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Utility model

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Device for carrying handguns
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Device for carrying handguns

5 The invention relates to a device for carrying handguns, with a carrying plate that can be fastened to a strap or belt, which has an insertion opening and a long slot adjoining it, the lower, semicircular end of which forms a pendulum bearing for receiving a pendulum pin, with a pendulum bar which can be detachably and pivotably fastened to the carrying plate via the pendulum pin, to which a pocket for receiving a handgun is fastened and whose
10 pendulum bolt has a retaining flange at its free end which can be passed through the insertion opening and engages behind the carrying plate, and with a leaf spring arranged on the rear side of the carrying plate facing away from the pendulum bar, which automatically arrests the pendulum pin when it is pushed into the pendulum bearing and can be pushed out of the arrested position by means of a push button accessible from the
15 outside.

Such devices, known as pendulum bar holsters, offer particular advantages for use by police and security services, where weapon carriers wear the holsters on their belts while standing, sitting at a desk, or sitting in vehicles. The pouch containing the weapon, which
20 is fastened to the pendulum bar, can be pivoted into the appropriate position when sitting down.

Such a device is known from DE-GM 82 28 534. In this device, the push button for pressing the leaf spring out of the arrested position is located approximately in the middle
25 of the leaf spring. In this arrangement, the leaf spring must be relatively long, as there must be space between its upper pivot point and the pendulum bearing to receive the push button, and the distance between the upper pivot point and the push button must be sufficiently large so that a sufficiently low spring constant prevails at the point of contact of the push button, so that when the push button is pressed through the leaf spring by a
30 predetermined distance, only a low spring force is generated and the push button can be easily operated by the weapon carrier.

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Due to the necessary length of the leaf spring, the distance between the fastening of the carrying device and the weapon is relatively large. This large distance allows the weapon to perform disruptive swinging and pendulum movements when walking.

1 The purpose of the invention is to design carrying devices for handguns, in particular for pistols and revolvers, in such a way that the leaf spring and thus the carrying plate can be significantly shortened, wherein the leaf spring can still be easily and reliably pressed out of the arrested position using the push button.

5 This task is solved by the invention in that the pendulum bolt has a continuous recess which is covered by the leaf spring in the arrested position and in which a bolt movable against the leaf spring is mounted, which is connected to the push button.

10 Due to the arrangement of the push button, which is firmly connected to the bolt, coaxially to the pendulum bolt, the force exerted on the push button in the arrested position acts on the free end of the leaf spring, where the spring constant of the leaf spring is lowest. The leaf spring can therefore be shortened considerably without the spring force exceeding a value that makes it difficult for the weapon carrier to press the push button
15 when the specified compression travel is reached. Furthermore, no space is required in the carrying plate to receive the push button.

By shortening the leaf spring and the carrying plate, the overall distance between the weapon pouch and the fastening of the carrying plate to the belt is reduced, so that the pendulum length between the belt fastening and the weapon is also reduced and the
20 weapon performs significantly less disruptive swinging and pendulum movements when the weapon carrier moves.

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1 The automatic arresting mechanism can be achieved, as in DE-GM 82 28 534, by a
locking edge on the leaf spring that rests against the circumferential surface of the
retaining flange. However, the leaf spring must extend beyond the locking edge so that it
at least partially covers the recess in the pendulum bolt.

5 In a preferred embodiment, the leaf spring has an arresting lug at its end which engages in the
recess of the pendulum bolt when in the arrested position.

10 To ensure that the bolt is firmly secured to the arresting lug of the leaf spring, a coil
spring can be arranged between the bolt and the pendulum bar, which presses the bolt
against the arresting lug in the arrested position. The coil spring prevents the bolt from
moving in the continuous recess, so that the bolt cannot rattle when the weapon carrier
moves. The coil spring continues to support the release force applied to the push button
and makes it easier to push the leaf spring out of the arrested position. If the spring force
15 of the leaf spring is sufficiently low that it can be easily overcome by the weapon carrier
without the support of the coil spring by simply pressing the push button, the coil spring
can be omitted. In this case, the bolt must be sufficiently long in the axial direction so that
it is pressed against the pendulum bar by the arresting lug of the leaf spring with a low
spring force.

