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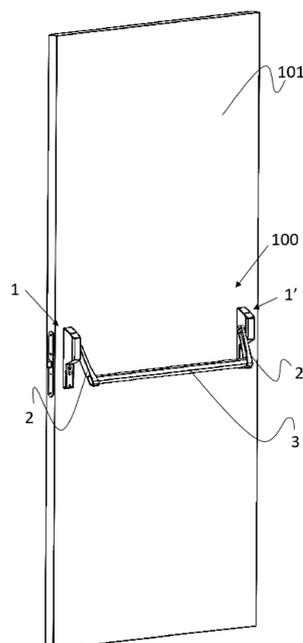
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(54) **SUPPORT ASSEMBLY OF A PANIC BAR DEVICE**

(57) Bearing assembly (1) of a panic bar device (100) comprising a bearing element, a rotating shaft configured for rotating together with a respective arm (2) of the panic bar device (100), a lock actuating element configured for acting on a lock, and a first pushing element and a second pushing element coupled to the rotating shaft. When the lock actuating element is arranged in a first standby position, the first pushing element pushes the projection of the lock actuating element, the lock actuating element rotating in one direction, and when the lock actuating element is arranged in a second standby position, the second pushing element pushes the projection of the lock actuating element, the lock actuating element rotating in the opposite direction.



**FIG. 1**

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**Description**

## TECHNICAL FIELD

**[0001]** The present invention relates to a support assembly of a panic bar device for a door.

## PRIOR ART

**[0002]** Bearing assemblies of panic bar devices arranged on a door are known. EP2820209B1 discloses a mechanism with an operating handle in the form of a bar for a door, window, or the like, with a leaf mounted on a fixed frame. The mechanism comprises a bearing device on which the bar is supported, a lock with a lock mechanism, and a connecting device for the lock. The bearing device comprises a bearing plate configured for fixing the bearing device to the door. The bearing device further comprises a bearing body with a U-shaped section. The bearing body has two U-shaped arms protruding from the bearing plate. Each U-shaped arm comprises a bearing receptor, the bearing receptors of both arms being aligned with one another. The bearing shaft of the bar is arranged in each of the bearing receptors. The connecting device comprises a driving lever attached to the bearing shaft of the bar in a rotation-resistant manner, and upon rotation it pushes a projection of an element which rotates about a shaft acting on the lock.

## DISCLOSURE OF THE INVENTION

**[0003]** The object of the invention is to provide a bearing assembly of a panic bar device and a panic bar device, as defined in the claims.

**[0004]** The bearing assembly of the invention is a bearing assembly of a panic bar device of the type comprising a first bearing assembly and a second bearing assembly configured for being fixed to a door, the first bearing assembly being arranged on a first side of the door and the second bearing assembly being arranged on a second side of the door, a first arm pivotally coupled at a first end to the first bearing assembly, a second arm pivotally coupled at a first end to the second bearing assembly, and a bar coupled to a second end of the first arm and to a second end of the second arm, such that the bar, the first arm, and the second arm pivot with respect to the bearing assemblies when the bar is pushed.

**[0005]** The bearing assembly comprises a bearing element comprising a base plate configured for being fixed to the door, a first side plate attached to the base plate on one of its sides, and a second side plate attached to the base plate on the opposite side facing the first side plate, each side plate comprising a bore, both bores facing one another.

**[0006]** The bearing assembly comprises a rotating shaft housed in the bores of the side plates and configured for rotating together with the respective arm of the panic bar device, a lock actuating element coupled to the

base plate configured for rotating about an axis perpendicular to the base plate and acting on a lock, and pushing means coupled to the rotating shaft and configured for rotating together with the rotating shaft and pushing a projection of the lock actuating element, making said lock actuating element rotate.

**[0007]** The bearing assembly of the invention is configured for being arranged interchangeably on the first side or on the second side of the door, for which purpose the pushing means comprise a first pushing element and a second pushing element, and the lock actuating element comprises a first standby position in which the projection of the lock actuating element is arranged in a first angular position, and a second standby position in which the projection of the lock actuating element is arranged in a second angular position, such that when the lock actuating element is arranged in the first standby position and the bar is pushed, the first pushing element pushes the projection of the lock actuating element, the lock actuating element rotating in one direction, and when the lock actuating element is arranged in the second standby position and the bar is pushed, the second pushing element pushes the projection of the lock actuating element, the lock actuating element rotating in the opposite direction.

**[0008]** Given that the bearing assembly of the invention can be interchangeably arranged on the first side or on the second side of the door, the assembly of the panic bar device is simplified. Consequently, the person in charge of fixing the bearing assembly to the door will identify the side of the door on which the lock is installed, and will fix the bearing assembly on said side, said bearing assembly being the same both if the lock is installed on the first side of the door and if it is installed on the second side of the door.

**[0009]** These and other advantages and features of the invention will become evident in view of the drawings and the detailed description of the invention.

## DESCRIPTION OF THE DRAWINGS

**[0010]**

Figure 1 shows a perspective view of a panic bar device with an embodiment of the bearing assembly according to the invention.

Figure 2 shows a plan view of part of the bearing assembly of Figure 1, wherein the lock actuating element is arranged in a first standby position.

Figure 3 shows a perspective view of the lock actuating element of the bearing assembly of Figure 1.

Figure 4 shows a perspective view of part of the bearing assembly of Figure 1.

Figure 5 shows an exploded view of the bearing as-

sembly of Figure 1 with the respective arm.

Figure 6 shows a perspective view of the bearing assembly of Figure 1 with the respective arm.

Figure 7 shows a side view of the bearing assembly of Figure 1 in a first standby position.

Figure 8 shows a perspective view of the arm of the panic bar device of Figure 1.

Figure 9 shows the rotating shaft of the bearing assembly of Figure 1.

Figure 10 shows a section view of the bearing assembly of Figure 1 with the respective arm coupled thereto.

#### DETAILED DISCLOSURE OF THE INVENTION

**[0011]** Figures 1 to 10 show an embodiment of the bearing assembly 1 of a panic bar device 100 according to the invention.

**[0012]** The bearing assembly of the invention is a bearing assembly of a panic bar device 100. The panic bar device 100 is of the type comprising a first bearing assembly 1 and a second bearing assembly 1' configured for being fixed to a door 101, the first bearing assembly 1 being arranged on a first side of the door 101 and the second bearing assembly 1' being arranged on a second side of the door 101, a first arm 2 pivotally coupled at a first end to the first bearing assembly 1, a second arm 2' pivotally coupled at a first end to the second bearing assembly 1', and a bar 3 coupled to a second end of the first arm 2 and to a second end of the second arm 2', such that the bar 3, the first arm 2, and the second arm 2' pivot with respect to the bearing assemblies 1, 1' when the bar 3 is pushed. Figure 1 shows a panic bar device 100 of this type.

**[0013]** The bearing assembly 1 comprises a bearing element 11 comprising a base plate 12 configured for being fixed to the door 101, a first side plate 13 attached to the base plate 12 on one of its sides, and a second side plate 13' attached to the base plate 12 on the opposite side facing the first side plate 13, each side plate 13, 13' comprising a bore 14, 14', both bores 14, 14' facing one another, as shown in Figure 4.

**[0014]** The bearing assembly 1 comprises a rotating shaft 21 housed in the bores 14, 14' of the side plates and configured for rotating together with the respective arm 2 of the panic bar device 100, a lock actuating element 31 coupled to the base plate 12 configured for rotating about an axis perpendicular to the base plate 12 and acting on a lock, and pushing means coupled to the rotating shaft 21 and configured for rotating together with the rotating shaft 21 and pushing a projection 32 of the lock actuating element 31, making said lock actuating element 31 rotate.

