending from the outer side of the frame (3) towards the inner side thereof or extending from a front surface of the frame (3) which remains at a part of the frame (3) being present at the movement space and faces the first cover (1) towards a rear surface opposite to this front surface, or may be provided as a protrusion extending from the outer side or the front side thereof towards the first cover (1)); at least a first housing (1a) provided on said first cover (1), and preferably provided as a recess which preferably extends from the inner side towards the outer side (and preferably, from a second surface of the first cover (1) opposite to the first surface towards the first surface) (in other words, at least a side of which is suitable to be opened to the first fixer (3b)); at least a second housing (1b) provided on the first cover (1) so as to be opposite to the first housing (1a), and provided as a recess preferably from the inner side towards the outer side (and preferably, from a second surface of the first cover (1) opposite to the first surface towards the first surface) (in other words, at least a side of which is suitable to be opened towards the first fixer (3b)) (the door (K) preferably comprises at least two first fixers (3b) provided at the frame (3) so as to correspond both to the first housing (1a) and to the second housing (1b) [in other words, positioned at the frame (3) oppositely]); and at least a first fixing member (5) which is suitable for being positioned at the first housing (1a) or the second housing (1b) and comprises at least a second fixer suitable for being connected to the first fixer (3b), when positioned at the first housing (1a) or the second housing (1b) (this second fixer may be provided as a recess in which the first fixer (3b) is placed, or may be provided as a protrusion/pin which is placed in the first fixer (3b)).

[0015] In an exemplary embodiment of the invention, said main body (2) (e.g. outer side of the main body (2)) is in the form of a circle a side of which is cut off, and has a flat side and a circular side coupling the opposite ends of the flat side. Similarly, the first sealing element (10) is also in the form of a cut off-circle in a compatible way with the main body (2). Also, inner side of the frame (3) is in the form of a cut off-circle in a compatible way with the main body (2) such that the outer side of the main body (2) rests. For the door (K) according to the present invention, the main body (2) is fixed to the frame (3), and the first sealing element (10) is positioned at the main body (2) so as to be fixed to the frame (3) or the main body (2). Then, the first cover (1) and the second cover (7) are mounted to each other such that the frame (3),

the main body (2) and the first sealing element (10) remain between the first cover (1) and the second cover (7); and during this mounting process, a movement space is formed between the first surface of the first cover (1) and the second cover (7), and the frame (3) (and accordingly, at least a part of the outer side of the main body (2), and the first sealing element (10)) is rotatably located in this movement space. By rotating the frame (3) in said movement space, the main body (2) is aligned properly with the washing and/or drying device to which the door (K) is mounted by means of the hinge (M) (e.g. such that, in case the door (K) is to be mounted to a drying device, the flat side of the main body (2) corresponds to a filtering area within the drying device [generally such that the flat side is below the circular side) and with respect to the desired direction (e.g. from right to left or from left to right) to open the door (K). After that, said first fixing member (5) is placed to the first housing (1a) or the second housing (1b) with respect to the position to which the main body (2) is aligned, and the second fixer provided at the first fixing member (5) is connected to said first fixer (3b) provided at the frame (3). Therefore, rotational movement of the frame (3) is able to be prevented and thus the main body (2) is able to be fixed at the position to which it is aligned. Following mounting of the door (K), the door (K) is mounted to the device by means of said hinge (M) (in the position where the door (K) closes the access opening after the door (K) is mounted to the device, the first cover (1) is positioned so as to be closer to the access opening, and the second cover (7) is positioned so as to be further from the access opening). If a user wants to change an opening direction of the door (K), she/he separates the door (K) from the device to which it is mounted; and then removes the first fixing member (5) from the housing (the first housing (1a) or the second housing (1b)) in which it is located, and by this way, the frame (3) becomes rotatable in the movement space. The user rotates the main body (2) (thus, the first sealing element (10) and the frame (3) connected to the main body (2) rotates, as well), changes the position of the flat side of the main body (2) 180 degrees, and after that, places the first fixing member (5) to the other housing (the second housing (1b) or the first housing (1a)); and the second fixer is connected to the first fixer (3b) which corresponds to said other housing. After that, the user rotates the whole door (K) 180 degrees again, thus the flat side of the main body (2) is aligned to the position at the device; position of the hinge (M) is changed and therefore the hinge (M) is connected to the device at an area opposite to an area to which it is connected before the rotation. Thanks to the door (K) according to the present invention, an opening/closing direction of the door (K) is able to be changed practically without any need to separate components from each other which form the door (K). In addition, due to the fact that the main body (2) and the first sealing element (10) rotates together with the frame (3), damage (e.g. breakage or cracking of the main body (2), ripped or harmed first seal-

ing element (10)) that may occur during rotation because of exposed forces (such as rotational force and frictional force) is able to be minimized, and the rotation process is able to be performed in an easy and reliable manner.