1 Advantageously, the device according to the invention is further provided with a spring-
loaded detent on the pendulum bar, which rests against the carrying plate in the arrested
position and engages in at least one detent recess arranged on the carrying plate. This
allows the pendulum bar with the carrying pouch for the weapon to be arrested in at least
5 one desired position by the weapon carrier and prevents it from swinging around the
pendulum pin due to movements of the weapon carrier.

The detent preferably consists of a short leaf spring with a detent pin that can engage in
10 five detent recesses arranged on the carrying plate on a circle concentric with the
pendulum bearing at an angle of 45° to each other.

To prevent the pendulum bar from being separated from the carrying plate by
unauthorized persons, an additional safety device can be provided which allows the
pendulum bar to be separated from the carrying plate only at a certain angle. For this
15 purpose, the retaining flange of the pendulum bolt and the insertion opening in the
carrying plate must be provided with corresponding non-circular contours which only
coincide in a certain angular position so that the retaining flange can be pushed through
the insertion opening. A suitable contour is, for example, a circular contour with a locking
lug protruding radially from the retaining flange and a notch running radially in the
20 insertion opening. Alternatively, the retaining flange and insertion opening can be
triangular in shape, for example.

In order to prevent unnecessary difficulty in separating the pendulum bar from the
25 carrying plate for the weapon carrier, a stop may be provided which delimits the pivot
movement of the pendulum bar to the specific angle at which the pendulum bar can be
separated from the carrying plate.

1 Further features are apparent from the subclaims and the following description of the drawings.

5 The drawings show in

- Fig. 1 the side view of a carrying device according to the invention,
Fig. 2 the front view of a carrying plate of the carrying device according to the invention,
Fig. 3 the front view of the pendulum bar of the carrying device according to the invention,
Fig. 4 a side view of the carrying plate and the opposite pendulum bar in section,
Fig. 5 a side view of the carrying plate with the pendulum bolt of the pendulum bar pushed into in the arrested position, in section,
Fig. 6 a view corresponding to Fig. 5 with the leaf spring unlocked by pressing the push button, and
Fig. 7 and 8 the rear view of a further embodiment of the pendulum bar and the carrying plate, respectively.

20 The carrying device shown in Fig. 1 consists of a pouch 1 for receiving a handgun, which is fastened to a pendulum bar 2. The upper end of the pendulum bar 2 is connected to a carrying plate 3, at the upper end of which a loop 4 is arranged for fastening the carrying device to a belt or strap. In this embodiment, the loop 4 is formed by a leather cover 5 which encloses the carrying plate 3 on both sides. However, the unit formed by carrying plate 3 and loop 4 can also be manufactured using plastic injection molding.

25 Fig. 2 shows the carrying plate 3 with the insertion opening 6 and the pendulum bearing 7 connected to it at the bottom. The carrying plate 3 is fastened to a spring steel sheet 8 so that the weapon is essentially rigid but flexible when fastened to the belt or holster of the weapon carrier. The leaf spring 9 is arranged behind the spring steel sheet 8. In this embodiment, the carrying plate 3, spring steel sheet 8, and leaf spring 9 are connected to each other by means of two rivets. The leaf spring 9 can also be punched directly from the spring steel sheet 8. The arresting lug 10 fastened to the leaf spring 9 can be seen in the middle of the pendulum bearing 7.

1 Fig. 3 shows the pendulum bar 2 with the rivet holes for fastening the weapon pouch 1 and a push button 11 for unlocking the arresting device formed by the leaf spring 9 and the arresting lug 10.