**[0015]** The bearing assembly 1 is configured for being arranged interchangeably on the first side or on the second side of the door 101, for which purpose the pushing means comprise a first pushing element 41 and a second pushing element 41', and the lock actuating element 31 comprises a first standby position in which the projection 32 of the lock actuating element 31 is arranged in a first angular position, and a second standby position in which the projection 32 of the lock actuating element 31 is arranged in a second angular position, such that when the lock actuating element 31 is arranged in the first standby position and the bar 3 is pushed, the first pushing element 41 pushes the projection 32 of the lock actuating element 31, the lock actuating element 31 rotating in one direction, and when the lock actuating element 31 is arranged in the second standby position and the bar 3 is pushed, the second pushing element 41' pushes the projection 32 of the lock actuating element 31, the lock actuating element 31 rotating in the opposite direction.

**[0016]** Given that the bearing assembly 1 of the invention can be interchangeably arranged on the first side or on the second side of the door 101, the assembly of the panic bar device 100 is simplified. Consequently, the person in charge of fixing the bearing assembly 1 to the door 101 will identify the side of the door 101 in which the lock is installed, and will fix the bearing assembly 1 on said side, said bearing assembly 1 being the same both if the lock is installed on the first side of the door 101 and if it is installed on the second side of the door 101.

**[0017]** Figure 3 shows the lock actuating element 31 of this embodiment. The lock actuating element 31 comprises a projection 32 which, in this embodiment, extends radially and outwardly with respect to the shaft on which the lock actuating element 31 rotates. The projection 32 comprises a first contact surface 321 and a second contact surface 322, such that when the lock actuating element 31 is in the first standby position and the bar 3 is pushed, the first pushing element 41 pushes the projection 32, contacting with the first contact surface 321. In the same manner, when the lock actuating element 31 is in the second standby position and the bar 3 is pushed, the second pushing element 41' pushes the projection 32, contacting with the second contact surface 322. The first and second standby positions of the lock actuating element 31 are positions of the lock actuating element 31 in which the bar 3 of the panic bar device 100 is not being pushed.

**[0018]** Figure 2 shows this embodiment of part of the bearing assembly 1, wherein the lock actuating element 31 is in the first standby position. Figure 7 also shows this embodiment of the bearing assembly 1, wherein the lock actuating element 31 is in the first standby position, such that when the bar 3 is pushed the first pushing element 41 pushes the projection 32 of the lock actuating element 31, the lock actuating element 31 rotating in one direction, for which purpose the first pushing element 41 will contact with the first contact surface 321.

**[0019]** The rotating shaft 21 is configured for rotating

with the respective arm 2 of the panic bar device 100, such that when the bar 3 is pushed, the respective arm 2 pivots with respect to bearing assembly 1 causing the rotation of the rotating shaft 21 to which said arm 2 is coupled. The rotating shaft 21 is coupled to the pushing means comprising the first pushing element 41 and the second pushing element 41', the pushing means rotating together with the rotating shaft 21. Therefore, upon pushing the bar 3, the first pushing element 41 and the second pushing element 41' rotate together with the rotating shaft 21, causing the rotation of the lock actuating element 31. In this embodiment, the lock actuating element 31 has a square-shaped bore in which there is coupled a shaft which rotates together with the lock actuating element 31. Said shaft is coupled to a lock arranged in the door 101, such that upon rotation of the lock actuating element 31, it will act on the lock, such that the lock will allow the door to open.

**[0020]** In this embodiment of the bearing assembly 1, when the lock is arranged on the first side of the door 101, the lock actuating element 31 will be arranged in the first standby position shown in Figure 2, such that when the bar 3 is pushed, the first pushing element 41 will push the projection 32 of the lock actuating element, contacting with the contact surface 321, the lock actuating element 31 rotating in one direction, in the clockwise direction, acting on the lock and thus causing the door 101 to open. When the lock is arranged on the second side of the door 101, the lock actuating element 31 will be arranged in the second standby position, such that when the bar 3 is pushed, the second pushing element 41' will push the projection 32 of the lock actuating element 31, contacting with the contact surface 322, the lock actuating element 31 rotating in the opposite direction, that is, in the counter-clockwise direction, acting on the lock and thus causing the door 101 to open.

**[0021]** As observed in Figure 5, a sleeve 33 is arranged between the lock actuating element 31 and the base plate 12 to which said lock actuating element 31 is coupled, such that by means of the use of the sleeve 33 direct contact between the lock actuating element 31 and the base plate 12 is prevented.

**[0022]** In this embodiment of the bearing assembly 1, the first pushing element 41 and the second pushing element 41' are coupled to the rotating shaft 21 and are configured for directly pushing the projection 32 of the lock actuating element 31. The rotating shaft 21 of this embodiment, as shown in Figure 9, comprises at each of its ends four projections, and the first and second pushing elements 41, 41' each comprises a bore in which said projections are coupled, and after being riveted allow the rotating shaft 21 to be fixed to the first pushing element 41 at one end and to the second pushing element 41' at the other end.

**[0023]** In this embodiment of the bearing assembly 1, the pushing elements 41, 41' are plates parallel to the side plates 13, 13' comprising a respective projection 42, 42' configured for pushing the projection 32 of the lock

actuating element 31. Figure 7 shows this embodiment of the bearing assembly 1, wherein the first pushing element 41 comprises a projection 42 configured for directly pushing the projection 32 of the lock actuating element 31. The projection 42 comprises a contact surface 421, such that when the lock actuating element 31 is in the first standby position and the bar 3 is pushed, the projection 42 of the first pushing element 41 directly pushes the projection 32 of the lock actuating element 31, for which purpose the contact surface 421 of the projection 42 of the first pushing element 41 pushes the first contact surface 321 of the lock actuating element 31. In the same manner, the projection 42' comprises a contact surface 421', such that when the lock actuating element 31 is in the second standby position and the bar 3 is pushed, the projection 42' of the second pushing element 41' directly pushes the projection 32 of the lock actuating element 31, for which purpose the contact surface 421' of the projection 42' of the second pushing element 41' pushes the second contact surface 322 of the lock actuating element 31.

**[0024]** The bearing assembly 1 of this embodiment is configured for being positioned with the same orientation regardless of whether it is arranged on the first side or on the second side of the door 101. Therefore, by means of the bearing assembly 1 of the invention the assembly thereof is simplified, given that the same bearing assembly 1 can be fixed on the first side of the door 101 if the lock is installed on the first side, or on the second side of the door 101 if the lock is installed on the second side, and furthermore the bearing assembly 1 is fixed in the same position on both the first and the second side of the door. This prevents the person in charge of fixing the bearing assembly 1 to the door 101 from having to take into account on which side of the door 101 the bearing assembly 1 is to be fixed when installing it.

**[0025]** As shown in Figure 2, in the bearing assembly 1 of this embodiment the lock actuating element 31 is arranged centered between the two side plates 13, 13', the projection 32 of said lock actuating element 31 being arranged close to the first side plate 13 when said lock actuating element 31 is arranged in the first standby position, said projection 32 being arranged close to the second side plate 13' when said lock actuating element 31 is arranged in the second standby position, the first pushing element 41 being arranged close to the first side plate 13, and the second pushing element 41' being arranged close to the second side plate 13'. Therefore, when the person in charge of fixing the bearing assembly 1 to the door 101 fixes the bearing assembly 1 on the first side of the door 101, said person must take into account that the projection 32 of the lock actuating element 31 is to be arranged close to the first side plate 13, and when this person fixes the bearing assembly 1 on the second side of the door 101, said person must take into account that the projection 32 of the lock actuating element 31 is to be arranged close to the second side plate 13'.

**[0026]** The pushing elements 41, 41' of this embodi-

ment of the bearing assembly 1 are arranged outside a delimited area between the two side plates 13, 13', as observed in Figure 2.

