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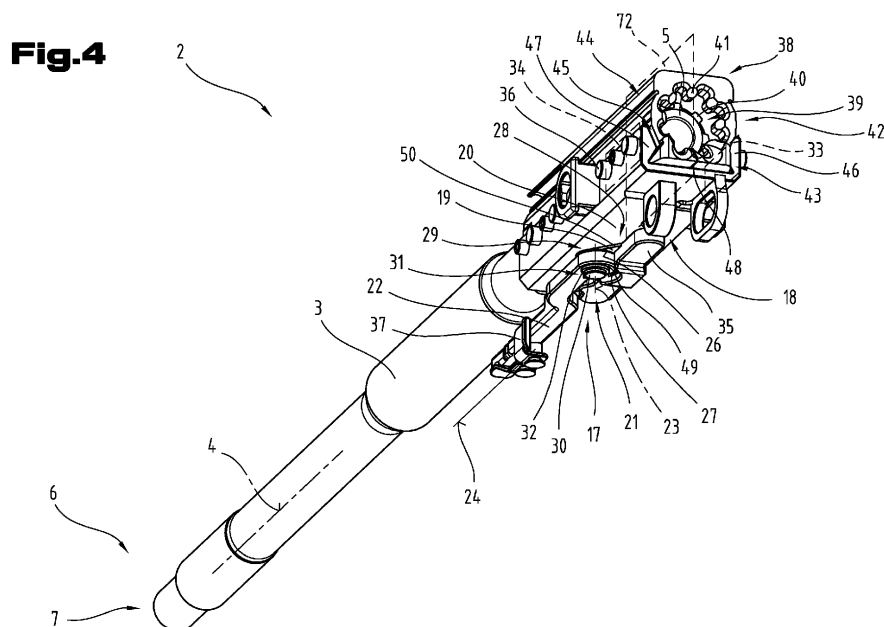
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Rechtsanwalt GmbH****Rosenauerweg 16****4580 Windischgarsten (AT)**(71) Applicant: **Glock Technology GmbH****9170 Ferlach (AT)**(54) **BARREL ASSEMBLY FOR A FIREARM**

(57) The invention relates to a barrel assembly (2) for a firearm (1). The barrel assembly (2) comprises:

- a barrel (3);
- a clamping device (17) for clamping the barrel (3), wherein the clamping device (17) has a first clamping jaw (19) and a second clamping jaw (20);
- an eccentric clamp (21) with a clamping lever (22) for clamping the clamping jaws (19, 20) in relation to one another.

A clearance (28) is formed in the second clamping jaw (20), and the first clamping jaw (19) has a clamping

lever mount (29), wherein the clamping lever mount (29) reaches into the clearance (28), wherein the first clamping jaw (19) and the second clamping jaw (20) partially overlap, wherein the clamping lever (22) is mounted pivotably about the pivot axis (23) on the clamping lever mount (29) of the first clamping jaw (19) and wherein the second clamping jaw (20) has an abutment (27) for the butting of the butting surface (26), wherein the abutment (27) lies closer to the side of the second clamping jaw (20) than the pivot axis (23).

Fig.4**EP 4 425 088 A1**

Description

[0001] The invention relates to a barrel assembly for a firearm, in particular for a carbine, as well as to a firearm comprising the barrel assembly.

[0002] The firearm according to the invention may preferably be a carbine, but it may also be a semiautomatic or automatic rifle, a machine gun, a repeating rifle, a shotgun, some other rifle, a submachine gun, a pistol etc. Firearms are guns that can be carried and used by one person.

[0003] In recent years, it is increasingly being demanded by various interest groups that it must be possible to be able to uninstall and reinstall the barrel of a firearm, in particular a carbine, without great effort. This may take place for example in order to be able to use barrels of different lengths, or else to be able to use barrels of different calibres. Furthermore, this may also be helpful in order to allow improved transporting or cleaning of the firearm.

[0004] DE202012101602U1 discloses in this respect a dismantlable firearm, with a barrel frictionally held in a receiver by means of a clamping device, wherein the clamping device has two clamping jaws which can be clamped in opposite directions and lie against the barrel, and also a clamping element, with which the clamping jaws are pressed against the barrel.

[0005] The clamping device disclosed in DE202012101602U1 requires a greater amount of space and is also insufficiently user-friendly.

[0006] The object of the present invention was to provide an improved barrel assembly, as well as an improved firearm.

[0007] This object is achieved by a barrel assembly for a firearm, in particular for a carbine, as well as a firearm comprising the barrel assembly, according to the claims.

[0008] The invention concerns a barrel assembly for a firearm, in particular for a carbine. The barrel assembly comprises:

- a barrel with a first barrel end, in the longitudinal extent of a barrel bore axis, wherein the barrel bore axis is arranged in particular in a weapon median plane;
- a clamping device for clamping the barrel, wherein the clamping device has a first clamping jaw and a second clamping jaw;
- an eccentric clamp with a clamping lever for clamping the first clamping jaw and the second clamping jaw in relation to one another, wherein the clamping lever has a pivot axis and a butting surface, wherein the butting surface is formed eccentrically in relation to the pivot axis, wherein the clamping lever is pivotable with respect to the pivot axis between a clamping position and a releasing position. A clearance is formed in the second clamping jaw, and the first clamping jaw has a clamping lever mount, wherein the clamping lever mount reaches into the clearance, in particular the first clamping jaw and the second clamping jaw partially overlap, wherein the clamping lever is mounted pivotably about the pivot axis on the clamping lever mount of the first clamping jaw and wherein the second clamping jaw has an abutment for the butting of the butting surface, wherein the abutment lies closer to the side of the second clamping jaw than the pivot axis.

[0009] The barrel assembly according to the invention has the advantage that the clamping device or the eccentric clamp can be of a simple and space-saving construction. As a result, improved operation of the eccentric clamp is made possible. Furthermore, this measure allows the eccentric clamp to be formed on the firearm while taking up as little space as possible.

[0010] It may also be expedient if the first clamping jaw and the second clamping jaw are at least in some sections separated from one another by a slit, wherein the slit separates the clearance and the clamping lever mount from one another. This has the advantage that this measure allows the first clamping jaw and the second clamping jaw to be displaced in relation to one another, in order to be able to be clamped by means of the eccentric clamp.

[0011] It may be provided in particular that the clamping lever mount of the first clamping jaw reaches beyond the weapon median plane into the second clamping jaw.

[0012] It may also be provided that a clamping lever bolt is formed on the clamping lever mount and that a clamping lever hole is formed in the clamping lever, wherein the clamping lever bolt reaches into the clamping lever hole. This measure allows the clamping lever to be easily mounted on the clamping lever mount.

[0013] It may additionally be provided that the clamping lever is secured on the clamping lever bolt by means of a clamping-lever securing ring.

[0014] It may also be provided that the clamping device has a base, wherein the first clamping jaw and the second clamping jaw are formed as one part with the base, wherein the slit extends from the base over a longitudinal extent of the first clamping jaw and the second clamping jaw. In the case of such an embodiment, a clamping of the clamping jaws can be achieved as a result of the attachment of the first clamping jaw and the second clamping jaw to the base

element and as a result of the formation of the slit with an elastic deformation of the base element or of the clamping jaws.

[0015] It may also be provided that the clamping device has on an underside, between the base and the first clamping jaw and/or between the base and the second clamping jaw, a transverse slit, which adjoins the slit. In other words, it may be provided that the first clamping jaw is only coupled to the base in the region of a first side wall and/or that the second clamping jaw is only coupled to the base in the region of a second side wall. This measure can achieve the effect that the first clamping jaw and the second clamping jaw can more easily be clamped in relation to one another by means of the eccentric clamp.

[0016] It may additionally be provided that the abutment is kept at an abutment distance from a weapon median plane, and the pivot axis is kept at a clamping-lever mount distance from the weapon median plane, wherein the abutment distance extends into a first side of the weapon median plane and the clamping-lever mount distance extends into a second side of the weapon median plane, in particular

that the abutment is formed on an abutment component, wherein the abutment component is fastened on the second clamping jaw, or

that the abutment is formed on a cover plate, wherein the cover plate is formed as one part with the second clamping jaw. This has the advantage that this measure allows the clamping device to be of a simple construction and also to produce its effect efficiently.

[0017] It may also be provided that the abutment is kept at an abutment distance from a weapon median plane, and the pivot axis is kept at a clamping-lever mount distance from the weapon median plane, or the pivot axis lies in the weapon median plane, wherein the abutment distance extends into a first side of the weapon median plane and the clamping-lever mount distance likewise extends into a first side of the weapon median plane, but the clamping-lever mount distance is less than the abutment distance.

[0018] The embodiment with an abutment component has the advantage that it can be easily produced. It may be provided in particular that the abutment component is fastened on an underside of the second clamping jaw and the first clamping jaw protrudes downwards.

[0019] The embodiment with the cover plate has the advantage that such a construction can be easily produced and in addition can be mechanically robust. It may be provided in particular that a clamping device formed in such a way takes the form of a cast part, which can be worked by machining.

[0020] It may be provided in particular that the cover plate is formed on an underside of the second clamping jaw and the first clamping jaw protrudes downwards.

[0021] It may be provided in particular that a butting block on which the abutment is formed is mounted in the cover plate. It may be provided in particular that the butting block is formed by a hardened component.

[0022] Also advantageous is a specific embodiment according to which it may be provided that on the second clamping jaw a first abutment fastening is formed on a first longitudinal side of the clearance and, at a distance therefrom in the axial direction of the barrel bore axis, a second abutment fastening is formed on a second longitudinal side of the clearance, wherein the abutment component is coupled to the first abutment fastening and to the second abutment fastening, wherein the abutment component spans the clearance. Particularly this measure allows a simple realization of the abutment to be achieved.

[0023] According to a development, it is possible that the first abutment fastening takes the form of a first bolt and the second abutment fastening takes the form of a second bolt, wherein the first bolt and the second bolt are mounted on the second clamping jaw, wherein the abutment component has a first hole for receiving the first bolt and a second hole for receiving the second bolt. Particularly an abutment fastening constructed in such a way can be of a simple construction. Consequently, the abutment can be easily installed and easily uninstalled again.

[0024] It may also be provided that a first securing ring is arranged on the first bolt and that a second securing ring is arranged on the second bolt, wherein the first securing ring and the second securing ring serve for securing the abutment component. This has the advantage that the abutment component can be easily and reliably fastened on the second clamping jaw.

[0025] It may also be provided that the abutment component has first material properties and the first clamping jaw and/or the second clamping jaw has second material properties, wherein the first material properties are different from the second material properties. It may be provided here that the abutment component is hardened, in particular that the abutment has a higher hardness than the second clamping jaw. It may also be provided that the abutment has a higher modulus of elasticity than the second clamping jaw.

[0026] It may also be expedient if the pivot axis is arranged vertically, in particular that the clamping lever mount is arranged on an underside of the clamping device. This has the advantage that the clamping lever can be moved between its clamping position and its releasing position by lateral pulling. This is particularly ergonomic, and the clamping lever

can consequently be easily operated by a user.

[0027] In an alternative embodiment variant, it is also conceivable that the pivot axis is arranged horizontally. In the case of this embodiment variant, the first clamping jaw and the second clamping jaw may be arranged vertically one above the other, and the clamping may take place in a vertical direction.

[0028] It may be provided in particular that the clamping lever has a longitudinal extent, wherein the clamping lever in the clamping position is aligned parallel to the barrel bore axis. When transferring the clamping lever into the releasing position, the clamping lever can be pivoted out of its clamping position into its releasing position by means of a user exerting lateral pulling.