[0016] In a preferred embodiment of the invention, the door (K) also comprises at least a second sealing element (4) (e.g. a gasket) which is fixed to the main body (2) or the frame (3) so as to be at an area where the main body (2), the first cover (1) and the movement space intersects; which has a flat side compatible with the flat side of the main body (2), and a circular side coupling opposite ends of its flat side and being compatible with the circular side of the main body (2), which is able to be rotated together with the main body (2) when the main body (2) is rotated, and preferably, at least a part of which is located on the main body (2) such that at least a part of the circular side thereof remains between the inner side of the first cover (1) and the main body (2), and that at least another part of the flat side thereof remains between the inner side of the frame (3) and the main body. In this embodiment, after the door (K) is mounted to the device, the second sealing element (4) provides insulation between the door (K) and a part of the device where the access opening is provided. Due to the fact that the second sealing element (4) providing insulation between the door (K) and the device is located on the door (K), the second sealing element (4) is able to be prevented from being damaged during placing or removing the textile products in or from the chamber through the access opening. In addition to this, using an additional second sealing element (4) as well as the first sealing element (10) enables an effective insulation for the door (K) even if one of the sealing elements is damaged and deformed during a rotation, and the relative usage also allows preventing unwanted factors as water/air from being present between the first cover (1) and the second cover (7).

[0017] In another exemplary embodiment of the invention, the first fixing member (5) within the door (K) preferably comprises at least a first body (5a) preferably in the form of a plate, on which, preferably, said second fixer is provided, and which is preferably made of a plastic material, and at least a first connection area (5c) which is provided on the first body (5a), at which a connection element (e.g. a screw) for fixing the first fixing member (5) to the first cover (1) is positioned, and which is preferably in the form of a through hole.

[0018] In an alternative embodiment of the invention, the door (K) according to the invention also comprises at least a second fixing member (6) which is suitable for being positioned at the first housing (1a) or the second housing (1b) (in other words, at the housing at which the first connection element (5) is not located); on which at least one extension (6a) is provided; which, when the door (K) switches to a closed position after it is mounted to the device, enables the extension (6a) to be placed into a housing at the device body and to trigger a switch so that it is sensed that the door (K) is in a closed position;

and which, when the door (K) switches to an opened position, is separated from the housing at the device and enables to sense that the door (K) is in an opened position. In this embodiment, said second fixing member (6) further comprises at least a third fixer (6d) (the third fixer (6d) may be provided as a recess into which the first fixer (3b) is placed, or may be provided as a protrusion/pin which is placed into the first fixer (3b)) suitable for being connected to said first fixer (3b) when the second fixing member (6) is positioned at the first housing (1a) or the second housing (1b), so that the second fixing member (6) prevents movement of the frame (3) and accordingly the main body (2) in the movement space when the second fixing member (6) is attached to relative housings together with the first fixing member (5). In this embodiment, the door (K) according to the present invention also preferably comprises at least a fourth fixer (3a) (the fourth fixer (3a) may be provided as a recess extending from the outer side towards the inner side, or may be provided as a protrusion extending from the outer side towards the first cover (1)) provided on the outer side of the frame (3) (preferably, at an area of the outer side which corresponds to the flat part of the inner side), and corresponding to the first housing (1a) or the second housing (1b) upon rotation of the frame (3) and accordingly the main body (2), and at least a fifth fixer (5b) (the fifth fixer (5b) may be provided as a recess into which the fourth fixer (3a) is placed, or may be provided as a protrusion which is placed into the fourth fixer (3a)) provided at the first fixing member (5), and suitable for being connected to the fourth fixer (3a) when the first fixing member (5) is positioned at the housing which corresponds to the fourth fixer (3a) (at the first housing (1a) or the second housing (1b)). For use of said second fixing member (6), by means of the fourth fixer (3a) and the fifth fixer (5b), it may be prevented that the first fixing member (5) and the second fixing member (6) is attached to wrong housings (attachment of the first fixing member (5) to the housing which does not correspond to the fourth fixer (3a), or attachment of the second fixing member (6) to the housing which does not correspond to the housing at the device), and incorrect usage is able to be prevented. Moreover, thanks to the preferred embodiment where said fourth fixer (3a) is provided at an area of the outer side of the frame (3) corresponding to the flat part of the inner side, the main body (2) can be properly aligned after the rotation, so that especially in the drying devices, the flat side of the main body (2) is able to be provided at a position compatible with the area where the filter is present. Said fifth fixer (5a) is preferably positioned at a side of the first body (5a) facing the main body (2). In this embodiment, said second fixing member (6) preferably comprises at least a second body (6b) which is preferably in the form of a plate and preferably made of a plastic material, and on which said extension (6a) and the third fixer (6d) is provided, and at least a second connection area (6c) preferably in the form of a through hole, which is provided on the second body (6b) and at which a connection element

(e.g. a screw) is positioned, wherein the connection element enables to fix the second fixing member (6) to the first cover (1). Said extension (6a) is preferably positioned at a surface of the second body (6b) not contacting the first cover (1) (in other words, at a surface of the second body (6b) facing the device, in the closed position of the door (K)), and the third fixer (6d) is preferably positioned at another side of the second body (6b) opposite to the surface at which the extension (6a) is provided.

[0019] In another preferred embodiment, the door (K) according to the present invention comprises at least one lock (1c) which is positioned at the first cover (1) or the second cover (7) so as to be, preferably, at an opposite side of the hinge (M), and which enables to lock the door (K) to the device body when the door (K) is in a closed position.

[0020] In another embodiment of the invention, the door according to the present invention also preferably comprises at least a third cover (8) which is attached to the second cover (7) (or to the first cover (1)) so as to be at another side of the second cover (7) not facing the first cover (1), on which decorative patterns are preferably present, which is preferably made of a plastic material and preferably has a circular shape, and which has at least one outer side and an inner side (and preferably at least a fourth opening surrounded by this inner side) comprising a flat side compatible with the flat side of the main body (2) (and accordingly the frame (3)), and a circular side compatible with the circular side of the main body (2) (and accordingly the frame (3)). The door (K) according to this embodiment also comprises an outer cover (9) preferably having a circular form, which is attached to the second cover (7) or the third cover (8) so as to be at a side of the third cover (8) not facing the second cover (7), and which protects the components forming the door (K) against external factors.