5 The side view of the carrying plate 3 and the pendulum bar 2 shown in Fig. 4 illustrates the function of the device for connecting the carrying plate 3 and the pendulum bar 2. The pendulum bolt 12 is fastened to the pendulum bar 2, for example by gluing or welding. The free end of the pendulum bolt 12 is closed off by a retaining flange 13, which can be pushed through the insertion opening 6 of the carrying plate 3. The insertion opening 6 is
10 connected downwards to the pendulum bearing 7, into which the pendulum bolt 12 can be pushed, with the retaining flange 13 engaging behind the regions of the carrying plate 3 to the side of the pendulum bearing 7.

15 The pendulum bolt 12 is provided with a recess 14 into which the arresting lug 10 of the leaf spring 9 engages when the pendulum bolt 12 slides into the pendulum bearing 7 of the carrying plate 3.

Furthermore, Fig. 4 shows the bolt 15 received in the recess 14 of the pendulum bolt 12, which is formed here by a screw and screwed into a threaded hole in the push button 11.
20 To prevent bolt 15 from moving back and forth uncontrollably in recess 14, it is supported against the pendulum bar 2 by a coil spring 16.

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1 Figures 2 through 4 also show a detent device for holding the pendulum bar 2 in specific
angular positions relative to the carrying plate 3. It is formed by a detent 18 provided with
a detent pin 17 on the pendulum bar 2 and by detent recesses 19 on the carrying plate 3.
Five detent recesses 17 [sic: 19] are arranged at an angle of 45° to each other on a circle
5 concentric with the pendulum bearing 7, with the middle detent recess located vertically
below the pendulum bearing 7.

Figs. 5 and 6 show an enlarged view of the pendulum bar 2 connected to the carrying
plate 3. In Fig. 5, the pendulum pin 12 is pushed into the pendulum bearing 7, and the
10 arresting lug 10 of the leaf spring 9 engages in the recess 14 of the pendulum pin 12 and
arrests it rotatably in the pendulum bearing 7. The leaf spring 9 compresses the coil spring
16 between the bolt 15 and the pendulum bar 2. To release the connection between
carrying plate 3 and pendulum bar 2, push button 11 must be pressed in as shown in Fig.
6 so that bolt 15 pushes arresting lug 10 out of recess 14 in pendulum bolt 12 against the
15 spring force of leaf spring 9. Now the pendulum bolt 12 can be pushed upwards out of the
pendulum bearing 7 and the retaining flange 13 can be pulled out through the insertion
opening 6.

Figures 5 and 6 also illustrate the function of the detent device. The detent pin 17 engages
20 here in the lower detent recess 19 of the carrying plate 3 and arrests the pendulum bar in a
downward vertical position. If the weapon carrier wishes to change the position of the
pendulum bar 2, for example when sitting down, they can turn it by hand, wherein the detent
pin 17 slides out of the detent recess 19 against the spring force of the detent 18 and locks
into another detent recess 19.

1 Figs. 7 and 8 show the rear view, i.e., the view of the side facing the body when carried,
of the pendulum bar 2 and the carrying plate 3, which show an alternative embodiment of
the retaining flange 13 of the pendulum bolt 12 and the insertion opening 6, respectively.
The retaining flange 13 of the bolt 12 fastened to the pendulum bar 2, shown in Fig. 7,
5 has a locking lug 20 pointing upward and to the left, so that its contour deviates from the
round shape. A notch 21 is arranged in the insertion opening of the carrying plate 3
shown in Fig. 8, pointing upwards to the right. This means that the retaining flange 13 can
only be pulled through the insertion opening 6 when the pendulum bar is pivoted 90° to
the carrying plate. Otherwise, locking lug 20 will block behind the material of carrying
10 plate 3 adjacent to insertion opening 6. This ensures that the pendulum bar with the
weapon cannot be unlocked and removed by unauthorized persons simply by pressing the
push button and pulling upwards.