[0029] It may additionally be provided that the first clamping jaw is delimited by a first outer delimiting plane and the second clamping jaw is delimited by a second outer delimiting plane, wherein the pivot axis is arranged within the first outer delimiting plane and the second outer delimiting plane. This has the advantage that the clamping device can be of a particularly space-saving construction and in addition, with a clamping lever in the clamping position, it can be achieved that no components project laterally with respect to the eccentric clamp, in particular with respect to the first clamping jaw and the second clamping jaw.

[0030] The first outer delimiting plane and the second outer delimiting plane may be formed by external surfaces of the clamping device.

[0031] It may also be provided that the first outer delimiting plane and the second outer delimiting plane are aligned vertically.

[0032] It may also be provided that a receiver, in particular an upper receiver is formed, wherein the clamping device is fastened on the upper receiver by means of fastening means. This measure allows easy connection between the upper receiver and the clamping device to be achieved.

[0033] According to a particular specific embodiment, it is possible that the first clamping jaw and the second clamping jaw are formed as components that are structurally independent of one another and that the upper receiver is of a U-shaped form and, when viewed in cross section, has a first leg and a second leg and an upper-receiver base connecting the first leg and the second leg, wherein the first clamping jaw is fastened on the first leg and the second clamping jaw is fastened on the second leg. This has the advantage that this measure allows the first clamping jaw and the second clamping jaw to be easily clamped in relation to one another. In particular, this may involve the upper receiver being elastically deformed, while the deformation of the upper receiver or the elasticity of the upper receiver can at the same time be used for returning the two clamping jaws.

[0034] In an alternative embodiment variant, it may also be provided that the receiver at least partially takes the form of a hollow profile and is consequently of an O-shaped form. In the case of such an embodiment variant, the receiver would not be assembled from an upper receiver and a lower receiver but would be formed as one part.

[0035] According to an advantageous development, it may be provided that a barrel extension is formed, wherein a barrel mount, which serves for the mounting of the first barrel end of the barrel, is formed in the barrel extension and wherein the barrel is coupled to the barrel extension and wherein the first clamping jaw and the second clamping jaw of the clamping device act on the barrel extension. This has the advantage that the barrel and the barrel extension can together form necessary shaped elements or hollow spaces. As a result, the components can be produced in a less complex production process than when the shaped elements and/or hollow spaces are formed directly in the barrel.

[0036] In the case of such an embodiment variant, the barrel is not directly clamped by the clamping device, but the barrel extension in which the barrel is mounted is clamped. It may be provided here in particular that the barrel is inserted in the barrel extension by a form-fitting connection.

[0037] In an alternative embodiment variant, it is also conceivable that the barrel has the structural features of the barrel extension. The barrel and the barrel extension can consequently be formed as one part, as integral components. In the case of such an embodiment variant, the first clamping jaw and the second clamping jaw can act directly on the barrel.

[0038] As an alternative to the barrel extension embodiment, it may be provided that the barrel is mounted directly in the clamping device, or is held by it.

[0039] It may be advantageous in particular if a first prism guide is formed on a first side of the barrel extension and a second prism guide is formed on a second side of the barrel extension, wherein a first counter guide, corresponding to the first prism guide, is formed on the first clamping jaw and wherein a second counter guide, corresponding to the second prism guide, is formed on the second clamping jaw. This measure allows the barrel extension and/or the barrel to be mounted exactly in position in the clamping device. In particular, this measure can achieve the effect that the barrel or the barrel together with the barrel extension can be pushed into the clamping device in the direction of longitudinal extent of the barrel bore axis.

[0040] It may also be provided that the barrel extension has a barrel extension slit running in the longitudinal extent of the barrel bore axis, wherein the barrel extension is deformable, so that the barrel mount can be pressed in a radial direction against the first barrel end. This has the advantage that this measure allows the forces of the first clamping jaw and the second clamping jaw that are applied by the clamping device to the barrel extension to be transmitted to the barrel mount as a result of a deformation of the barrel extension made possible thereby. Consequently, the barrel

can be clamped in the barrel mount of the barrel extension not only with a form fit but also with a force fit. This measure allows improved accuracy of the firearm and/or a reduction in the dispersion to be achieved.

[0041] It may be provided in particular that the weapon median plane is formed in the middle of the barrel extension slit.

[0042] It may be additionally provided that a pivot bearing is formed on the clamping device, wherein the pivot bearing serves for the pivotable attachment to a receiver. This has the advantage that this measure allows the barrel to be attached directly pivotably to the receiver, whereby a great positional accuracy of the barrel assembly and the receiver can be achieved. The pivot bearing may in particular take the form of a sliding bearing. In particular, the pivot bearing may be arranged on an underside of the clamping device. It may also be provided that the pivot bearing is formed on the base of the clamping device. It may be provided in particular that the receiver is formed as a lower receiver.

[0043] Also advantageous is a specific embodiment according to which it may be provided that a handguard is formed, wherein the handguard is removably coupled to the clamping device by displacement in the axial direction of the barrel bore axis. This has the advantage that this measure allows the handguard to be easily coupled to the clamping device.

[0044] According to a development, it is possible that a securing element is arranged in the handguard, wherein the securing element is formed in such a way that the handguard can only be pushed onto the clamping device when the clamping lever is in the clamping position and that, in the assembled state of the handguard and the clamping device, the clamping lever is secured in the clamping position by means of the securing element. This has the advantage that this measure allows the risk of incorrect clamping of the barrel of the completely assembled firearm to be reduced. In addition, this measure can achieve the effect that undesirable loosening of the barrel from the clamping device when the handguard is fitted is prevented as far as possible.

[0045] It may additionally be provided that the clamping lever has a locking lug, wherein the locking lug is formed in such a way that the clamping lever with the inserted barrel and barrel extension can only be transferred into the clamping position when the barrel extension is correctly inserted in the clamping device. This has the advantage that this measure can achieve the effect that the barrel can on the one hand be additionally secured by the locking lug against being pulled out axially and on the other hand it can be ensured that the locking lever can only be transferred into the clamping position when the barrel is correctly inserted in the clamping device, that is to say when the barrel has been pushed completely into the clamping device in the axial direction.

[0046] It may also be provided that an axial stop, which serves for the axial positioning of the barrel extension in relation to the clamping device, is formed on the barrel extension. It may be provided in particular that the barrel extension butts against the clamping device in the axial direction by means of the axial stop, and is consequently positioned in relation to the barrel extension in the axial direction.

[0047] It may also be provided that in a firearm the barrel assembly is formed according to one of the specific embodiments above.

[0048] It may be provided in particular that the first clamping jaw and the second clamping jaw are separated from one another by the slit. The slit may form a constant distance between the first clamping jaw and the second clamping jaw in the longitudinal extent of the barrel bore axis. The clearance of the second clamping jaw may also be referred to as a depression. Seen in the longitudinal extent of the barrel bore axis, an elevation may be formed before the depression and after the depression. In particular, the clearance may have the effect that the second clamping jaw is shaped in a way similar to the hump of a camel. The first clamping jaw may be shaped in a way which complements the second clamping jaw, wherein the clamping lever mount may take the form of an elevation which can reach into the clearance of the second clamping jaw. In other words, it may also be said that the first clamping jaw and the second clamping jaw partially overlap. The overlapping is in this case characterized in that the first clamping jaw and the second clamping jaw are separated from one another by the slit, wherein, seen over the longitudinal extent of the barrel bore axis, the position of the slit is displaced transversely to the barrel bore axis. This specific embodiment can be seen well in Fig. 10.

[0049] In the case of a one-part clamping device with clamping jaws rigidly connected to one another, clamping or displacing of the first clamping jaw and the second clamping jaw in relation to one another can be achieved as a result of the elasticity of the material of the clamping device.

[0050] If the first clamping jaw and the second clamping jaw do not have any direct rigid connection to one another, but are formed as independent components which are arranged on the upper receiver part, the elasticity of the material of the upper receiver part can be used for the clamping and/or displacing of the first clamping jaw and the second clamping jaw in relation to one another.

[0051] The deformation of components within the limits of their elasticity can be used here to achieve a spring-elastic recovery of the first clamping jaw and the second clamping jaw, so that, when there is an opening of the eccentric clamp, the first clamping jaw and the second clamping jaw are moved away from one another.

[0052] In the following, the terms left, right, above, below, front/forward and rear/rearward always refer to the view of the shooter in the firing direction of the firearm when the firearm is held ready to fire. The firearm may have a weapon median plane, passing through the barrel bore axis and oriented vertically. It may be provided in particular that the weapon median plane forms a plane of symmetry for at least parts of the firearm. As already stated above, in the description and the claims the terms "front/forward", "rear/rearward", "above", "below", "vertical/vertically" and so on are

used in the common form and with reference to the subject matter in the position of use, in which the axis of the barrel is aligned horizontally and the weapon median plane is aligned vertically. That is to say that, in the case of the firearm, the muzzle of the barrel is at the "front", that the breech block or slide is moved to the "rear" by the explosion gases, etc. Transverse to a direction means substantially a direction turned by 90° thereto.

[0053] For a better understanding of the invention, it is explained in more detail with reference to the following figures.

[0054] They respectively show in a greatly simplified, schematic representation:

Fig. 1 a side view of a firearm represented in a greatly simplified form;

Fig. 2 an exploded representation of a side view of a firearm represented in a greatly simplified form;

Fig. 3 a first exemplary embodiment of a barrel assembly in a perspective view;

Fig. 4 the first exemplary embodiment of the barrel assembly in a perspective view with a not-depicted handguard and a not-depicted upper receiver and a clamping lever in a clamping position;

Fig. 5 the first exemplary embodiment of the barrel assembly in a perspective view with a not-depicted handguard and a not-depicted upper receiver and the clamping lever in a releasing position;

Fig. 6 the first exemplary embodiment of the barrel assembly in a perspective exploded representation;

Fig. 7 the first exemplary embodiment of the barrel assembly in a further perspective view with a depicted securing element;

Fig. 8 a cross-sectional representation of the first exemplary embodiment of the barrel assembly;

Fig. 9 a second exemplary embodiment of the barrel assembly in a perspective view with a not-depicted handguard and a not-depicted upper receiver;

Fig. 10 the second exemplary embodiment of the barrel assembly in a perspective exploded representation;

Fig. 11 a cross-sectional representation of the second exemplary embodiment of the barrel assembly.

[0055] As an introduction, it should be noted that in the differently described embodiments the same parts are provided with the same reference numerals or the same component designations, it being possible for the disclosures contained throughout the description to be applied analogously to the same parts with the same reference numerals or the same component designations.

[0056] Various embodiments of firearms of the type in question are known. In this respect, reference is made to the applications EP3800434A1 and EP4038336A1, the content of which is hereby incorporated in this application.

[0057] Fig. 1 shows in a side view a greatly simplified first exemplary embodiment of a firearm 1. To present a clear overview of the individual components of the firearm 1, in the representation according to Fig. 2 it is shown in an exploded view. The description of the general construction of the firearm 1 is based on joint consideration of Figs. 1 and 2.

[0058] The firearm 1 comprises a barrel assembly 2. The barrel assembly 2 comprises a barrel 3. The barrel 3 extends along a barrel bore axis 4 between a first barrel end 5 and a second barrel end 6. It may be provided in particular that a muzzle 7 of the barrel 3 is arranged at the second barrel end 6.

[0059] It may also be provided that the firearm 1 has a receiver or receiver part. The receiver may for example comprise an upper receiver 8 and/or a lower receiver 9.

[0060] The present invention is described by way of example on the basis of a receiver with an upper receiver 8 and a lower receiver 9. However, the barrel assembly 2 according to the invention is not restricted to this embodiment with a separate upper receiver 8 and lower receiver 9, but may for example also be formed on a one-part receiver. In a further alternative, the barrel assembly may be formed on another receiver part.