[0021] In another alternative embodiment, the door (K) preferably comprises at least one outer cover (9) preferably having a circular form, which is attached to the second cover (7) (or the first cover (1)) so as to be at a side of the second cover (7) not facing the first cover (1), and which protects the components forming the door (K) against external factors.

[0022] Thanks to the door (K) according to the present invention, an opening/closing direction of the door (K) is able to be changed by a user in a practical way. Due to the fact that an opening/closing direction of the door (K) is able to be changed by only rotating the main body (2) and relative components without any need to separate the first cover (1) and the second cover (7) from each other in order to change an opening/closing direction of the door after being separated from the device; delicate components such as a hinge, a door lock or a gasket etc. may be prevented from getting damaged. Therefore, a practical and reliable door (K) is achieved which is easy to produce, mount and use.

Claims

1. A door (K) which is provided for a washing and/or drying device comprising at least one body, at least one chamber positioned in the body and in which a washing and/or drying process is performed, and at least one access opening located at the chamber to allow placement of textile products therein, and which is suitable for use in controlling an access to the chamber by opening and closing said access opening, wherein the door (K) comprises:

- at least a first annular cover (1) which has an inner side, an outer side and a first opening surrounded by the inner side;
- at least a second annular cover (7) which has an inner side, an outer side and a second opening surrounded by the inner side, and which is connected to the first cover (1) such that a movement space is formed between a first surface of the first cover (1) and the second cover and that the second opening at least partially corresponds to the first opening;
- at least one hinge (M) which is positioned at the first cover (1) or the second cover (7) and suitable for allowing the door (K) to be connected to the body so as to move by rotating around an axis;
- at least one main body (2) which has at least one flat side and at least one circular side coupling opposite sides of the flat side, and which is positioned between the first cover (1) and the second cover (7) such that the circular side thereof remains in said movement space; and
- at least a first sealing element (10) which is positioned on the main body (2) and at the movement space, which has a flat side compatible with the flat side of the main body (2), and a circular side coupling opposite ends of its flat side and being compatible with the circular side of the main body (2);

the door (K) being **characterized by** comprising:

- at least one frame (3) which is fixed to said main body (2), which has at least one outer side, at least one inner side compatible with the flat side and circular side of the main body (2) and on which the flat side and the circular side of the main body (2) rests, and at least a third opening surrounded by the inner side, which is located in the movement space such that it is able to rotate in the movement space and that said third opening at least partially corresponds to the second opening, which allows rotation of the main body (2) and the first sealing element (10) together with the frame itself by means of being rotated in the movement space, and which com-

prises at least a first fixer (3b);

- at least a first housing (1a) provided on said first cover (1);
- at least a second housing (1b) provided on said first cover (1) so as to be opposite to the first housing (1a); and
- at least a first fixing member (5) which is suitable for being positioned at the said housing (1a) or the second housing (1b) and comprises at least a second fixer suitable for being connected to said first fixer (3b), when positioned at the first housing (1a) or the second housing (1b).

2. A door (K) according to claim 1, **characterized in that** said main body (2) has a curved form extending outwardly by passing through the first opening.

3. A door (K) according to claim 1, **characterized by** comprising at least two first fixers (3b) provided at the frame (3) so as to correspond both to the first housing (1a) and to the second housing (1b).

4. A door (K) according to claim 1, **characterized by** comprising at least a second sealing element (4) which is fixed to the main body (2) or the frame (3) so as to be at an area where the main body (2), the first cover (1) and the movement space intersects; which has a flat side compatible with the flat side of the main body (2), and a circular side coupling opposite ends of its flat side and being compatible with the circular side of the main body (2); which is able to be rotated together with the main body (2) when the main body (2) is rotated; and at least a part of which is located on the main body (2) such that at least a part of the circular side thereof remains between the inner side of the first cover (1) and the main body (2), and that at least another part of the flat side thereof remains between the inner side of the frame (3) and the main body.

5. A door (K) according to claim 1, **characterized in that** the first fixing member (5) comprises at least a first body (5a) on which said second fixer is provided, and at least a first connection area (5c) which is provided on the first body (5a), and at which a connection element for fixing the first fixing member (5) to the first cover (1) is positioned.

6. A door (K) according to claim 1, **characterized by** comprising at least a second fixing member (6) which is suitable for being positioned at the first housing (1a) or the second housing (1b); on which at least one extension (6a) is provided; which, when the door (K) switches to a closed position after it is mounted to the device, enables the extension (6a) to be placed into a housing at the device body and to trigger a switch so that it is sensed that the door (K) is in a closed position; which, when the door (K) switches

to an opened position, is separated from the housing at the device and enables to sense that the door (K) is in an opened position; and which comprises a third fixer (6d) suitable for being connected to said first fixer (3b) when the second fixer (6) is positioned at the first housing (1a) or the second housing (1b).