15 In order to make it easier for the weapon carrier to pass the retaining flange 13 through
the insertion opening 6 in the specified angular position, a stop may be provided which
delimits the pivot movement of the pendulum bar 2 in the specified angular position, here
90° to the vertical. The stop is not shown in the drawings.

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1 Reference list:

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|----|----|--------------------|
| | 1 | Pouch |
| | 2 | Pendulum bar |
| 5 | 3 | Carrying plate |
| | 4 | Loop |
| | 5 | Leather cover |
| | 6 | Insertion opening |
| | 7 | Pendulum bearing |
| 10 | 8 | Spring steel sheet |
| | 9 | Leaf spring |
| | 10 | Arresting lug |
| | 11 | Push button |
| | 12 | Pendulum pin |
| 15 | 13 | Retaining flange |
| | 14 | Recess |
| | 15 | Bolt |
| | 16 | Coil spring |
| | 17 | Detent pin |
| 20 | 18 | Detent |
| | 19 | Detent recess |
| | 20 | Locking lug |
| | 21 | Notch |

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1 Protection claims:

1. A device for carrying handguns, with a carrying plate (3) that can be fastened to a strap or belt, which has an insertion opening (6) and a long slot adjoining it, the lower,
5 semicircular end of which forms a pendulum bearing (7) for receiving a pendulum pin (12), with a pendulum bar (2) which can be detachably and pivotably fastened to the carrying plate (3) via the pendulum pin (12), to which a pocket (1) for receiving a handgun is fastened and whose pendulum bolt (12) has a retaining flange (13) at its free end which can be passed through the insertion opening (6) and engages behind the
10 carrying plate (3), and with a leaf spring (9) arranged on the rear side of the carrying plate (3) facing away from the pendulum bar (2), which automatically arrests the pendulum pin (12) when it is pushed into the pendulum bearing (7) and can be pushed out of the arrested position by means of a push button (11) accessible from the outside, characterized in that the pendulum bolt (12) has a continuous recess (14) which is covered
15 by the leaf spring (9) in the arrested position and in which a bolt (15) movable against the leaf spring (9) is mounted, which bolt is connected to the push button (11).

2. The device according to claim 1, characterized in that an arresting lug (10) is arranged on the leaf spring (9), which engages in the arrested position in the recess (14) of the
20 pendulum bolt (12).

3. The device according to claim 2, characterized in that a coil spring (16) is arranged between the bolt (15) and the pendulum bar (2), which holds the push button (11) fastened to the bolt (15) in contact with the pendulum bar (2) when the latter is separated
25 from the carrying plate (3).

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1 4. The device according to one of claims 1 through 3, characterized in that a spring-
loaded detent (18) is arranged on the pendulum bar (2), which rests against the carrying
plate (3) in the arrested position and engages in at least one detent recess (19) arranged on
the carrying plate (3).