[0061] The upper receiver 8 may be coupled to the barrel 3. It may also be provided that the firearm 1 has a lower receiver 9. It may be provided in particular that the barrel assembly 2 is pivotably or removably coupled to the lower receiver 9 by means of a swivel joint.

[0062] It may also be provided that a handguard 10, which may be coupled to the receiver, is formed. It may additionally be provided that a clamping slide unit 11, which is coupled to the upper receiver 8 or to the barrel 3, is formed. It may additionally be provided that a breech block unit 12, which is coupled to the lower receiver 9, is formed. It may also be provided that a grip 14 is formed on the lower receiver 9. It may additionally be provided that a magazine 13, which can

be incorporated in the lower receiver 9, is formed. It may also be provided that a buttstock 15, which is coupled to the lower receiver 9, is formed. It may be provided in particular that a trigger unit 16 is formed in the lower receiver 9.

[0063] Fig. 3 shows a first exemplary embodiment of a barrel assembly 2 in a perspective view.

[0064] As can be seen from Fig. 3, it may be provided that the barrel assembly 2 comprises the barrel 3. It may also be provided that the barrel 3 is coupled to the handguard 10. The handguard 10 may be coupled to the upper receiver 8. It may also be provided that the barrel assembly 2 comprises a clamping device 17, which serves for the mounting of the barrel 3. It may additionally be provided that a pivot bearing 18, which serves for the pivotable attachment of the barrel assembly 2 to the lower receiver 9, is formed on the clamping device 17.

[0065] It may be provided in particular that the barrel assembly 2 is attached to the lower receiver 9 by means of a turning bolt that is not shown. It may also be provided that the turning bolt is removable, whereby the barrel assembly 2 can be removed from the lower receiver 9.

[0066] In Figures 4 and 5, the first exemplary embodiment of the barrel assembly 2 is shown in the same view as in Fig. 3, with the same reference numerals or component designations as in the preceding Figures 1 to 3 being used again for the same parts. In Fig. 6, the barrel assembly 2 is shown in an exploded view. In order to avoid unnecessary repetitions, reference is made to the detailed description in the preceding Figures 1 to 3. For the sake of clarity, the handguard 10 and the upper receiver 8 are not shown in Figures 4 and 5. In Figures 4 and 5, the clamping device 17 is shown in two different positions.

[0067] As can be seen from Fig. 4, it may be provided that the clamping device 17 has a first clamping jaw 19 and a second clamping jaw 20. It may be provided in particular that the first clamping jaw 19 is arranged on a first side of the barrel 3, in particular on a first side of a weapon median plane 72. It may also be provided that the second clamping jaw 20 is arranged on a second side of the barrel 3, in particular on a second side of the weapon median plane 72.

[0068] It may additionally be provided that the first clamping jaw 19 and the second clamping jaw 20 can be clamped in relation to one another by means of an eccentric clamp 21. It may be provided in particular that an eccentric clamp 21 is formed for the clamping of the first clamping jaw 19 and the second clamping jaw 20. The eccentric clamp 21 may have a clamping lever 22. The clamping lever 22 may be arranged on the first clamping jaw 19 pivotably with respect to a pivot axis 23 between a clamping position 24, as shown in Fig. 4, and a releasing position 25, as shown in Fig. 5.

[0069] It may be provided in particular that the pivot axis 23 is arranged vertically. It may also be provided that a butting surface 26, which serves for the butting against an abutment 27, is arranged on the clamping lever 22.

[0070] As can also be seen from Fig. 4, it may be provided that a clearance 28, into which a clamping lever mount 29 of the first clamping jaw 19 reaches, is formed in the second clamping jaw 20. The clamping lever mount 29 may serve here for the mounting of the clamping lever 22.

[0071] It may be provided in particular that the clamping lever mount 29 of the first clamping jaw 19 reaches beyond the weapon median plane 72 into the second clamping jaw 20.

[0072] It may also be provided that a slit 50, by means of which the first clamping jaw 19 and the second clamping jaw 20 are separated from one another, is formed at least in some sections.

[0073] It may be provided in particular that a clamping lever bolt 30 is formed on the clamping lever mount 29 and that a clamping lever hole 31 is formed in the clamping lever 22. The clamping lever hole 31 may serve for the fastening of the clamping lever 22 on the clamping lever bolt 30. It may also be provided that a clamping-lever securing ring 32, which serves for securing the clamping lever 22 on the clamping lever bolt 30, is formed. Here, the clamping-lever securing ring 32 may be mounted on the clamping lever bolt 30, in particular in a groove provided for it.

[0074] It may be provided in particular that the clamping lever hole 31 is cylindrically formed and that the pivot axis 23 forms a cylinder centre axis of the clamping lever hole 31. The pivot axis 23 can consequently form at the same time the centre axis of the clamping lever bolt 30. It may be provided in particular that a loose fit is formed between the clamping lever bolt 30 and the clamping lever hole 31. The clamping lever bolt 30 and the clamping lever hole 31 can consequently form a sliding bearing. Because of small relative speeds and/or small relative movements, such a sliding bearing can also manage without sliding bearing materials and also manage without lubrication. As sliding partners, here the steel surfaces of the clamping lever bolt 30 and of the clamping lever hole 31 may slide on one another.

[0075] It may also be provided that a sliding bearing bush or a sliding bearing surface is arranged between the clamping lever bolt 30 and the clamping lever hole 31. Incorporating the clamping lever hole 31 at the clamping lever bolt 30 allows the clamping lever 22 to be arranged on the clamping lever mount 29 pivotably about the pivot axis 23.

[0076] It may also be provided that the abutment 27 is formed on a cover plate 35, wherein the cover plate 35 is formed on the second clamping jaw 20. Here, the cover plate 35 may be formed in one piece with the second clamping jaw 20. It may be provided in particular that a butting block 49, on which the abutment 27 is formed, is incorporated in the cover plate 35.

[0077] It may be provided in particular that the cover plate 35 spans the clearance 28, wherein the clamping lever mount 29 is arranged closer to the second clamping jaw 20 than the cover plate 35. This measure can achieve the effect that, when there is an increase in the distance between the pivot axis 23 and the abutment 27 as a result of turning of the clamping lever 22, the clamping lever mount 29 is drawn further into the clearance 28 of the second clamping jaw

20. As a result, the distance between the first clamping jaw 19 and the second clamping jaw 20 can be reduced, whereby the first clamping jaw 19 and the second clamping jaw 20 can be clamped in relation to one another.

[0078] As can also be seen from Fig. 4, it may be provided that the first clamping jaw 19 is delimited by a first outer delimiting plane 33 and that the second clamping jaw 20 is delimited by a second outer delimiting plane 34. The first outer delimiting plane 33 and the second outer delimiting plane 34 may be formed here by external surfaces of the clamping device. It may be provided in particular that the first outer delimiting plane 33 and the second outer delimiting plane 34 are formed by the surfaces that serve for the mounting of the upper receiver 8 or against which the upper receiver 8 butts.

[0079] It may also be provided that shaped elements 36, which serve for the form-fitting mounting of the upper receiver 8, are arranged on the clamping device 17. The shaped elements 36 may project with respect to the first outer delimiting plane 33 and the second outer delimiting plane 34. Threaded holes may also be formed in the region of the shaped elements 36 or between the shaped elements 36. By means of fastening means, which can be received in the threaded holes, the upper receiver 8 can consequently be fastened on the clamping device 17.

[0080] As can be seen from Fig. 4, it may be provided that the pivot axis 23 and the abutment 27 are arranged between the first outer delimiting plane 33 and the second outer delimiting plane 34. This provides a particularly space-saving construction, whereby the firearm 1 can have good functionality.

[0081] As can also be seen from Fig. 4, it may be provided that a securing element 37 is arranged on the handguard 10 not depicted in Fig. 4. The securing element 37 may be mounted or fastened in the handguard 10 for example by means of fastening means. It may be provided in particular that the securing element 37 is mounted on an inner side of the handguard 10. In the assembled state of the firearm 1, the securing element 37 can serve for securing the clamping lever 22 in the clamping position 24.

[0082] It may also be provided that the butting surface 26 is formed eccentrically in relation to the pivot axis 23. The butting of the butting surface 26 against the abutment 27 can achieve the effect that the clamping lever 22 is supported on the abutment 27.

[0083] When there is a pivoting of the clamping lever 22 from the clamping position 24 into the releasing position 25, the distance between the first clamping jaw 19 and the second clamping jaw 20 can be increased. This can be achieved by utilizing the elasticity of the clamping device 17 or of the upper receiver 8.

[0084] A pivoting of the clamping lever 22 from the releasing position 25 into the clamping position 24 allows the distance from one another of the first clamping jaw 19 and the second clamping jaw 20 to be reduced. This can be achieved by the butting surface 26 being at a differing distance from the pivot axis 23 over the pivoting angle of the clamping lever 22.

[0085] The clamping lever 22 may butt against the securing element 37, so that the clamping lever 22 is secured in its clamping position 24 against turning into its releasing position 25. The securing element 37 may additionally serve the purpose that, when the clamping lever 22 is not completely pivoted into its clamping position 24, axial pushing of the handguard 10 onto the barrel 3 is not possible. This can be achieved by the securing element 37 that is arranged in the handguard 10 butting against the clamping lever 22, and in this way blocking the pushingon.

[0086] As can also be seen from Fig. 4, it may be provided that the clamping device 17 does not act directly on the barrel 3, but that a barrel extension 38, in which the barrel 3 is mounted, is formed between the clamping device 17 and the barrel 3. It may be provided in particular that a barrel mount 39, in which the first barrel end 5 of the barrel 3 may be mounted, is formed in the barrel extension 38.

[0087] It may be provided here that barrel lugs 40, which serve for axially securing the barrel 3 in the barrel extension 38, are formed at the first barrel end 5. The barrel 3 may also be secured in the barrel extension 38 by additional securing elements.

[0088] It may be provided in particular that barrel locking lugs 41, by means of which the breech block unit 12 can be locked in an axially secured manner in the barrel extension 38, are formed in the barrel extension 38.

[0089] It may also be provided that a first prism guide 43 is formed on the first side 42 of the barrel extension 38 and that a second prism guide 45 is formed on a second side 44 of the barrel extension 38. The first prism guide 43 may correspond to a first counter guide 46 arranged in the first clamping jaw 19. The second prism guide 45 may correspond to a second counter guide 47 arranged in the second clamping jaw 20. It may be provided in particular that the first prism guide 43 and the second prism guide 45 are formed as a linear guide, by which the barrel 3 can be pushed into the barrel extension 38 in the axial direction of the barrel bore axis 4.

[0090] As can also be seen from Fig. 4, it may be provided that the barrel extension 38 has a barrel extension slit 48. The barrel extension slit 48 may be arranged on an underside of the barrel extension 38. It may be provided in particular that the barrel extension slit 48 extends over the complete longitudinal extent of the barrel extension 38, so that the barrel extension 38 can be deformed by means of the first clamping jaw 19 and the second clamping jaw 20, and consequently the barrel mount 39 of the barrel extension 38 can be pressed against the barrel 3 in order to be able to establish a frictional connection between the barrel 3 and the barrel mount 39.

[0091] In a further embodiment variant that is not shown, it may also be provided that the functionality of the barrel

extension 38 is formed directly in the barrel 3 and that the barrel extension 38 is not an independent component but is formed in one piece with the barrel 3. Consequently, the barrel locking lugs 41 may be formed directly in the barrel 3. Furthermore, the first clamping jaw 19 and the second clamping jaw 20 may lie directly against the barrel 3, so that the barrel 3 is clamped directly by the clamping device 17.