**[0027]** In this embodiment of the bearing assembly 1, the first side plate 13 and the second side plate 13' are arranged symmetrically with respect to a plane of symmetry parallel to the first side plate 13 and to the second side plate 13', said plane of symmetry being situated at the same distance from both side plates 13, 13'. Furthermore, the axis on which the lock actuating element 31 rotates, which axis is perpendicular to the base plate 12, is contained in said plane of symmetry.

**[0028]** The bearing assembly 1 of this embodiment comprises a calibrating element 51 configured for being coupled to the two side plates 13, 13' so that both side plates 13, 13' remain parallel to one another and perpendicular to the base plate 12. Since the calibrating element 51 is configured for keeping the first side plate 13 and the second side plate 13' parallel to one another, it prevents the occurrence of friction and accordingly friction between the first pushing element 41 and the first side plate 13, and between the second pushing element 41' and the second side plate 13' when the bar 3 is pushed and accordingly the first pushing element 41 and the second pushing element 41' rotate.

**[0029]** To enable being coupled to the side plates 13, 13', the calibrating element 51 of this embodiment comprises a U-shaped projection 52 at each of its ends, each projection 52 comprising two bars 54 facing and attached to one another by means of an additional bar 56, and a gap 53 between both bars. Each side plate 13, 13' comprises a through bore 15, 15', such that the calibrating element 51 is introduced through both through bores 15, 15' and slides in until the side plates 13, 13' abut with the additional bar 56, such that each of the side plates 13, 13' is housed in the gap 53 between both bars 54 of each U-shaped projection 52, the calibrating element 51 thus being coupled to both side plates 13, 13'. Figure 5 shows the calibrating element 51, and Figure 4 shows the calibrating element 51 coupled to the two side plates 13, 13'.

**[0030]** The bearing assembly of this embodiment comprises a sleeve 24 that is coaxial and external with respect to the rotating shaft 21, and a spring 61 arranged around the sleeve 24. The spring 61 is configured for returning the panic bar device 100 to the first standby position or to the second standby position, positions in which the bar 3 is not pushed. The calibrating element 51 comprises a projection 55 on which the spring 61 is held in place the spring 61 remaining tensioned, such that the calibrating element 51 is fixed to the side plates 13, 13' by the action of the spring 61. It can be observed in Figure 6 that one of the ends of the spring 61 is fixed to the first pushing element 41, and the other end of the spring 61 is fixed to the second pushing element 41', such that when the first pushing element 41 and the second pushing element 41' rotate because the bar 3 of the panic device 100 has been pushed, the spring 61 is subjected to a torsional force, such that when said torsional force disappears be-

cause the bar 3 is no longer being pushed, the spring 61 returns the panic bar device 100 to the first standby position or to the second standby position, depending on if the bearing assembly 1 has been fixed to a first side or to a second side of the door 101. The spring 61 is secured to the projection 55 of the calibrating element 51, thus pushing the calibrating element 51 towards the side plates 13, 13' such that the additional bar 56 of each U-shaped projection 52 abuts with the side plates 13, 13'.

**[0031]** The bearing assembly 1 of this embodiment comprises a guide element 71 positioned on the base plate 12 and the lock actuating element 31, and coupled to the side plates 13, 13', the lock actuating element 31 being coupled to the guide element 71, the guide element 71 preferably being manufactured in a plastic material.

**[0032]** The guide element 71 comprises a plurality of flanges 72, and each of the side plates 13, 13' comprises at least two bores 16, such that the guide element 71 is coupled to the side plates 13, 13' when each flange 72 is introduced into its respective bore 16. The guide element 71 of this embodiment can be seen in Figure 5, wherein the guide element 71 comprises four flanges 72, two flanges 72 on one side of the guide element 71, and two other flanges 72 on the other side. The side plates 13, 13' of this embodiment of the bearing assembly 1 can be seen in Figure 4, wherein the first side plate 13 comprises two bores 16, and the second side plate 13' also comprises two bores 16, such that the two flanges of one side of the guide element 71 are introduced into the two bores 16 of the first side plate 13, and the two flanges of the other side of the guide element 71 are introduced into the two bores 16 of the second side plate 13', the guide element 71 thus being coupled to the side plates 13, 13'.

**[0033]** In the bearing assembly 1 of this embodiment, the rotating shaft 21 comprises a through bore 22 in the longitudinal direction configured for housing an operating shaft 81 of the respective arm 2, as shown in Figure 9. The operating shaft 81 comprises a fixing element 82 and pushing means 83 configured for pushing the fixing element 82 radially out of the operating shaft 81, and the rotating shaft 21 comprises a bore 23 on the periphery of the housing 22 in the radial direction, the fixing element 82 being configured for being housed in the bore 23 when it is introduced into the housing 22 and fixing the operating shaft 81 to the rotating shaft 21. The housing 22 comprises a contour, and the fixing element 82 at least partially protrudes from the contour of the operating shaft 81 when the operating shaft 81 is not introduced into the housing 22. The fixing element 82 is configured so that when it abuts with the contour of the housing 22 upon introducing the operating shaft 81 into the housing 22, it is retracted and is housed inside the operating shaft 81. To that end, the part of the fixing element 82 which protrudes from the operating shaft 81 when the latter is not introduced into the housing 22 preferably has a curved or planar upward surface which allows the fixing element 82 to be retracted upon abutting with the contour of the housing 22 during the introduction of the operating shaft

81 into the housing 22. In another embodiment, the part of the fixing element 82 which protrudes from the operating shaft 81 may have another shape which allows the fixing element 82 to be retracted upon abutting with the contour of the housing 22 during the introduction of the operating shaft 81 into the housing 22. When, during the introduction of the operating shaft 81 into the housing 22, the fixing element 82 is facing the bore 23, the pushing means 83 push the fixing element 82 such that the fixing element 82 once again at least partially protrudes from the contour of the operating shaft 81, said part of the fixing element 82 which protrudes from the operating shaft 81 being housed in the bore 23, thereby fixing the operating shaft 81 to the rotating shaft 21. Figure 8 shows an embodiment of the arm 2 of the panic bar device 100, with the operating shaft 81 fixed to said arm 2. In another embodiment the operating shaft 81 can be fixed to the arm 2 by means of a screw, by means of adhesive, by means of welding, or by means of the use of other fixing means known in the state of the art.

**[0034]** The bearing assembly 1 of the invention facilitates its assembly on the door 101 since to fix the respective arm 2 there is no need to screw it to the corresponding bearing assembly 1, but rather it is sufficient for it to be inserted until the fixing element 82 is fixed in the bore 23 of the housing 22 of the rotating shaft 21.

**[0035]** The housing 22 of the rotating shaft 21 of this embodiment of the bearing assembly 1 and the operating shaft 81 have a cross section configured so that the operating shaft 81 can be introduced into the housing 22 in a single position. This thereby prevents a person in charge of fixing the respective arm 2 to the bearing assembly 1 from fixing the respective arm 2 incorrectly, given that there is only one possible position in which the operating shaft 81 can be introduced into the housing 22.

**[0036]** The cross section of the housing 22 of the rotating shaft 21 of this embodiment of the bearing assembly 1 and of the operating shaft 81 is a regular polygon with a bevel 84 in one of the vertices of said polygon, as shown in Figures 9 and 10.

**[0037]** In this embodiment of the bearing assembly 1, the rotating shaft 21 comprises an additional bore 23' on the periphery of the housing 22 in the radial direction, symmetrical to the bore 23 with respect to a plane perpendicular to a longitudinal axis of the rotating shaft 21 at the midpoint of said rotating shaft 21, such that when the operating shaft 81 is introduced into the rotating shaft 21 from a first end of the rotating shaft 21 the fixing element 82 is housed in the bore 23, and when the operating shaft 81 is introduced into the rotating shaft 21 from a second end of the rotating shaft 21 the fixing element 82 is housed in the additional bore 23'. The respective arm 2 can be introduced into the first end of the rotating shaft 21, or into the second end of the rotating shaft 21, which enables being able to fix the bearing assembly 1 on the first side or on the second side of the door 101. Figure 10 shows a section view of this embodiment of the bearing assembly 1, wherein the respective arm 2 has been

introduced into the first end of the rotating shaft 21, with the fixing element 82 of the operating shaft 81 being housed in the bore 23.