7. A door (K) according to claim 6, **characterized in that** the door (K) comprises at least a fourth fixer (3a) provided on the outer side of the frame (3), and corresponding to the first housing (1a) or the second housing (1b) upon rotation of the frame (3) and accordingly the main body (2), and at least a fifth fixer (5b) provided at the first fixing member (5), and suitable for being connected to said fourth fixer (3a) when the first fixing member (5) is positioned at the housing which corresponds to the fourth fixer (3a).
8. A door (K) according to claim 7, **characterized in that** said fourth fixer (3a) is positioned at an area of the outer side of the frame (3) corresponding to the flat part of the inner side.
9. A door (K) according to claim 6, **characterized in that** said second fixing member (6) comprises at least a second body (6b) on which said extension (6a) and the third fixer (6d) is provided, and at least a second connection area (6c) which is provided on the second body (6b) and at which a connection element enabling to fix the second fixing member (6) to the first cover (1) is positioned, wherein said extension (6a) is positioned at a surface of the second body (6b) not contacting the first cover (1).
10. A door (K) according to claim 1, **characterized by** comprising at least one lock (1c) which is positioned at the first cover (1) or the second cover (7) so as to be at an opposite side of the hinge (M), and which enables to lock the door (K) to the device body when the door (K) is in a closed position.
11. A door (K) according to claim 1, **characterized by** comprising at least a third cover (8) which is attached to the second cover (7) or to the first cover (1) so as to be at an another side of the second cover (7) not facing the first cover (1) and which has at least one outer side and an inner side comprising a flat side compatible with the flat side of the main body (2), and a circular side compatible with the circular side of the main body (2).
12. A door (K) according to claim 11, **characterized by** comprising at least one outer cover (9) which is attached to the second cover (7) or to the third cover (8) so as to be at a side of the third cover (8) not facing the second cover (7), and which protects the components forming the door (K) against external factors.

13. A door (K) according to claim 1, **characterized by** comprising at least one outer cover (9) which is attached to the second cover (7) or to the first cover (1) so as to be at another side of the second cover (7) not facing the first cover (1), and which protects the components forming the door (K) against external factors.
14. A door (K) according to claim 1 or claim 3, **characterized in that** the first fixer (3b) is provided as a recess extending from the outer side of the frame (3) towards the inner side thereof or extending from a front surface of the frame (3), which remains at a part of the frame (3) being present at the movement space and faces the first cover (1), towards a rear surface opposite to this front surface, or is provided as a protrusion extending from the outer side of the frame (3) towards the first cover (1).
15. A door (K) according to claim 1, **characterized in that** the first housing (1a) and/or the second housing (1b) is provided as a recess from the inner side towards the outer side, or from a second surface of the cover (1) opposite to the first surface towards the first surface.