[0092] It should also be noted that the barrel assembly 2 according to the invention is not restricted to the firearm 1 described, with a barrel 3 and with a barrel extension 38 and a locked breech block, such as for example a breech with rotating bolt, but can also be readily transferred by a person skilled in the art to a firearm 1 with a different type of breech block, such as for example a blowback action, delayed blowback action, roller locking system etc., and the correspondingly designed barrel 3.

[0093] In Fig. 7, the first exemplary embodiment of the barrel assembly 2 is shown in a further perspective view, with a depicted securing element 37, with the same reference numerals or component designations as in the preceding Figures 1 to 6 being used again for the same parts. In order to avoid unnecessary repetitions, reference is made to the detailed description in the preceding Figures 1 to 6.

[0094] As can be seen particularly well from Fig. 7, it may be provided that a locking lug 51 is formed on the clamping lever 22. The locking lug 51 may be formed in such a way that the clamping lever 22 can only be transferred into the clamping position 24 when the barrel extension 38 has been pushed far enough into the clamping device 17 in the axial direction.

[0095] It may also be provided that a locking lug counterpart 52 is formed on the barrel extension 38. Here, the locking lug 51 may interact in a form-fitting manner with the locking lug counterpart 52.

[0096] Fig. 8 shows the barrel assembly 2 together with the upper receiver 8 and the handguard 10 in a sectional representation according to the sectional line VIII - VIII from Fig. 7, with the same reference numerals or component designations as in the preceding Figures 1 to 7 being used again for the same parts. In order to avoid unnecessary repetitions, reference is made to the detailed description in the preceding Figures 1 to 7.

[0097] As can be seen from Fig. 8, it may be provided that the upper receiver 8 spans the clamping device 17 in a U-shaped manner. It may be provided here in particular that the upper receiver 8 has a first leg 53, a second leg 54 and an upper-receiver base 55. The first clamping jaw 19 may be fastened on the first leg 53 of the upper receiver 8. The second clamping jaw 20 may be fastened on the second leg 54 of the upper receiver 8. It may be provided in particular that the clamping jaws 19, 20 are respectively screwed to the legs 53, 54 of the upper receiver 8 by means of fastening means in the form of screws.

[0098] As can also be seen from Fig. 8, it may be provided that the abutment 27 is arranged at an abutment distance 56 from the weapon median plane 72. It may also be provided that the pivot axis 23 is arranged at a clamping-lever mount distance 57 from the weapon median plane 72.

[0099] The abutment distance 56 and the clamping-lever mount distance 57 are measured here as a horizontal distance.

[0100] Seen in the present cross section according to Fig. 8, the pivot axis 23 may lie between the second outer delimiting plane 34 and the barrel bore axis 4. The abutment 27 may lie between the first outer delimiting plane 33 and the barrel bore axis 4.

[0101] In other words, the abutment 27 may be arranged on a first side of the weapon median plane 72 and the pivot axis 23 may be arranged on a second side of the weapon median plane 72.

[0102] In Figures 9 to 11, a further, second embodiment of the barrel assembly 2, which may be independent in itself, is shown, with the same reference numerals or component designations as in the preceding Figures 1 to 8 being used again for the same parts. In order to avoid unnecessary repetitions, reference is made to the detailed description in the preceding Figures 1 to 8.

[0103] As can be seen from Fig. 9, it may be provided that the abutment 27 is arranged on its own abutment component 58, which is coupled to the second clamping jaw 20.

[0104] It may be provided in particular that a first abutment fastening 60 is formed on a first longitudinal side 59 of the clearance 28. It may also be provided that a second abutment fastening 62 is formed on a second longitudinal side 61 of the clearance 28. The first abutment fastening 60 may comprise a first bolt 63. The second abutment fastening 62 may comprise a second bolt 64. It may also be provided that in the abutment component 58 there is formed a first hole 65 and there is formed a second hole 66. The first hole 65 may be incorporated in the first bolt 63. The second hole 66 may be incorporated in the second bolt 64. It may also be provided that a first securing ring 67, which is arranged on the first bolt 63 in a corresponding groove and serves for securing the abutment component 58, is formed. It may also be provided that a second securing ring 68, which is arranged in a groove on the second bolt 64 and serves for securing the abutment component 58, is formed.

[0105] As can be seen particularly well from Fig. 10, it may be provided that the clamping device 17 is formed as one part, wherein the first clamping jaw 19 and the second clamping jaw 20 are coupled to one another by means of a base 69. It may also be provided that the slit 50 is formed between the first clamping jaw 19 and the second clamping jaw 20. It may additionally be provided that a transverse slit 70, which extends between the first clamping jaw 19 and/or the second clamping jaw 20 and the base 69, is formed. The transverse slit 70 may adjoin the slit 50 in a T-shaped form.

[0106] It may also be provided that an axial stop 71, which serves for the axial positioning of the barrel extension 38 in relation to the clamping device 17, is formed on the barrel extension 38. It may be provided in particular that the barrel extension 38 butts against the clamping device 17 in the axial direction by means of the axial stop 71, and is consequently positioned in relation to the barrel extension 38 in the axial direction.

[0107] Fig. 11 shows the second exemplary embodiment of the barrel assembly 2 together with the upper receiver 8 and the handguard 10 in a sectional representation analogous to Fig. 8, with the same reference numerals or component designations as in the preceding Figures 1 to 10 being used again for the same parts. In order to avoid unnecessary repetitions, reference is made to the detailed description in the preceding Figures 1 to 10.

[0108] The inserting and clamping of the barrel 3 are described on the basis of joint consideration of Figures 1 to 11.

[0109] In a first step, the barrel 3 may be inserted into the barrel extension 38, if these are two different components. In one embodiment it is of course conceivable that the barrel 3 already has the features of the barrel extension 38 or that the barrel 3 and the barrel extension 38 are already connected to one another securely and acting as one part.

[0110] In a further step, the barrel 3 together with the barrel extension 38 may be pushed in between the first clamping jaw 19 and the second clamping jaw 20 of the clamping device 17, wherein the first prism guide 43 and the second prism guide 45 can serve for guiding the barrel 3 and/or the barrel extension 38. Here, the locking lever 22 is in its releasing position 25, in order to make it possible for the barrel to be inserted.

[0111] Here, the barrel 3 can be pushed into the clamping device 17 until the axial stop 71 of the barrel extension 38 butts against the clamping device 17, and consequently the axial position of the barrel 3 is defined.

[0112] For fixing the barrel 3, the clamping lever 22 may be pivoted about the pivot axis 23 from the releasing position 25 into the clamping position 24. The butting surface 26 of the clamping lever 22 thereby slides on the abutment 27. The fact that the butting surface 26 is arranged eccentrically in relation to the pivot axis 23 has the effect that a displacement of the pivot axis 23 can be achieved by the pivoting. The construction according to the invention of the first clamping jaw 19 and the second clamping jaw 20 has the effect that the first clamping jaw 19 and the second clamping jaw 20 are in this case pulled towards one another, whereby the barrel 3 and/or the barrel extension 38 are clamped between the first clamping jaw 19 and the second clamping jaw 20.

[0113] Here, the clamping lever 22 can only be pivoted when the barrel 3 and/or the barrel extension 38 are correctly positioned, so that the locking lug 51 arranged on the clamping lever 22 along with the locking lug counterpart 52 can be displaced in one another.

[0114] Subsequently, the handguard 10 can be pushed onto the firearm 1, wherein the securing element 37 in the handguard 10 can secure the clamping lever 22 in a form-fitting manner against opening.

[0115] Removal of the barrel 3 can be performed in the reverse sequence.

[0116] The exemplary embodiments show possible embodiment variants, it being noted at this stage that the invention is not restricted to the embodiment variants thereof specifically represented, but rather that various combinations of the individual embodiment variants with one another are also possible and, on the basis of the teaching for technical action provided by the present invention, this possibility of variation is within the ability of a person skilled in the art working in this technical field.

[0117] The scope of protection is determined by the claims. However, the description and the drawings should be used to interpret the claims. Individual features or combinations of features from the different exemplary embodiments shown and described can represent independent inventive solutions per se. The object on which the independent inventive solutions are based can be found in the description.

[0118] All of the indications of ranges of values in the present description should be understood as meaning that they include any and all subranges thereof; for example, the indication 1 to 10 should be understood as meaning that all of the subranges on the basis of the lower limit 1 and the upper limit 10 are included, i.e. all of the subranges begin with a lower limit of 1 or greater and end with an upper limit of 10 or less, for example 1 to 1.7, or 3.2 to 8.1, or 5.5 to 10.

[0119] For the sake of good order, it should finally be pointed out that, for better understanding of the construction, elements have sometimes been represented not to scale and/or enlarged and/or reduced in size.

List of designations

1	Firearm	30	Clamping lever bolt
2	Barrel assembly	31	Clamping lever hole
3	Barrel	32	Clamping-lever securing ring
4	Barrel bore axis	33	First outer delimiting plane
5	First barrel end	34	Second outer delimiting plane
6	Second barrel end	35	Cover plate
7	Muzzle	36	Shaped element
8	Upper receiver	37	Securing element
9	Lower receiver	38	Barrel extension

(continued)

	10	Handguard	39	Barrel mount
	11	Clamping slide unit	40	Barrel lugs
5	12	Breech block unit	41	Barrel locking lugs
	13	Magazine	42	First side of barrel extension
	14	Grip	43	First prism guide
	15	Buttstock	44	Second side of barrel extension
10	16	Trigger unit	45	Second prism guide
	17	Clamping device	46	First counter guide
	18	Pivot bearing	47	Second counter guide
	19	First clamping jaw	48	Barrel extension slit
	20	Second clamping jaw	49	Butting block
15	21	Eccentric clamp	50	Slit
	22	Clamping lever	51	Locking lug
	23	Pivot axis	52	Locking lug counterpart
	24	Clamping position	53	First leg of upper receiver
20	25	Releasing position	54	Second leg of upper receiver
	26	Butting surface	55	Upper-receiver base
	27	Abutment	56	Abutment distance
	28	Clearance	57	Clamping-lever mount distance
	29	Clamping lever mount	58	Abutment component
25	59	First longitudinal side		
	60	First abutment fastening		
	61	Second longitudinal side		
	62	Second abutment fastening		
30	63	First bolt		
	64	Second bolt		
	65	First hole		
	66	Second hole		
	67	First securing ring		
35	68	Second securing ring		
	69	Base		
	70	Transverse slit		
	71	Axial stop		
40	72	Weapon median plane		

Claims

1. Barrel assembly (2) for a firearm (1), the barrel assembly (2) comprising:

- a barrel (3) with a first barrel end (5), in the longitudinal extent of a barrel bore axis (4);
- a clamping device (17) for clamping the barrel (3), wherein the clamping device (17) has a first clamping jaw (19) and a second clamping jaw (20);
- an eccentric clamp (21) with a clamping lever (22) for clamping the first clamping jaw (19) and the second clamping jaw (20) in relation to one another, wherein the clamping lever (22) has a pivot axis (23) and a butting surface (26), wherein the butting surface (26) is formed eccentrically in relation to the pivot axis (23), wherein the clamping lever (22) is pivotable with respect to the pivot axis (23) between a clamping position (24) and a releasing position (25),

characterized in that

a clearance (28) is formed in the second clamping jaw (20), and **in that** the first clamping jaw (19) has a clamping lever mount (29), wherein the clamping lever mount (29) reaches into the clearance (28), wherein the clamping lever (22) is mounted pivotably about the pivot axis (23) on the clamping lever mount (29) of the first clamping jaw (19)

and wherein the second clamping jaw (20) has an abutment (27) for the butting of the butting surface (26), wherein the abutment (27) lies closer to the side of the second clamping jaw (20) than the pivot axis (23).