**[0038]** As shown in Figure 8, in this embodiment of the bearing assembly 1, the fixing element 82 is a pin.

**[0039]** As shown in Figure 8, in this embodiment bearing assembly 1, the pushing means 83 are a spring.

**[0040]** In this embodiment of the bearing assembly 1, the bore 23 on the periphery of the housing 22 in the radial direction is a through bore. It can be observed in Figure 10 that in this embodiment, the bore 23 communicates the housing 22 of the rotating shaft 21 with the outer surface of said rotating shaft 21.

**[0041]** The invention also relates to a panic bar device comprising a first bearing assembly 1 according to the invention, and a second bearing assembly 1' according to the invention without the lock actuating element 31. When the panic bar device 100 is fixed to the door 101, the first bearing assembly 1 is fixed on the first side of the door 101, and the second bearing assembly 1' is fixed on the second side of the door 101. Accordingly, the lock can be located on the first side or on the second side of the door 101, such that if the lock is located on the first side of the door 101, the bearing assembly 1' located on the second side of the door will be installed without the lock actuating element 31, since it is not necessary as there is no lock on the second side of the door 101, and without the sleeve 33. In the same manner, if the lock is located on the second side of the door 101, the bearing assembly 1' will be according to the invention and the bearing assembly 1 located on the first side of the door 101 will be installed without the lock actuating element 31 and without the sleeve 33.

## Claims

1. Bearing assembly of a panic bar device (100), the panic bar device (100) being of the type comprising

- a first bearing assembly (1) and a second bearing assembly (1') configured for being fixed to a door (101), the first bearing assembly (1) being arranged on a first side of the door (101) and the second bearing assembly (1') being arranged on a second side of the door (101),
- a first arm (2) pivotally coupled at a first end to the first bearing assembly (1),
- a second arm (2') pivotally coupled at a first end to the second bearing assembly (1'), and
- a bar (3) coupled to a second end of the first arm (2) and to a second end of the second arm (2'), such that the bar (3), the first arm (2), and the second arm (2') pivot with respect to the bearing assemblies (1, 1') when the bar (3) is pushed,

the bearing assembly (1) comprising

- a bearing element (11) comprising

- a base plate (12) configured for being fixed to the door (101),
- a first side plate (13) attached to the base plate (12) on one of its sides, and a second side plate (13') attached to the base plate (12) on the opposite side facing the first side plate (13), each side plate (13, 13') comprising a bore (14, 14'), both bores (14, 14') facing one another,

- a rotating shaft (21) housed in the bores (14, 14') of the side plates and configured for rotating together with the respective arm (2) of the panic bar device (100),

- a lock actuating element (31) coupled to the base plate (12) configured for rotating about an axis perpendicular to the base plate (12) and acting on a lock, and

- pushing means coupled to the rotating shaft (21) and configured for rotating together with the rotating shaft (21) and pushing a projection (32) of the lock actuating element (31), making said lock actuating element (31) rotate,

**characterized in that**

the bearing assembly (1) is configured for being arranged interchangeably on the first side or on the second side of the door (101), for which purpose

the pushing means comprise a first pushing element (41) and a second pushing element (41'), and

the lock actuating element (31) comprises

- a first standby position in which the projection (32) of the lock actuating element (31) is arranged in a first angular position, and
- a second standby position in which the projection (32) of the lock actuating element (31) is arranged in a second angular position,

such that

when the lock actuating element (31) is arranged in the first standby position and the bar (3) is pushed, the first pushing element (41) pushes the projection (32) of the lock actuating element (31), the lock actuating element (31) rotating in one direction, and when the lock actuating element (31) is arranged in the second standby position and the bar (3) is pushed, the second pushing element (41') pushes the projection (32) of the lock actuating element (31), the lock actuating element (31) rotating in the opposite

direction.

2. Bearing assembly according to claim 1, wherein the first pushing element (41) and the second pushing element (41') are coupled to the rotating shaft (21) and are configured for directly pushing the projection (32) of the lock actuating element (31).
3. Bearing assembly according to claim 2, wherein the pushing elements (41, 41') are plates parallel to the side plates (13, 13') comprising a respective projection (42, 42') configured for pushing the projection (32) of the lock actuating element (31).
4. Bearing assembly according to any of the preceding claims, wherein the bearing assembly (1) is configured for being positioned with the same orientation regardless of whether it is arranged on the first side or on the second side of the door (101).
5. Bearing assembly according to any of the preceding claims, wherein the lock actuating element (31) is arranged centered between the two side plates (13, 13'), the projection (32) of said lock actuating element (31) being arranged close to the first side plate (13) when said lock actuating element (31) is arranged in the first standby position, said projection (32) being arranged close to the second side plate (13') when said lock actuating element (31) is arranged in the second standby position, the first pushing element (41) being arranged close to the first side plate (13), and the second pushing element (41') being arranged close to the second side plate (13').
6. Bearing assembly according to any of the preceding claims, wherein the pushing elements (41, 41') are arranged outside a delimited area between the two side plates (13, 13').
7. Bearing assembly according to any of the preceding claims, wherein the first side plate (13) and the second side plate (13') are arranged symmetrically with respect to a plane of symmetry parallel to the first side plate (13) and to the second side plate (13'), said plane of symmetry being situated at the same distance from both side plates (13, 13').
8. Bearing assembly according to any of the preceding claims, comprising a calibrating element (51) configured for being coupled to the two side plates (13, 13') so that both side plates (13, 13') remain parallel to one another and perpendicular to the base plate (12).
9. Bearing assembly according to claim 8, wherein the calibrating element (51) comprises a U-shaped projection (52) at each of its ends, each projection (52) comprising two bars (54) facing and attached to one

another by means of an additional bar (56) and a gap (53) between both bars, and each side plate (13, 13') comprises a through bore (15, 15'), such that the calibrating element (51) is introduced through both through bores (15, 15') and slides in until the side plates (13, 13') abut with the additional bar (56), such that each of the side plates (13, 13') is housed in the gap (53) between both bars (54) of each U-shaped projection (52), the calibrating element (51) thus being coupled to both side plates (13, 13').

10. Bearing assembly according to claim 8 or 9, comprising a sleeve (24) that is coaxial and external with respect to the rotating shaft (21), and a spring (61) arranged around the sleeve (24) configured for returning the panic bar device (100) to the first standby position or to the second standby position in which the bar (3) is not pushed, wherein the calibrating element (51) comprises a projection (55) on which the spring (61) is held in place said spring (61) remaining tensioned, such that the calibrating element (51) is fixed to the side plates (13, 13') by the action of the spring (61).
11. Bearing assembly according to any of the preceding claims, wherein the bearing assembly (1) comprises a guide element (71) positioned on the base plate (12) and the lock actuating element (31), and coupled to the side plates (13, 13'), the lock actuating element (31) being coupled to the guide element (71), the guide element (71) preferably being manufactured in a plastic material.
12. Bearing assembly according to claim 11, wherein the guide element (71) comprises a plurality of flanges (72), and each of the side plates (13, 13') comprises at least two bores (16), such that the guide element (71) is coupled to the side plates (13, 13') when each flange (72) is introduced into its respective bore (16).
13. Bearing assembly according to any of the preceding claims, wherein the rotating shaft (21) comprises a through bore (22) in the longitudinal direction configured for housing an operating shaft (81) of the respective arm (2).
14. Bearing assembly according to claim 13, wherein the operating shaft (81) comprises a fixing element (82) and pushing means (83) configured for pushing the fixing element (82) radially out of the operating shaft (81), and the rotating shaft (21) comprises a bore (23) on the periphery of the housing (22) in the radial direction, with the fixing element (82) being configured for being housed in the bore (23) when it is introduced into the housing (22) and fixing the operating shaft (81) to the rotating shaft (21).