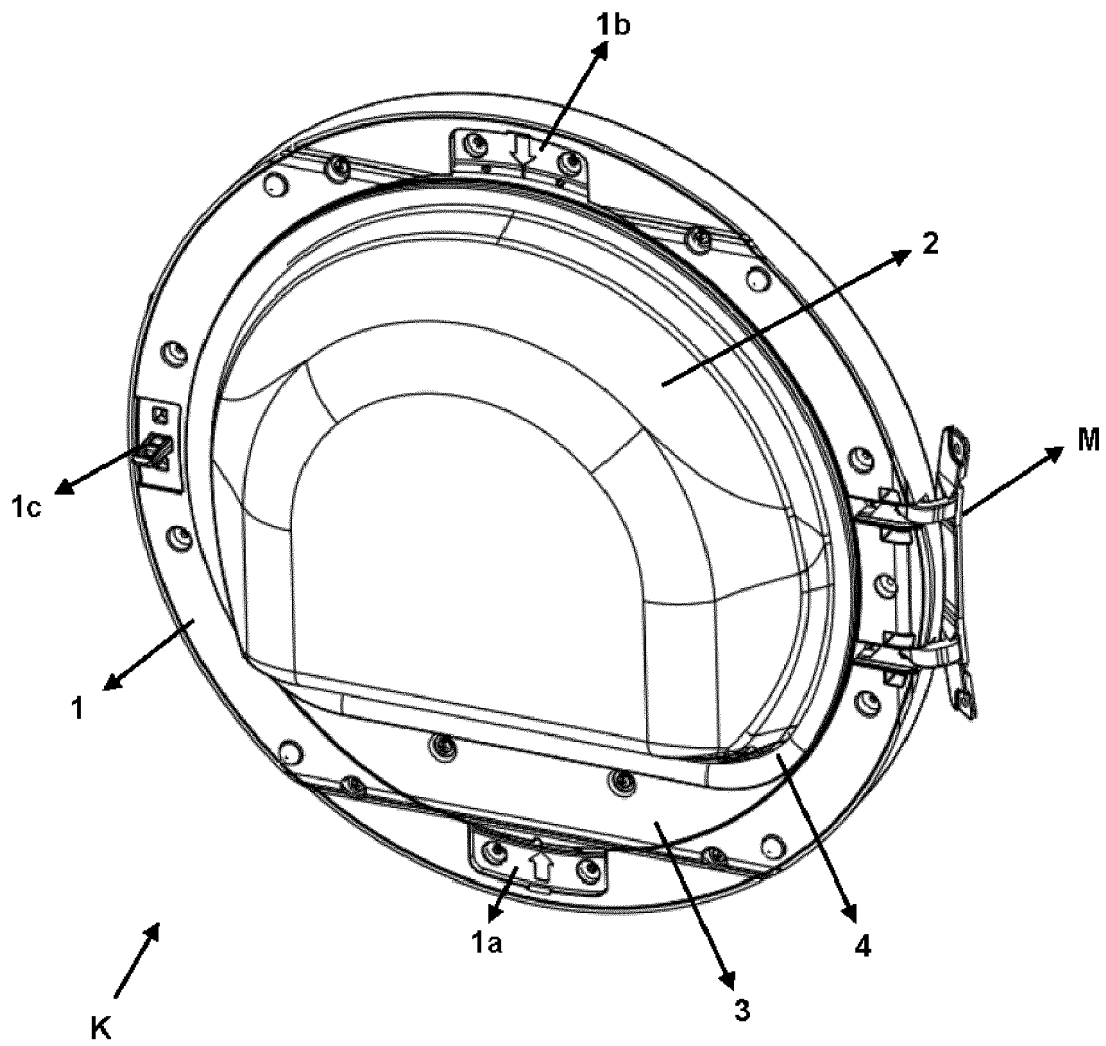


Figure – 1

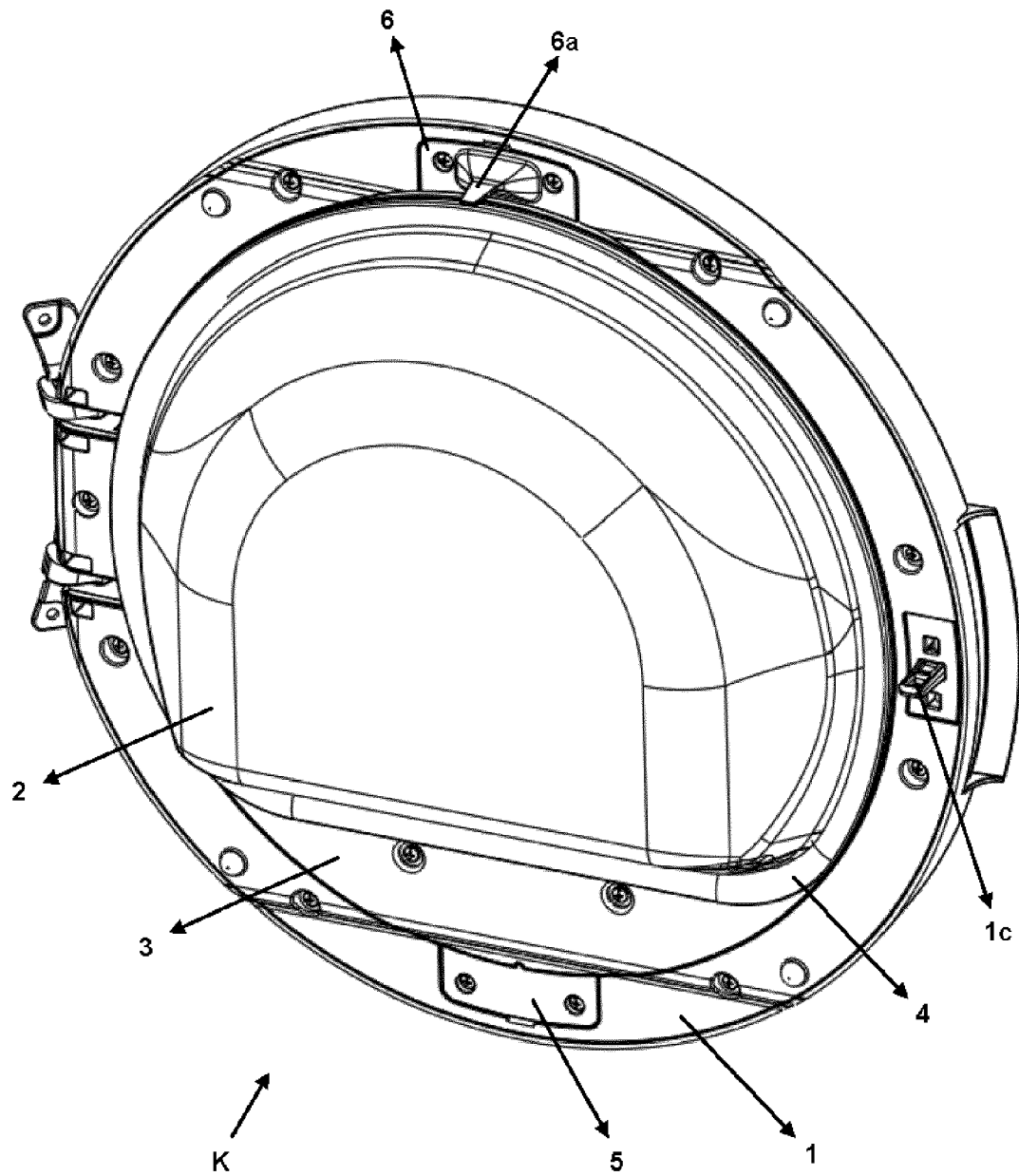


Figure – 2

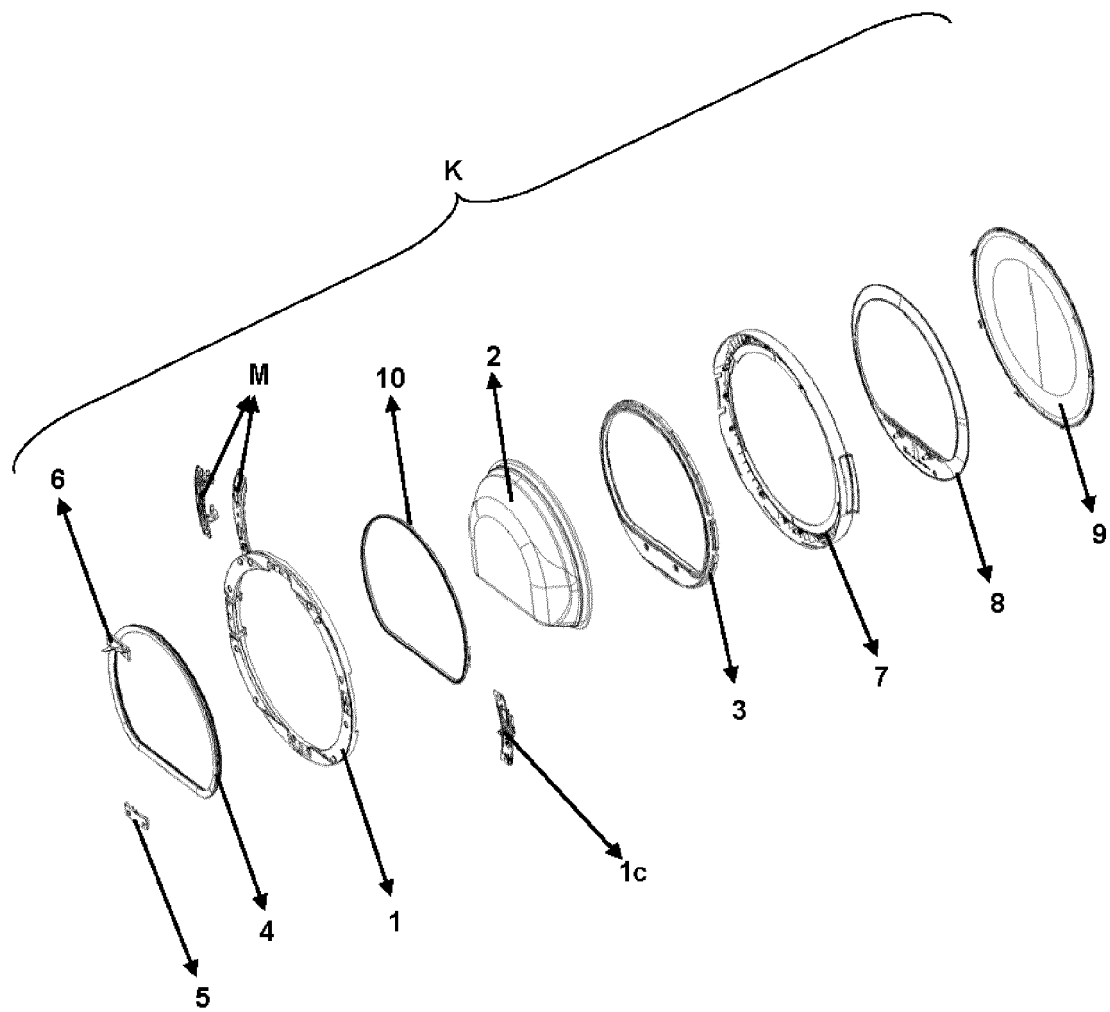


Figure – 3

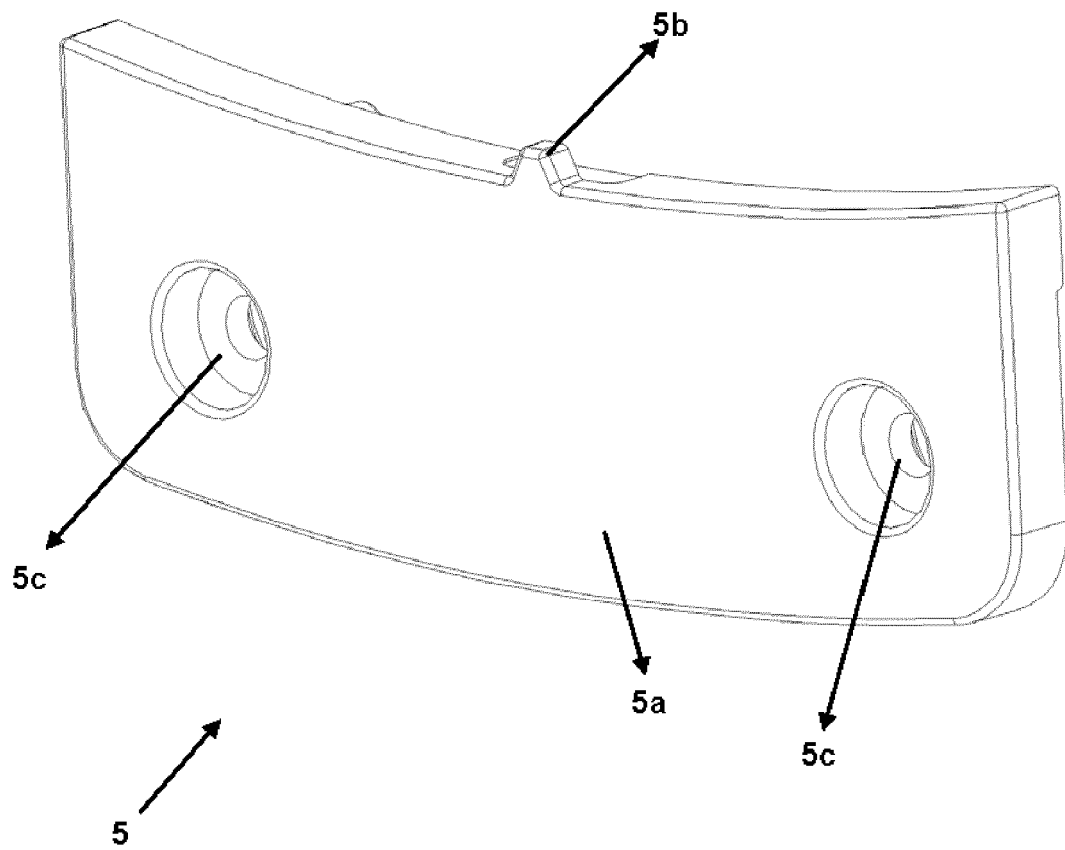