2. Barrel assembly (2) according to Claim 1, **characterized in that** the first clamping jaw (19) and the second clamping jaw (20) are at least in some sections separated from one another by a slit (50), wherein the slit (50) separates the clearance (28) and the clamping lever mount (29) from one another.

3. Barrel assembly (2) according to Claim 2, **characterized in that** the clamping device (17) has a base (69), wherein the first clamping jaw (19) and the second clamping jaw (20) are formed as one part with the base (69), wherein the slit (50) extends from the base (69) over a longitudinal extent of the first clamping jaw (19) and the second clamping jaw (20).

4. Barrel assembly (2) according to one of Claims 1 to 3, **characterized in that** the abutment (27) is kept at an abutment distance (56) from a weapon median plane (72), and the pivot axis (23) is kept at a clamping-lever mount distance (57) from the weapon median plane (72), wherein the abutment distance (56) extends into a first side of the weapon median plane (72) and the clamping-lever mount distance (57) extends into a second side of the weapon median plane (72),
in particular

- **in that** the abutment (27) is formed on an abutment component (58), wherein the abutment component (58) is fastened on the second clamping jaw (20), or

- **in that** the abutment (27) is formed on a cover plate (35), wherein the cover plate (35) is formed as one part with the second clamping jaw (20).

5. Barrel assembly (2) according to Claim 4, **characterized in that** on the second clamping jaw (20) a first abutment fastening (60) is formed on a first longitudinal side (59) of the clearance (28) and, at a distance therefrom in the axial direction of the barrel bore axis (4), a second abutment fastening (62) is formed on a second longitudinal side (61) of the clearance (28), wherein the abutment component (58) is coupled to the first abutment fastening (60) and to the second abutment fastening (62), wherein the abutment component (58) spans the clearance (28).

6. Barrel assembly (2) according to Claim 5, **characterized in that** the first abutment fastening (60) takes the form of a first bolt (63) and the second abutment fastening (62) takes the form of a second bolt (64), wherein the first bolt (63) and the second bolt (64) are mounted on the second clamping jaw (20), wherein the abutment component (58) has a first hole (65) for receiving the first bolt (63) and a second hole (66) for receiving the second bolt (64).

7. Barrel assembly (2) according to one of the preceding claims, **characterized in that** the pivot axis (23) is arranged vertically, in particular **in that** the clamping lever mount (29) is arranged on an underside of the clamping device (17).

8. Barrel assembly (2) according to one of the preceding claims, **characterized in that** the first clamping jaw (19) is delimited by a first outer delimiting plane (33) and the second clamping jaw (20) is delimited by a second outer delimiting plane (34), wherein the pivot axis (23) is arranged within the first outer delimiting plane (33) and the second outer delimiting plane (34).

9. Barrel assembly (2) according to one of the preceding claims, **characterized in that** a receiver, in particular an upper receiver (8) is formed, wherein the clamping device (17) is fastened on the receiver, in particular on the upper receiver (8), by means of fastening means.

10. Barrel assembly (2) according to Claim 9, **characterized in that** the first clamping jaw (19) and the second clamping jaw (20) are formed as components that are structurally independent of one another and **in that** the upper receiver (8) is of a U-shaped form and, seen in cross section, has a first leg (53) and a second leg (54) and an upper-receiver base (55) connecting the first leg (53) and the second leg (54), wherein the first clamping jaw (19) is fastened on the first leg (53) and the second clamping jaw (20) is fastened on the second leg (54).

11. Barrel assembly (2) according to one of the preceding claims, **characterized in that** a barrel extension (38) is formed, wherein a barrel mount (39), which serves for the mounting of the first barrel end (5) of the barrel (3), is formed in the barrel extension (38) and wherein the barrel (3) is coupled to the barrel extension (38) and wherein the first clamping jaw (19) and the second clamping jaw (20) of the clamping device (17) act on the barrel extension (38).

12. Barrel assembly (2) according to Claim 11, **characterized in that** a first prism guide (43) is formed on a first side (42) of the barrel extension (38) and a second prism guide (45) is formed on a second side (44) of the barrel extension (38), wherein a first counter guide (46), corresponding to the first prism guide (43), is formed on the first clamping jaw (19) and wherein a second counter guide (47), corresponding to the second prism guide (45), is formed on the second clamping jaw (20).

13. Barrel assembly (2) according to Claim 11 or 12, **characterized in that** the barrel extension (38) has a barrel extension slit (48) running in the longitudinal extent of the barrel bore axis (4), wherein the barrel extension (38) is deformable, so that the barrel mount (39) can be pressed in a radial direction against the first barrel end (5).

14. Barrel assembly (2) according to one of the preceding claims, **characterized in that** a pivot bearing (18) is formed on the clamping device (17), wherein the pivot bearing (18) serves for the pivotable attachment to a lower receiver (9).

15. Barrel assembly (2) according to one of the preceding claims, **characterized in that** a handguard (10) is formed, wherein the handguard (10) is removably coupled to the clamping device (17) by displacement in the axial direction of the barrel bore axis (4).

16. Barrel assembly (2) according to Claim 15, **characterized in that** a securing element (37) is arranged in the handguard (10), wherein the securing element (37) is formed in such a way that the handguard (10) can only be pushed onto the clamping device (17) when the clamping lever (22) is in the clamping position (24) and **in that**, in the assembled state of the handguard (10) and the clamping device (17), the clamping lever (22) is secured in the clamping position (24) by means of the securing element (37).

17. Barrel assembly (2) according to one of the preceding claims, **characterized in that** the clamping lever (22) has a locking lug (51), wherein the locking lug (51) is formed in such a way that the clamping lever (22) with the inserted barrel (3) and barrel extension (38) can only be transferred into the clamping position (24) when the barrel extension (38) is correctly inserted in the clamping device (17).

18. Barrel assembly (2) according to one of the preceding claims, **characterized in that** an axial stop (71), which serves for the axial positioning of the barrel extension (38) in relation to the clamping device (17), is formed on the barrel extension (38).

19. Firearm (1) comprising:

- a barrel assembly (2);
- a receiver, in particular a lower receiver (9), which is dismantlably coupled to the barrel assembly (2),

characterized in that the barrel assembly (2) is formed according to one of the preceding claims.

Fig.1

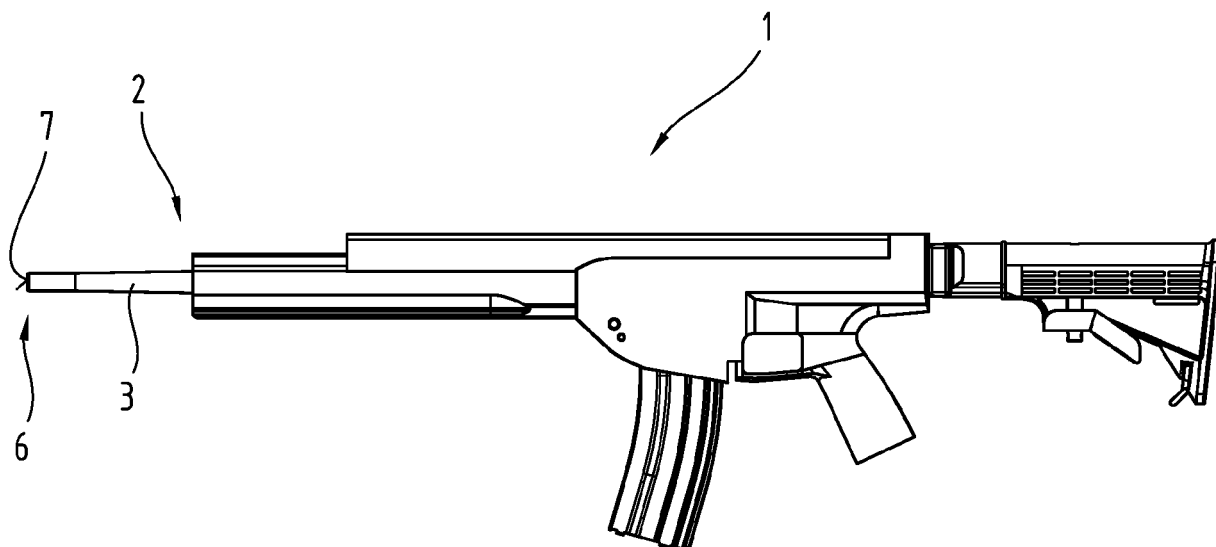
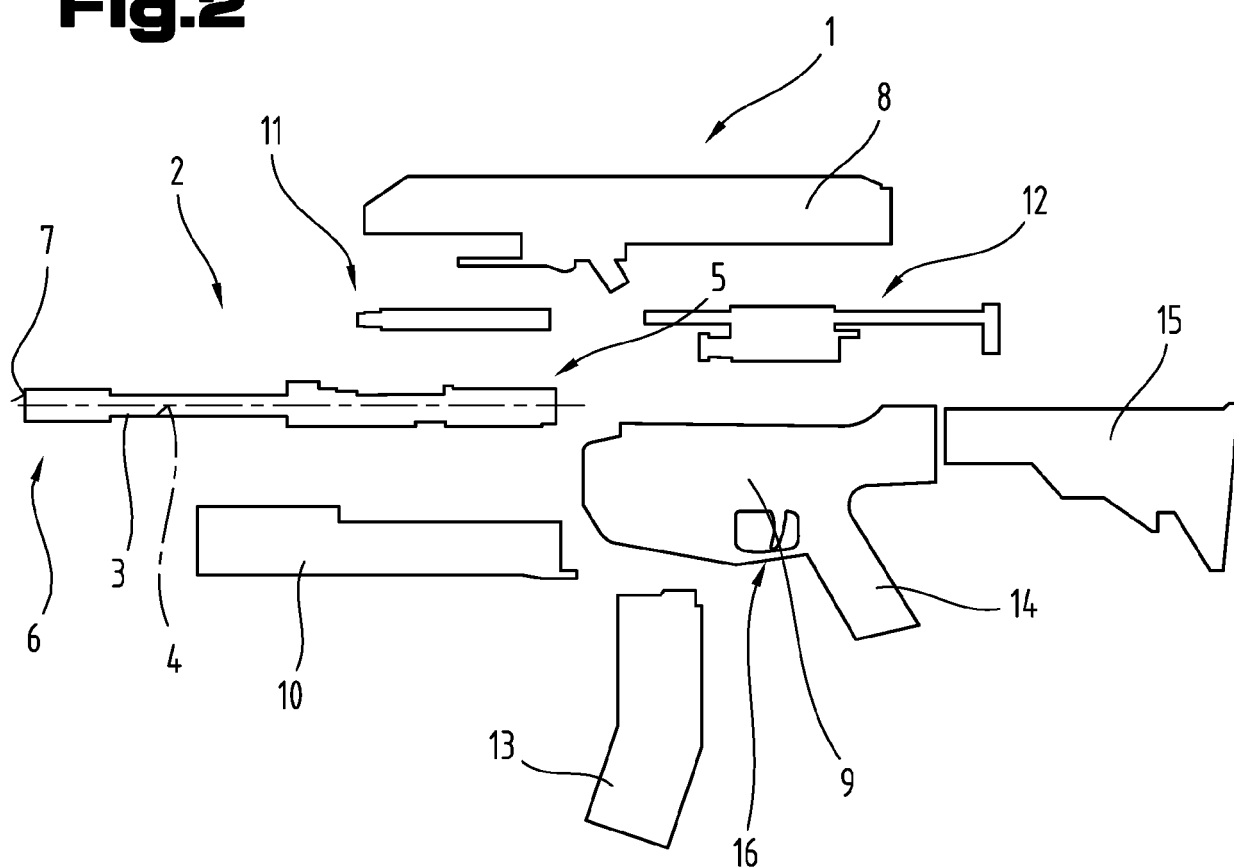
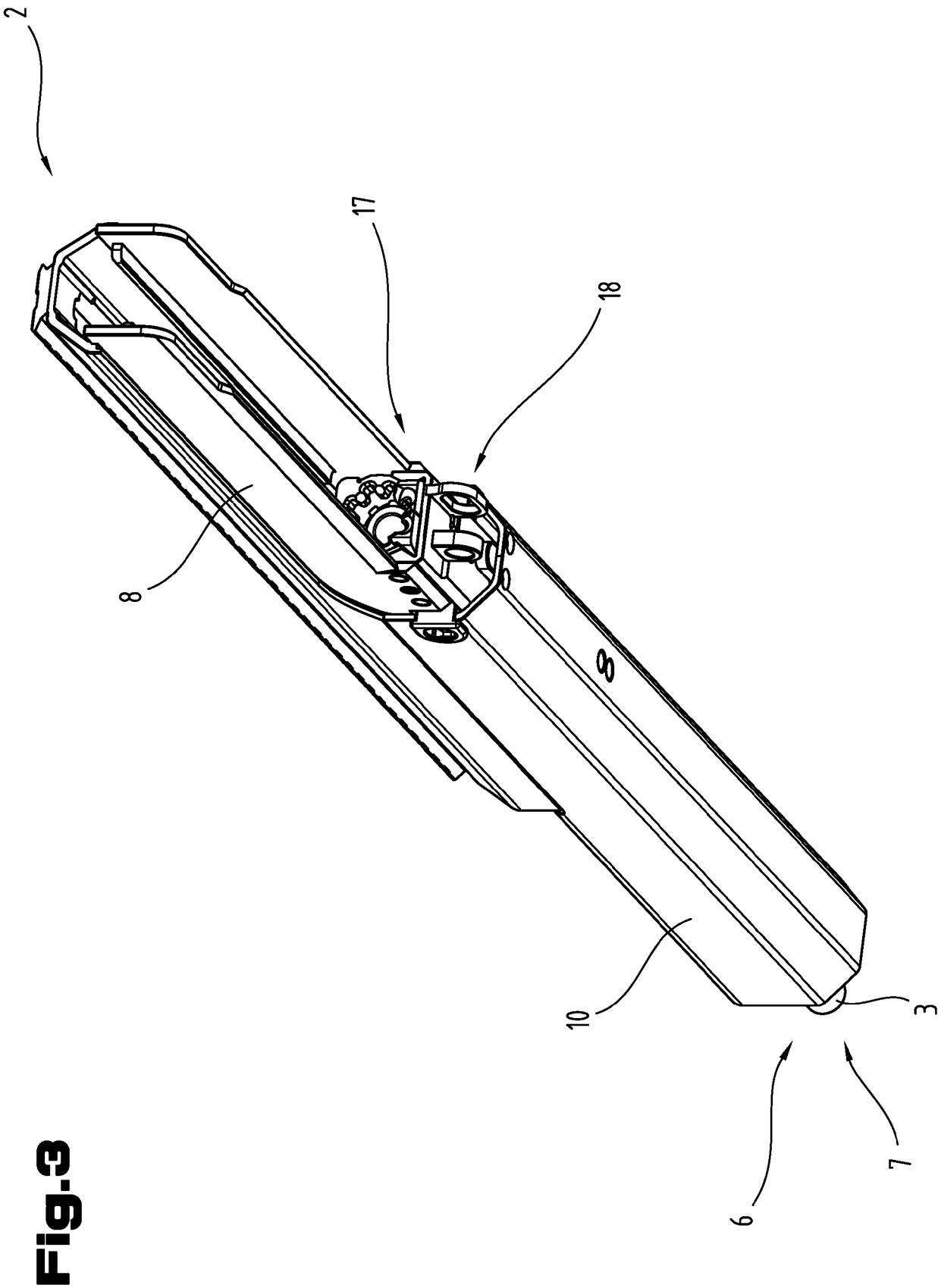