#### 15. Panic bar device comprising

- a first bearing assembly (1) according to any of the preceding claims, and
- a second bearing assembly (1') according to any of the preceding claims without the lock actuating element (31).

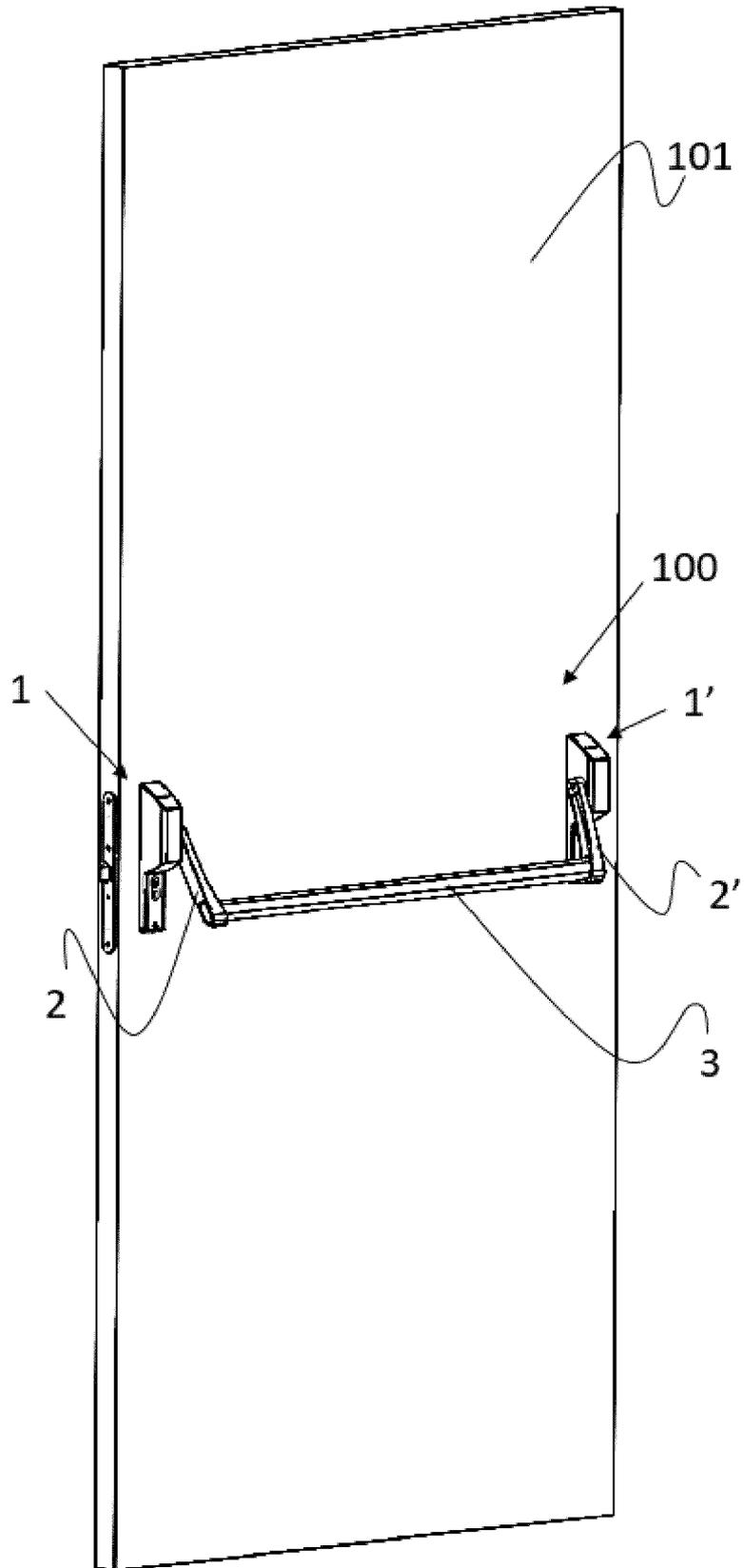
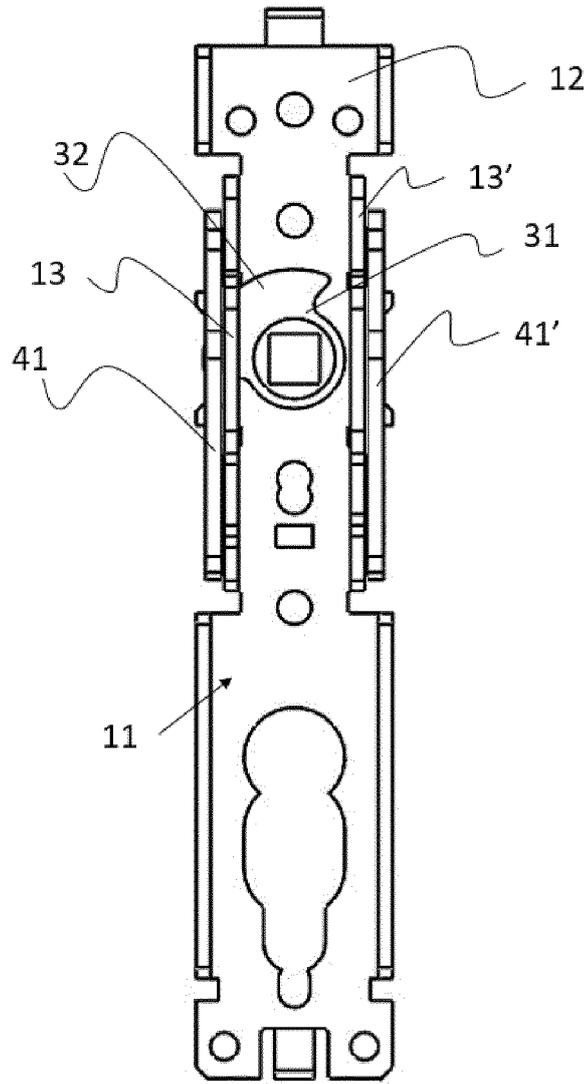
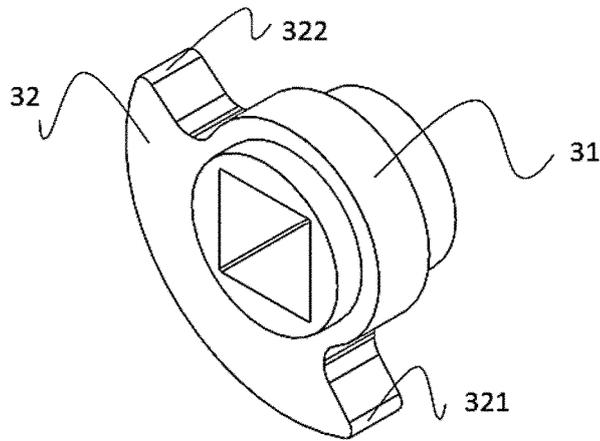