Figure – 4

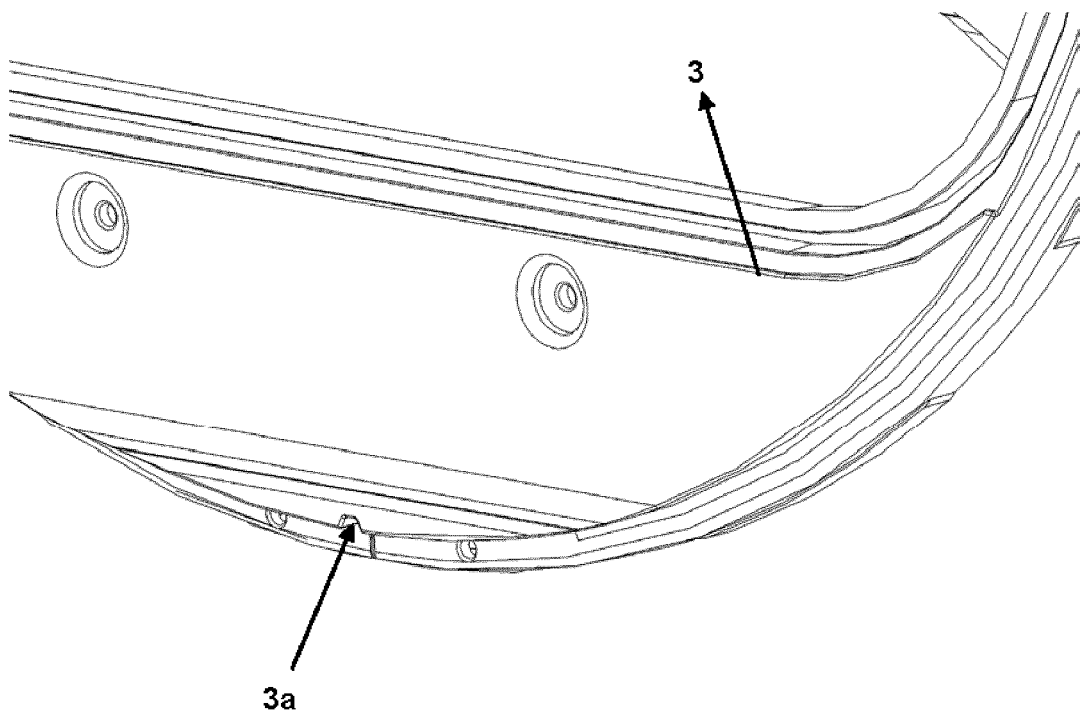


Figure – 5

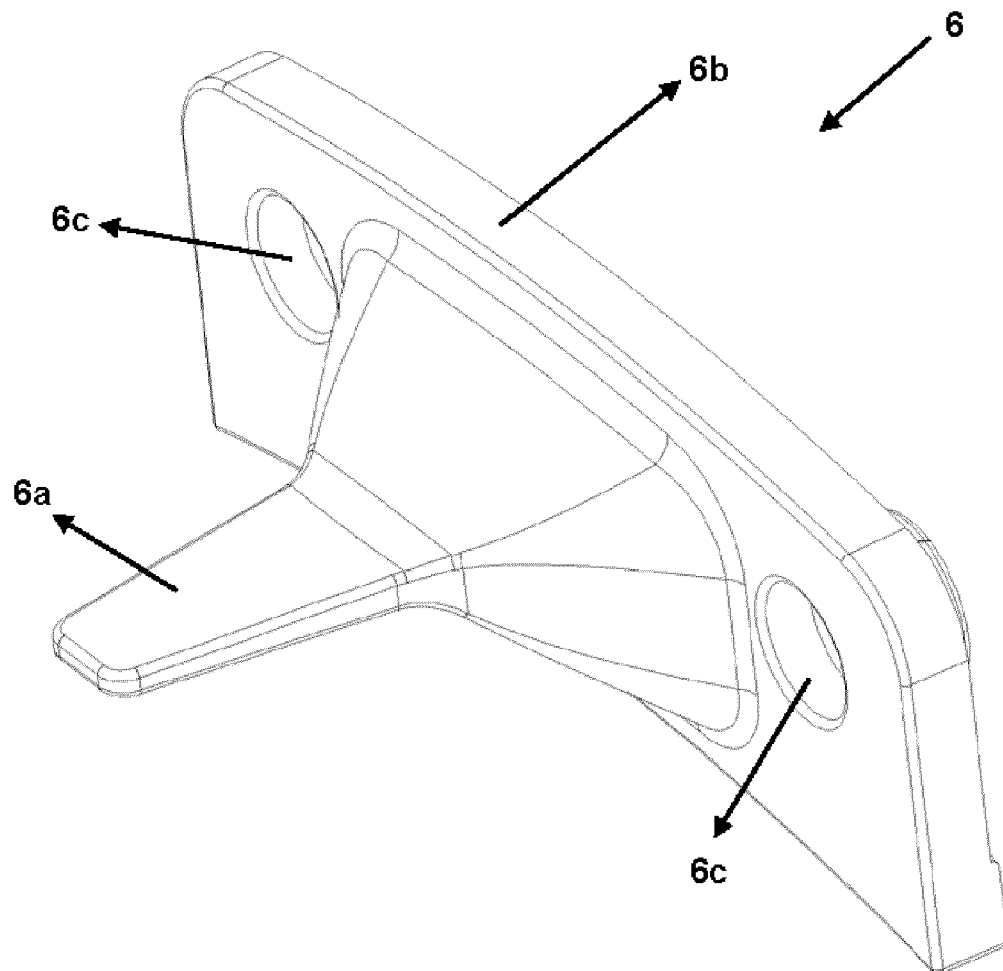


Figure – 6

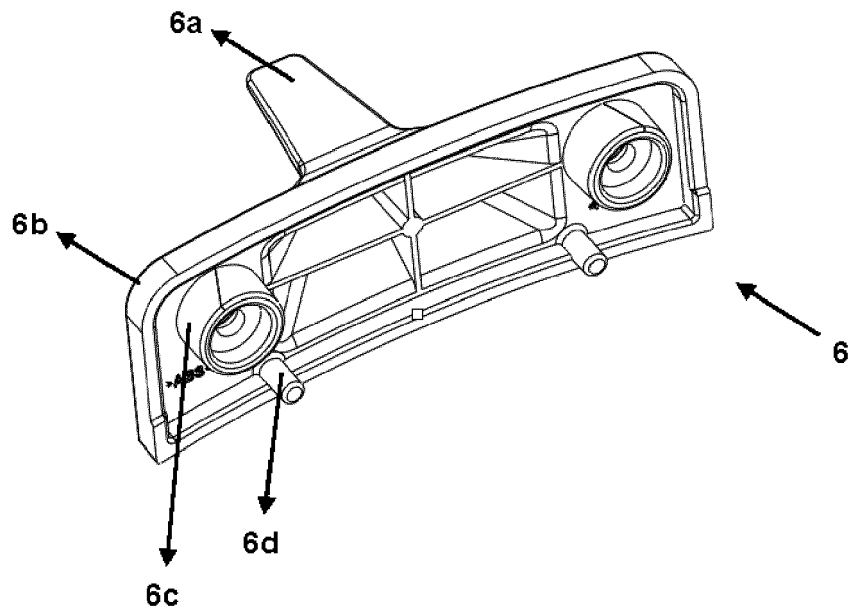