Fig.2





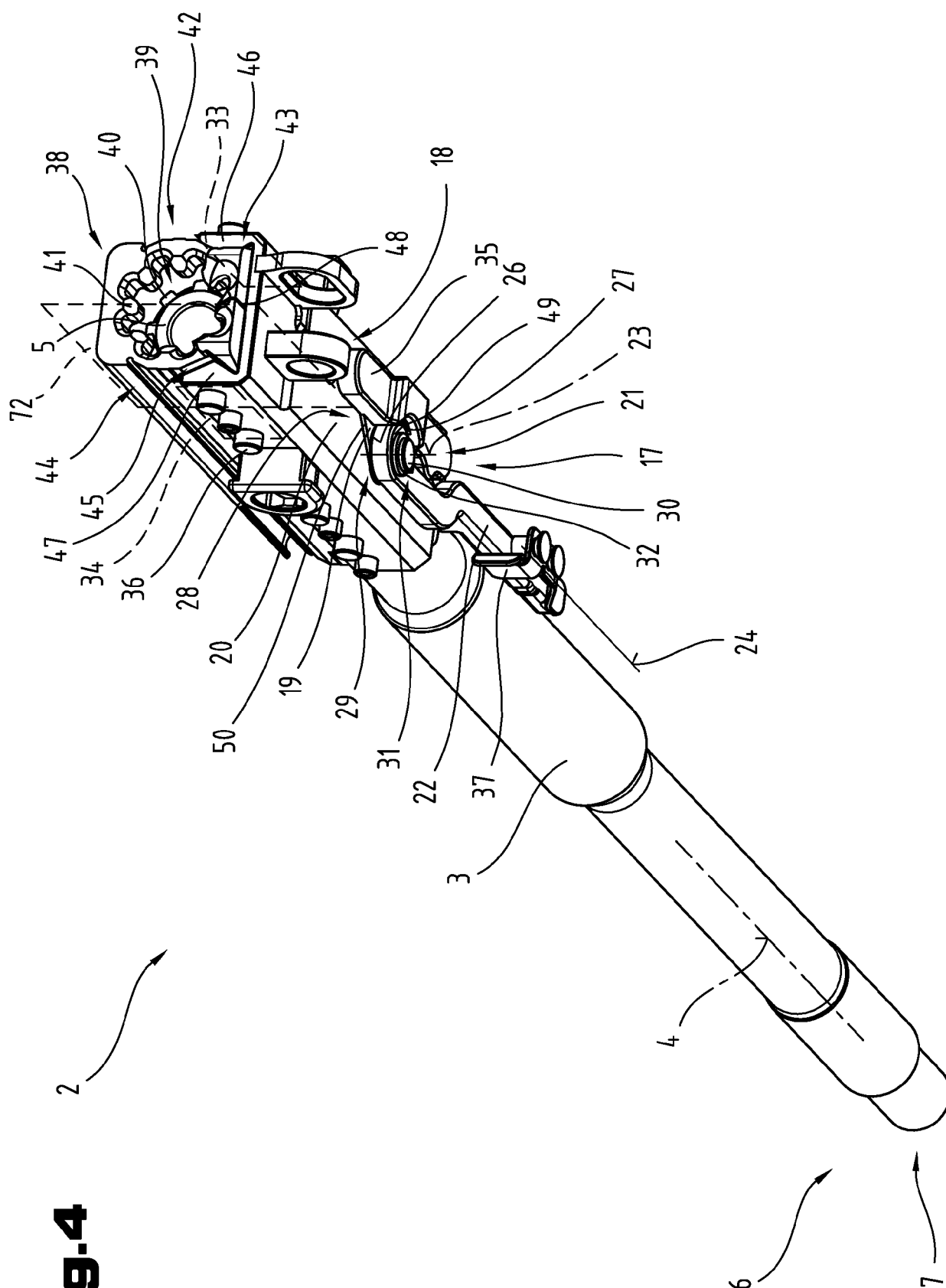
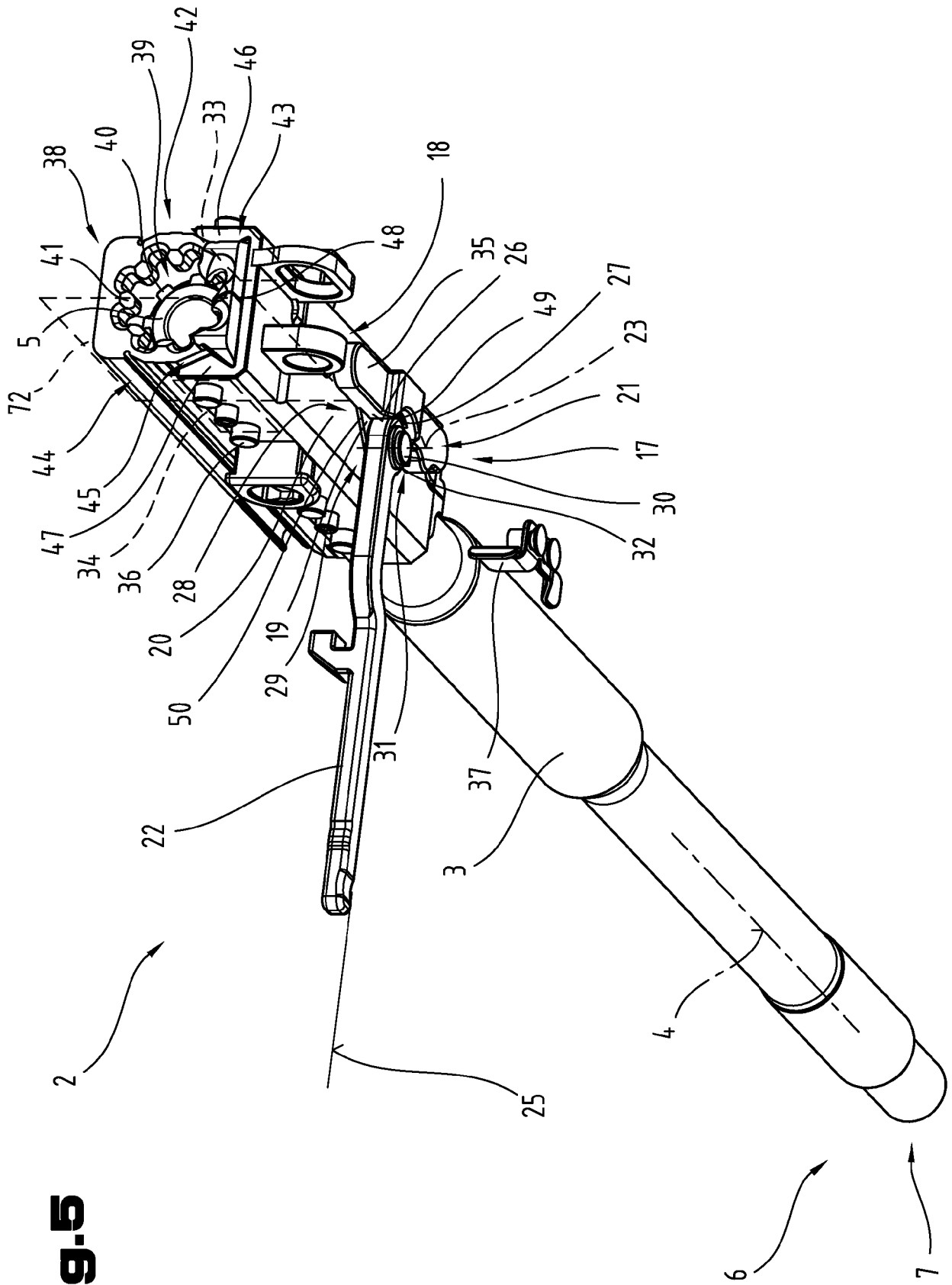