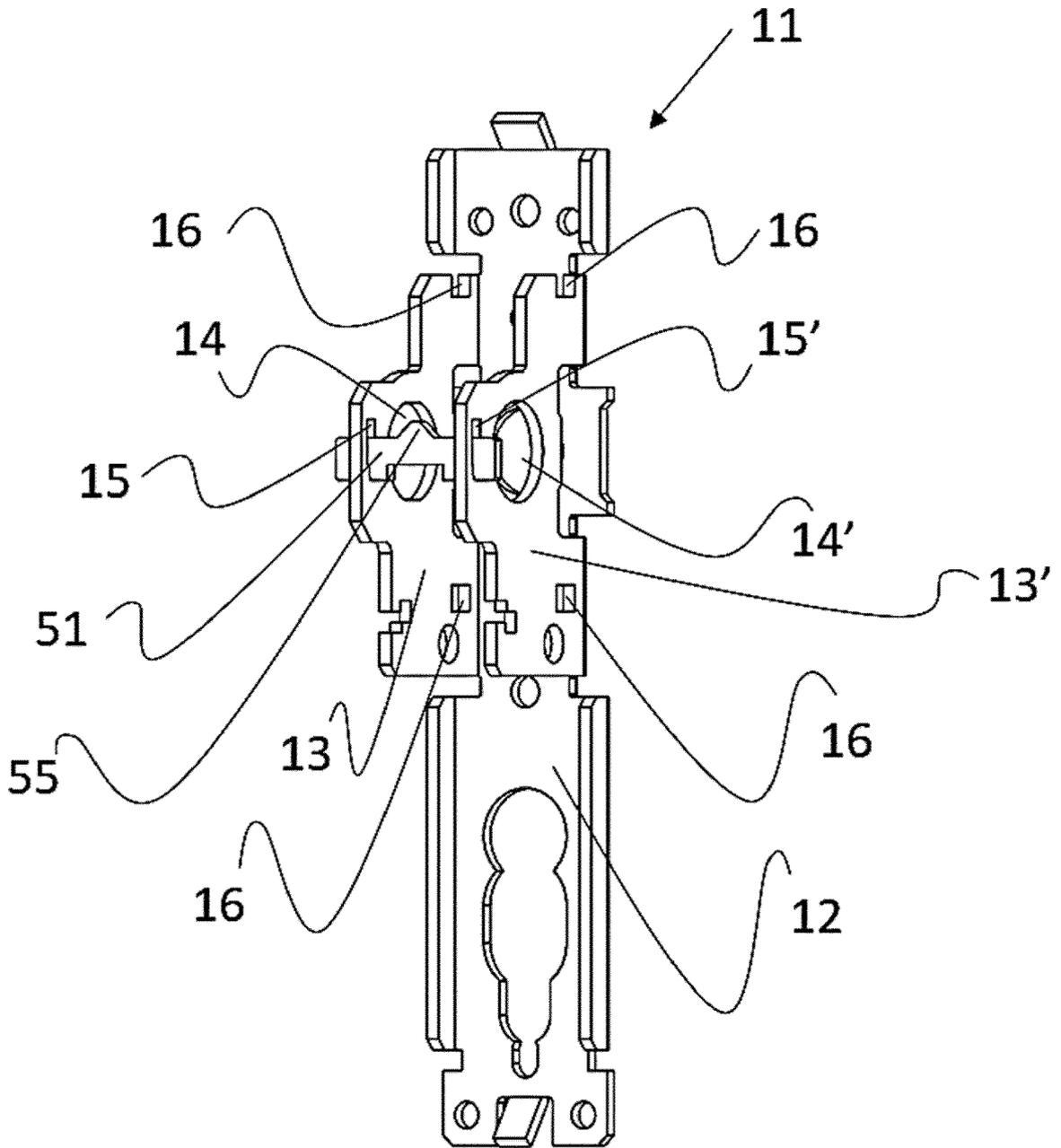
FIG. 1



**FIG. 2**



**FIG. 3**



**FIG. 4**

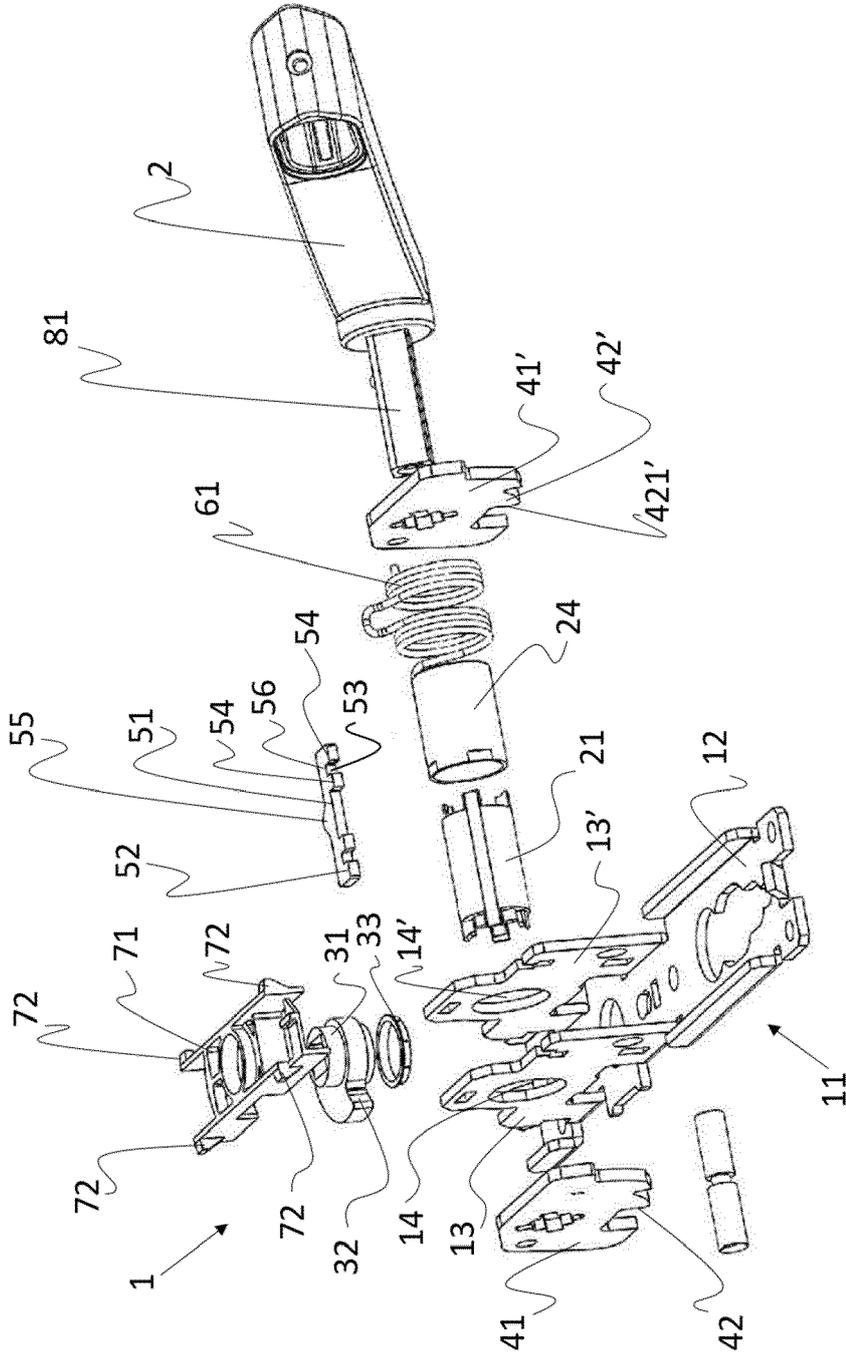


FIG. 5