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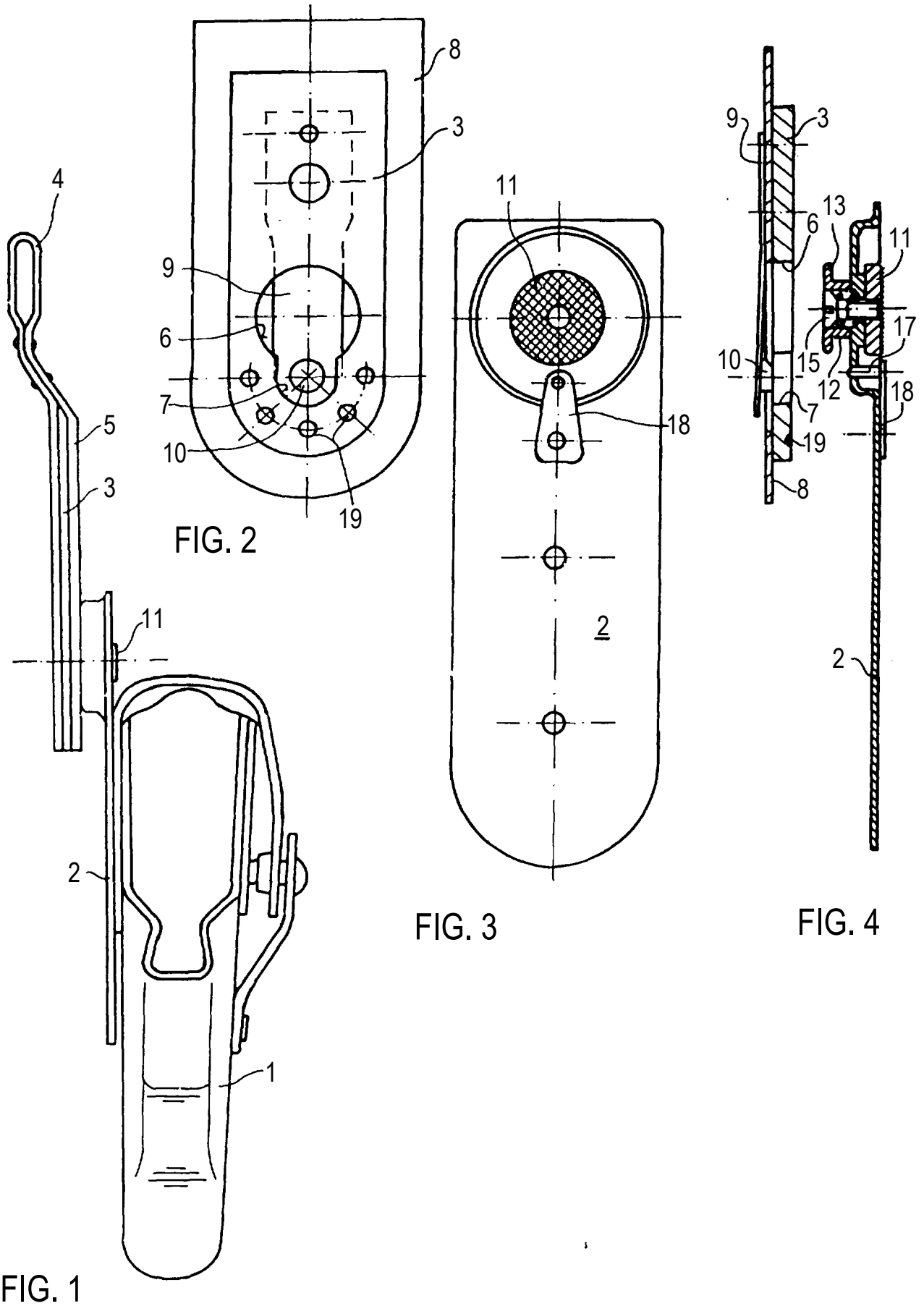
5. The device according to claim 4, characterized in that the detent (18) is a leaf spring
fastened to the pendulum bar (2) and provided with a detent pin (17).

6. The device according to claim 4 or 5, characterized in that the carrying plate (3) has
10 several detent recesses (19) arranged on a circle concentric with the pendulum bearing (7)
at an angle of 45°.

7. The device according to one of claims 1 through 6, characterized in that the retaining
flange (13) and the insertion opening (6) have corresponding non-circular contours which
15 only coincide in a specific angular position in such a way that the retaining flange (13)
can be pushed through the insertion opening (6).

8. The device according to claim 7, characterized in that a stop is provided which delimits
20 the pivot movement of the pendulum bar (2) in the specified angular position.