Fig. 5



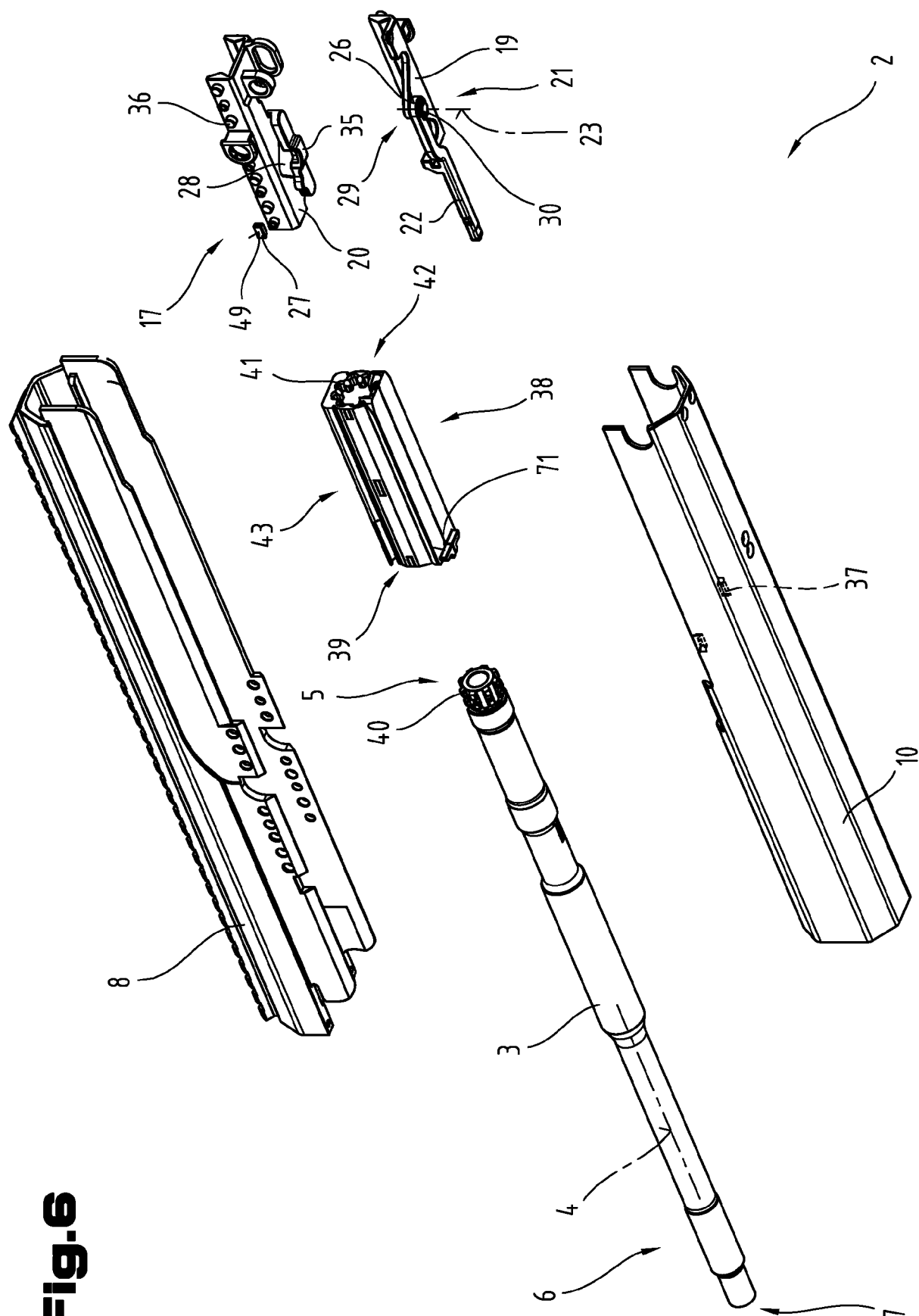


Fig.7

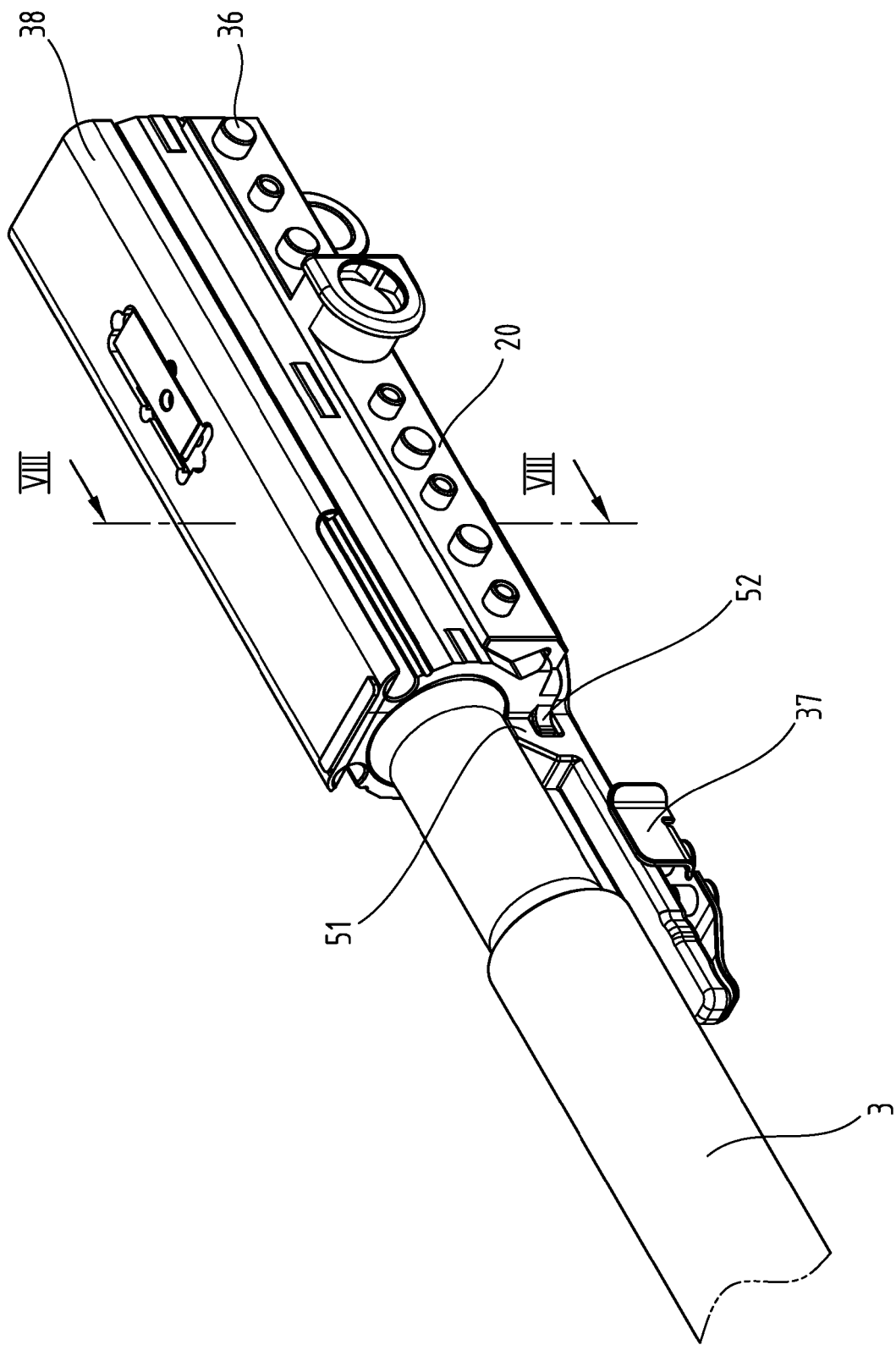


Fig.8

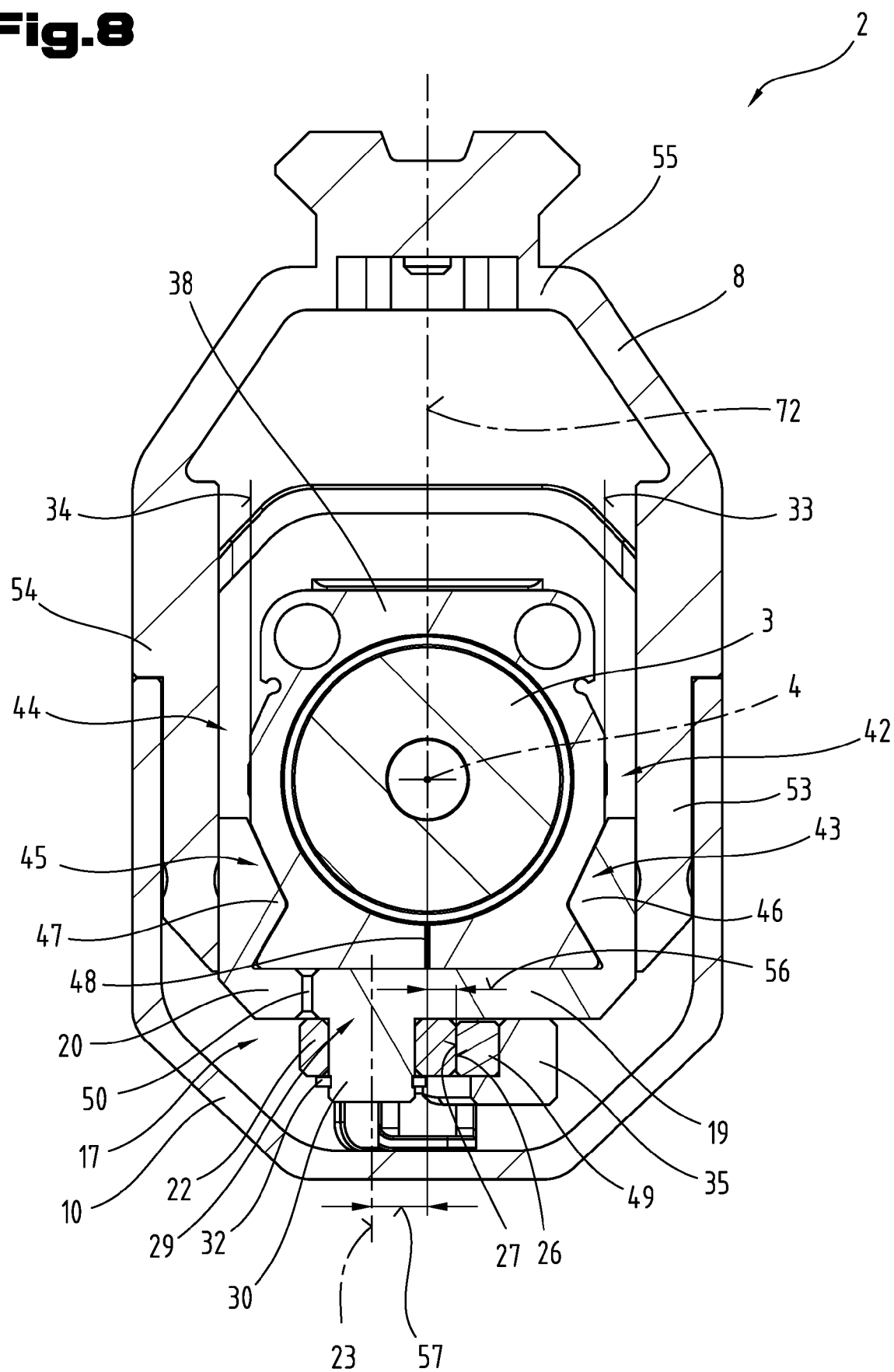
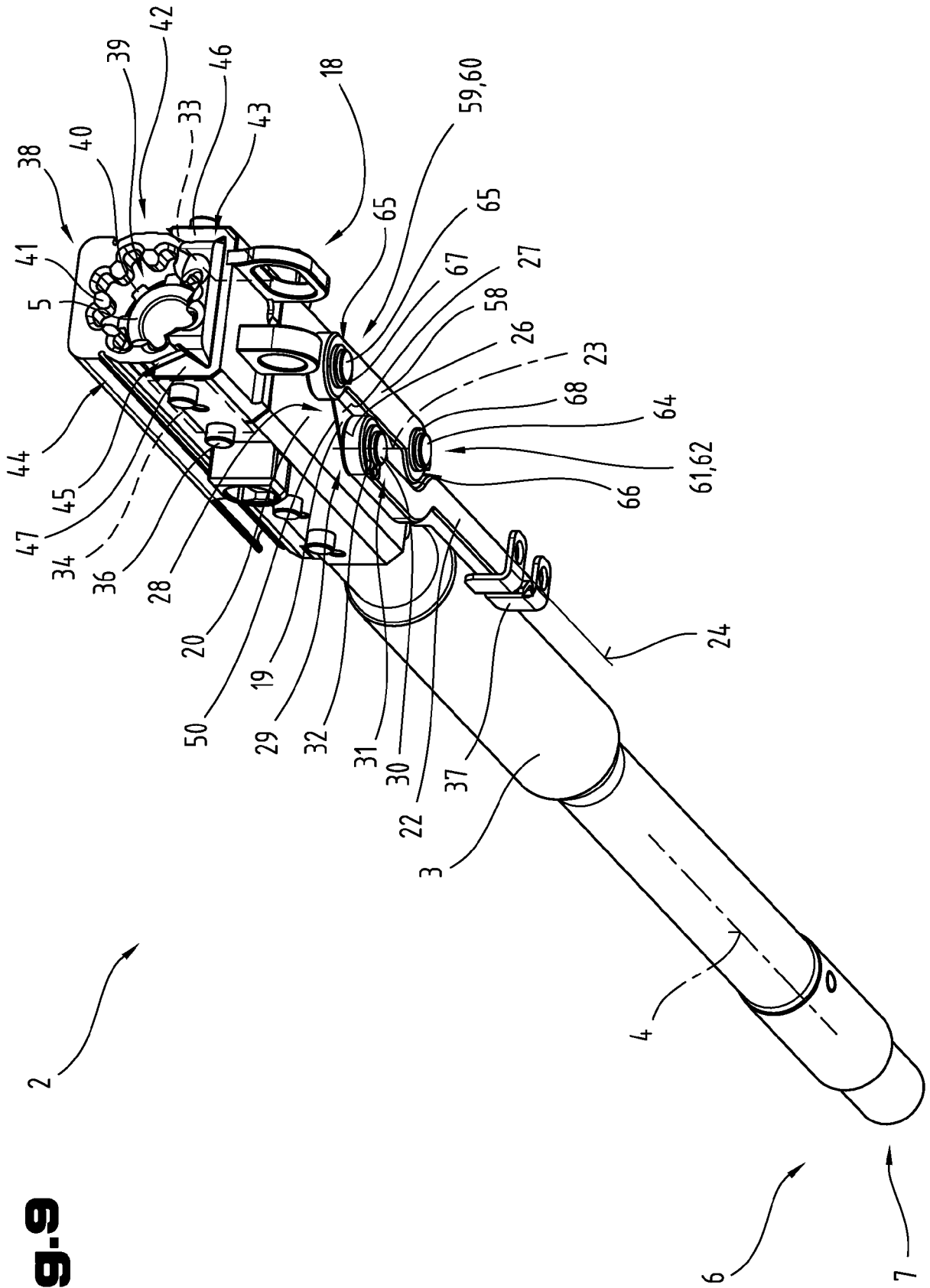