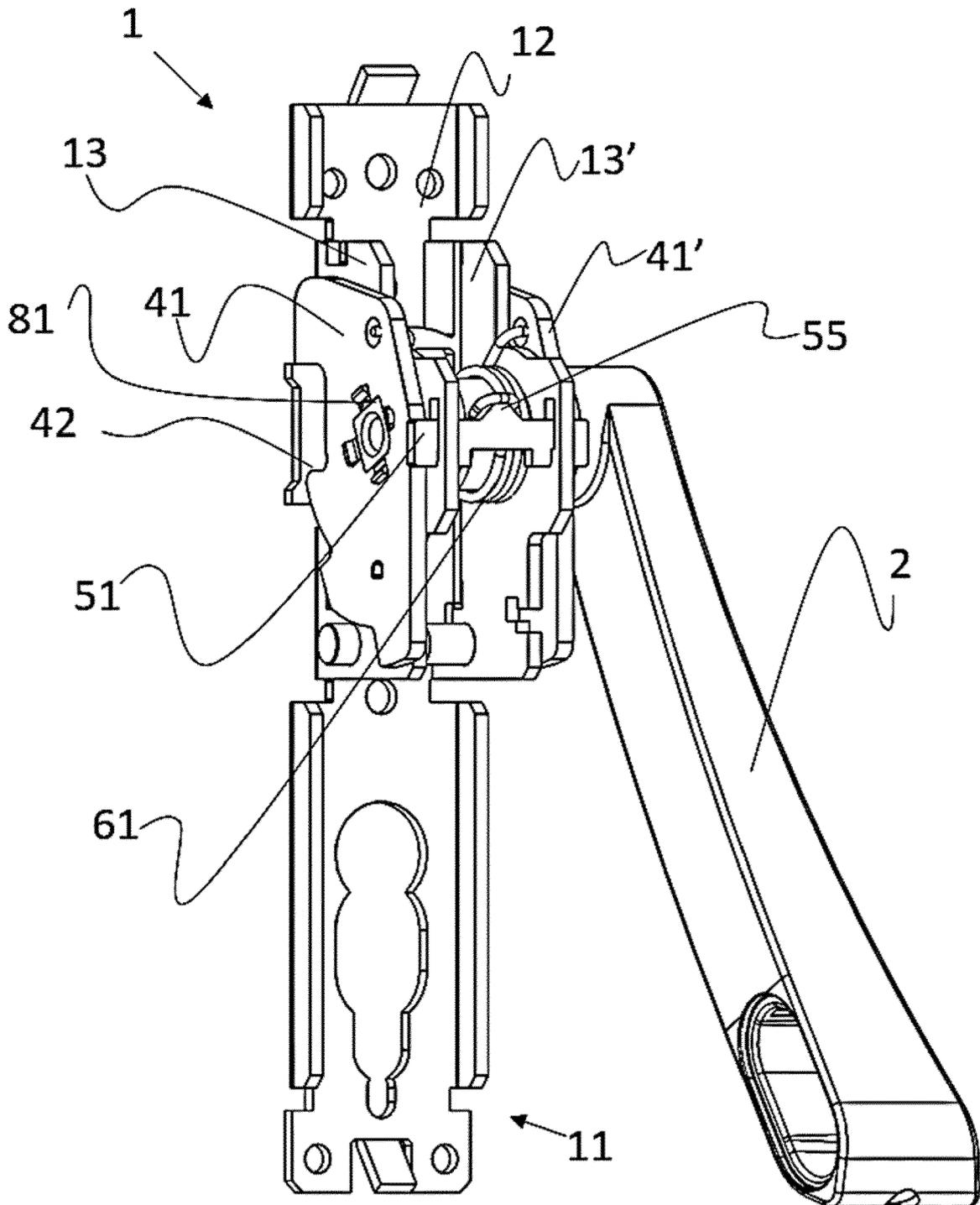


FIG. 6

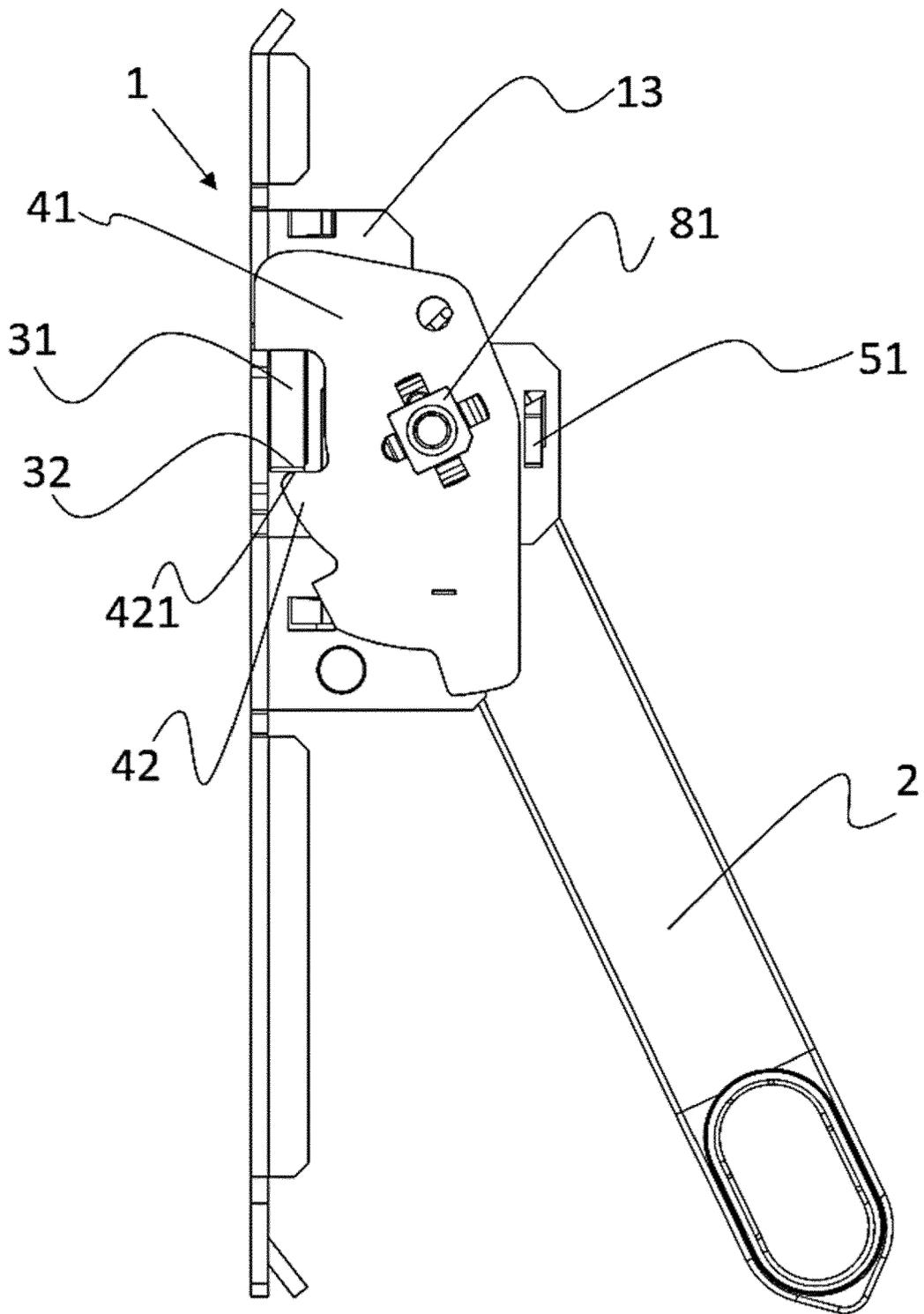
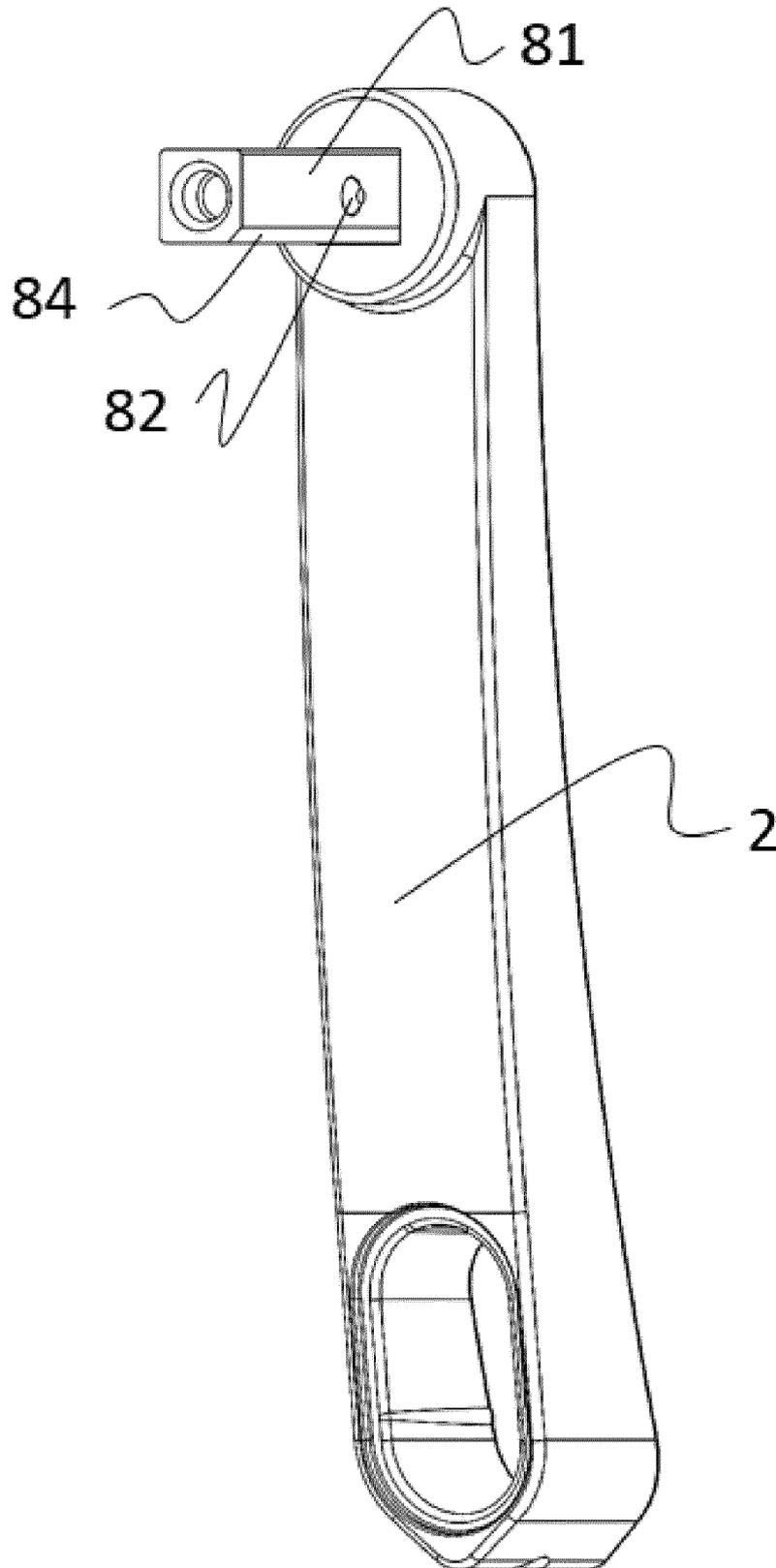
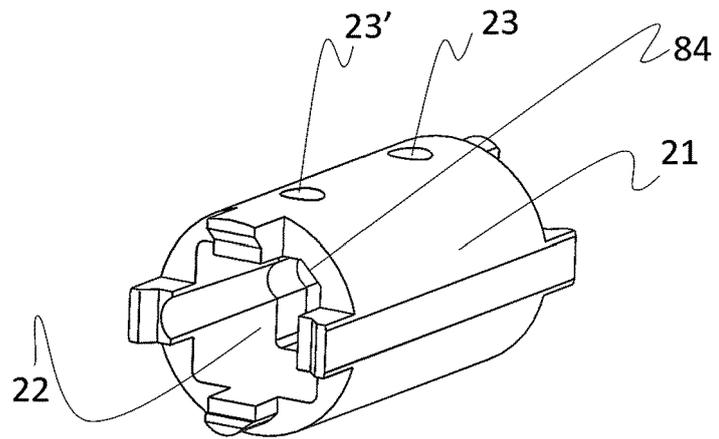