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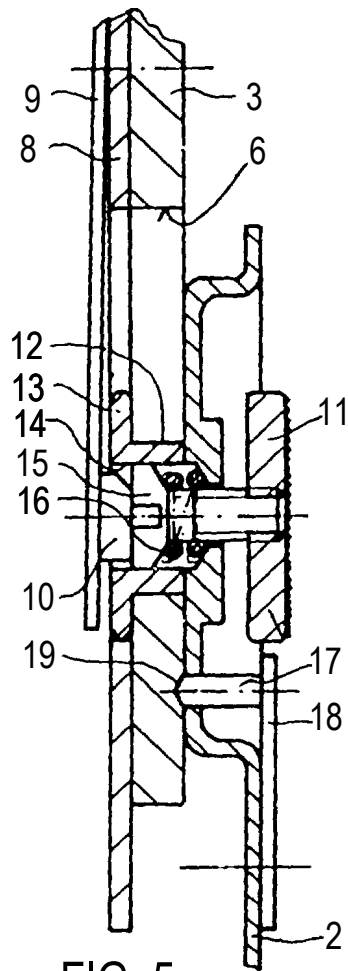


FIG. 5

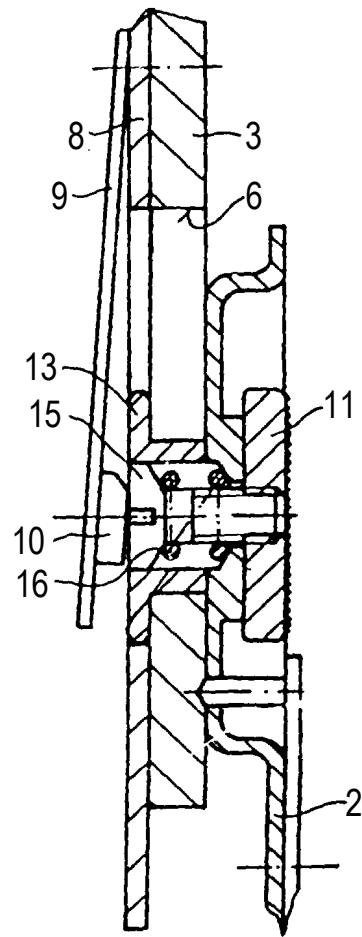


FIG. 6

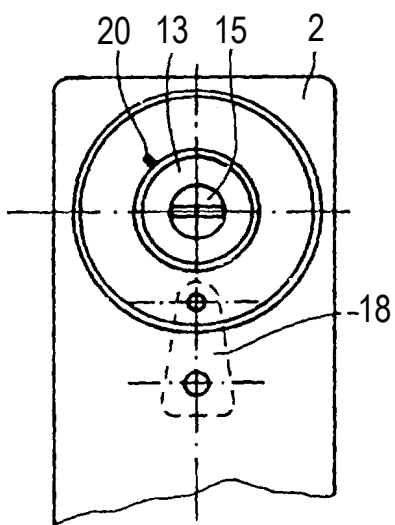


FIG. 7

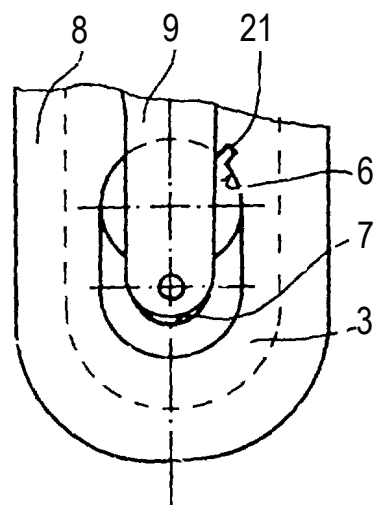


FIG. 8

City of New York, State of New York, County of New York

I, Jacqueline Yorke, hereby certify that the document “**DE_9308896_U1**” is, to the best of my knowledge and belief, a true and accurate translation from German into English.

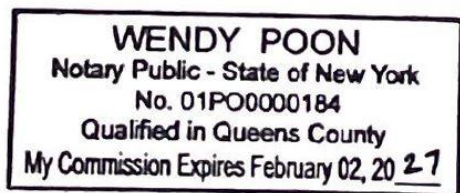


Jacqueline Yorke

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August 8, 2025



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