Figure – 7

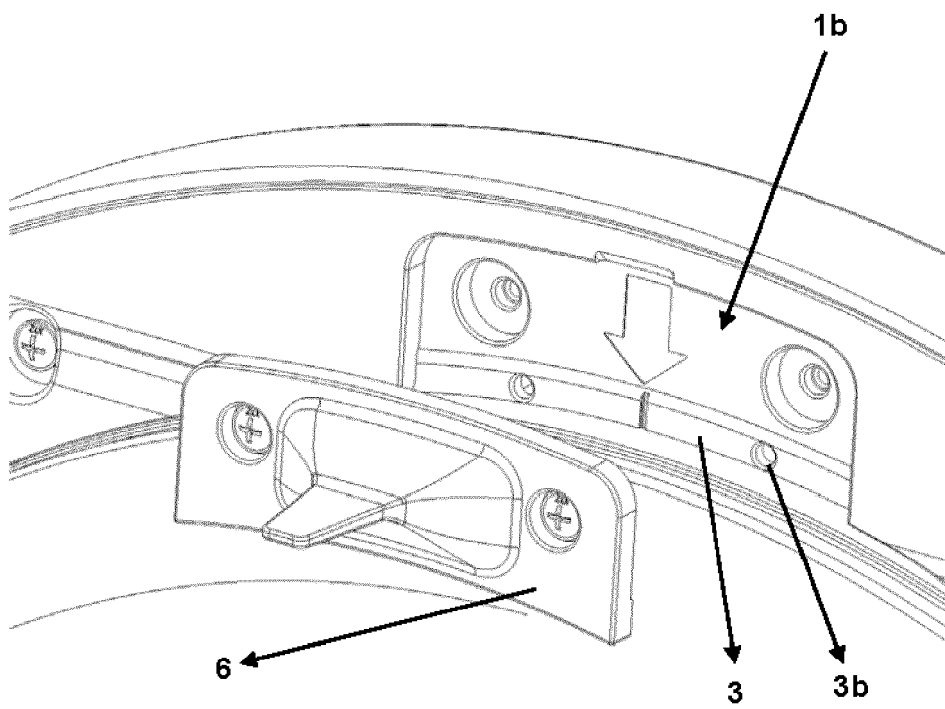


Figure – 8



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Y	WO 03/004754 A1 (ARCELIK AS [TR]; BISCOTTI AURELIO [IT] ET AL.) 16 January 2003 (2003-01-16) * page 1, line 27 - page 2, line 10 * * page 3, line 23 - page 6, line 6 * * figures 1-4 *	1,2,4,5, 10,14,15	
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