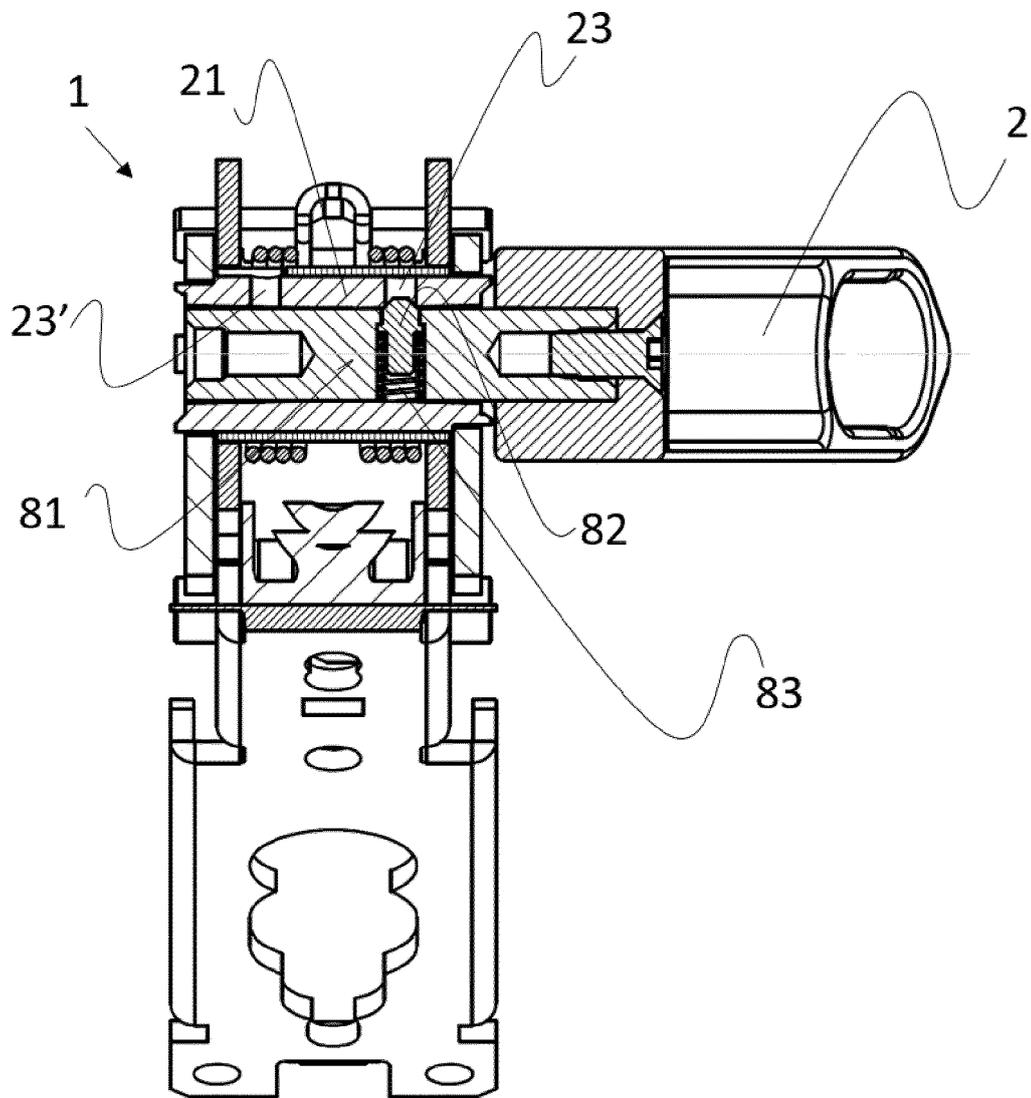
FIG. 7



**FIG. 8**



**FIG. 9**



**FIG. 10**



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Application Number  
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