Fig.9



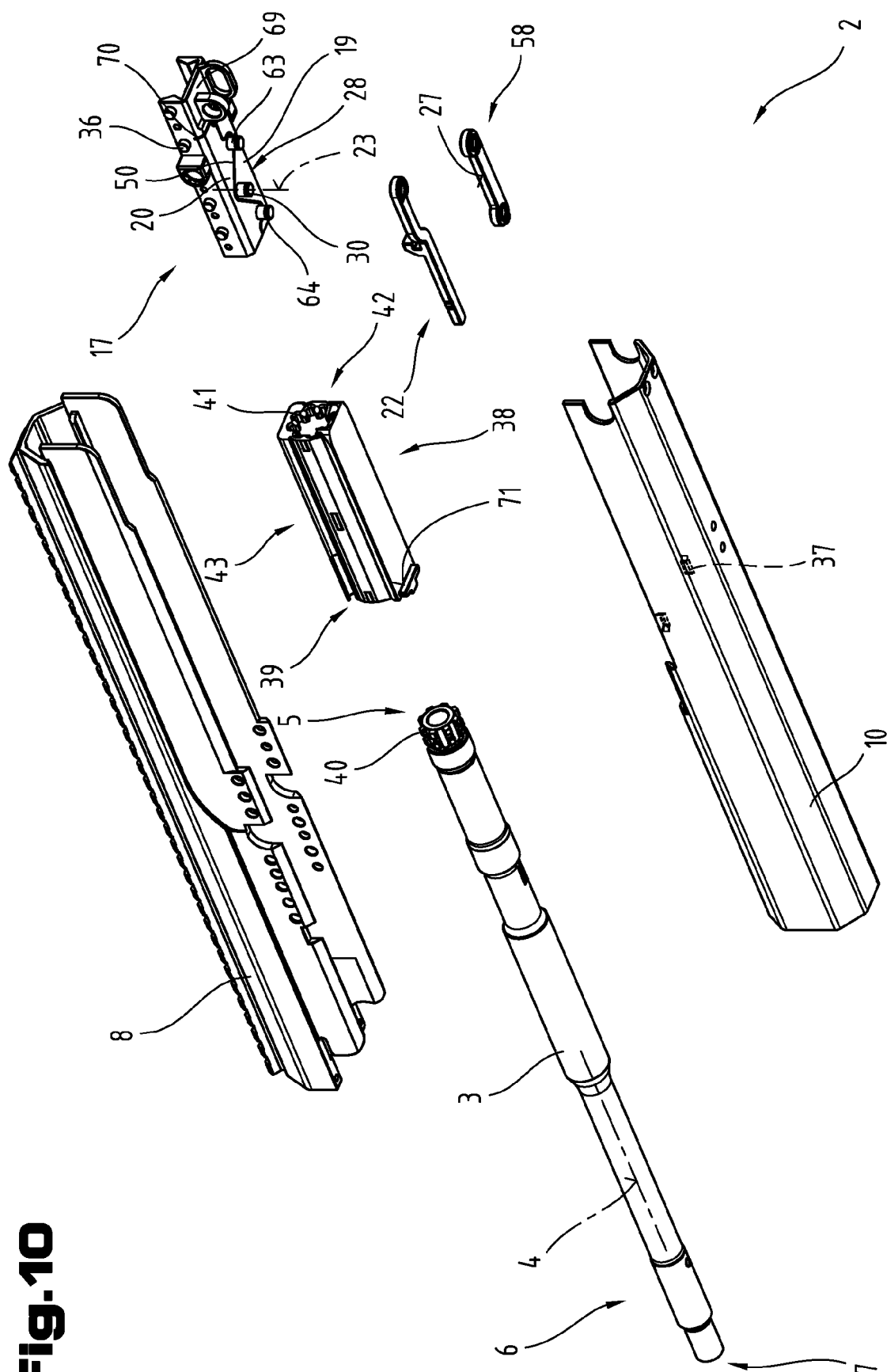
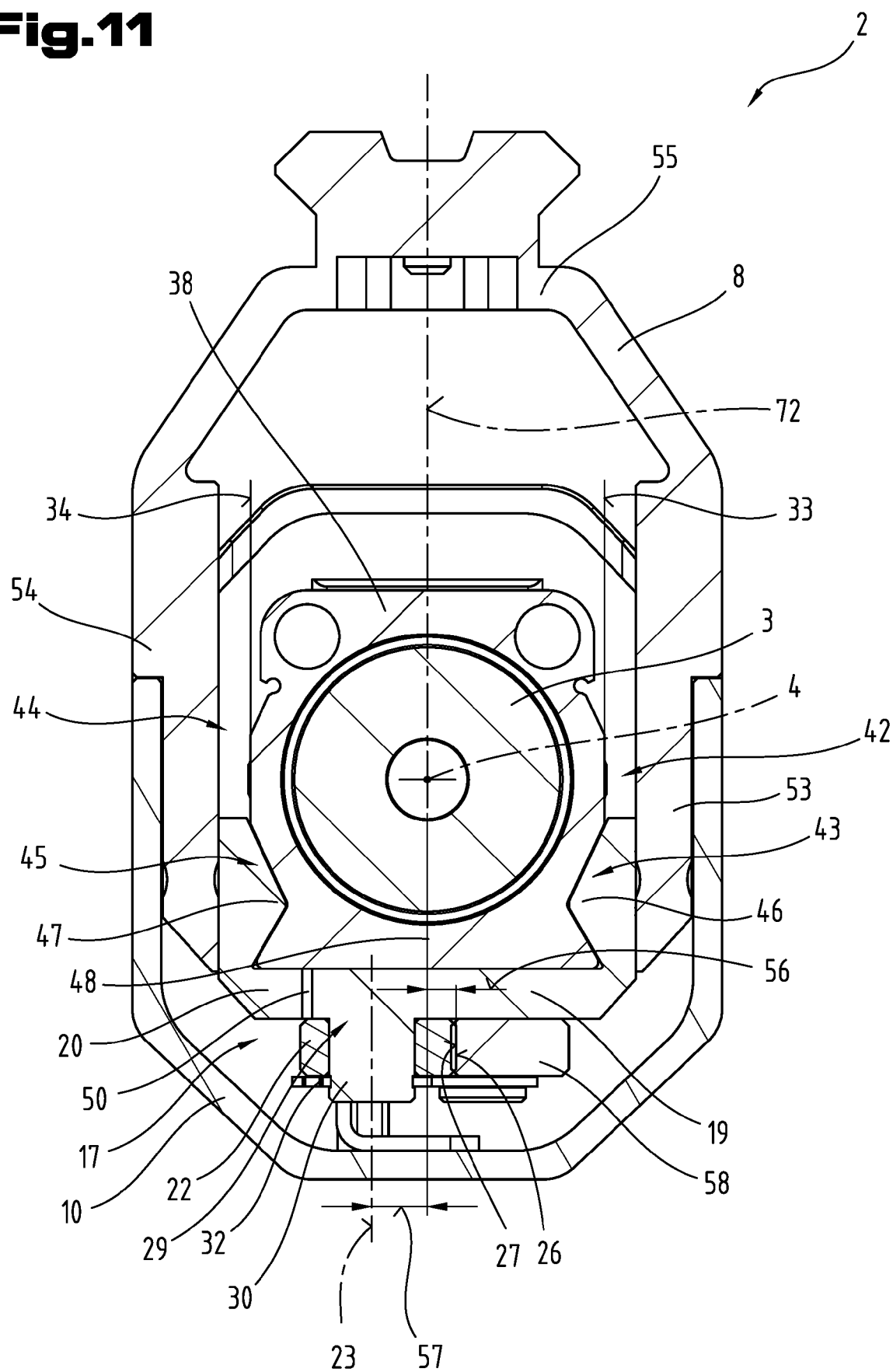


Fig. 10

Fig.11



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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 19 July 2023	Examiner Schwingel, Dirk
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