

No. 785,893.

PATENTED MAR. 28, 1905.

H. A. VON KRETSCHMAR & J. KURIG.

REAR SIGHT FOR GUNS.

APPLICATION FILED OCT. 17, 1904.

3 SHEETS—SHEET 1.

Fig. 1.

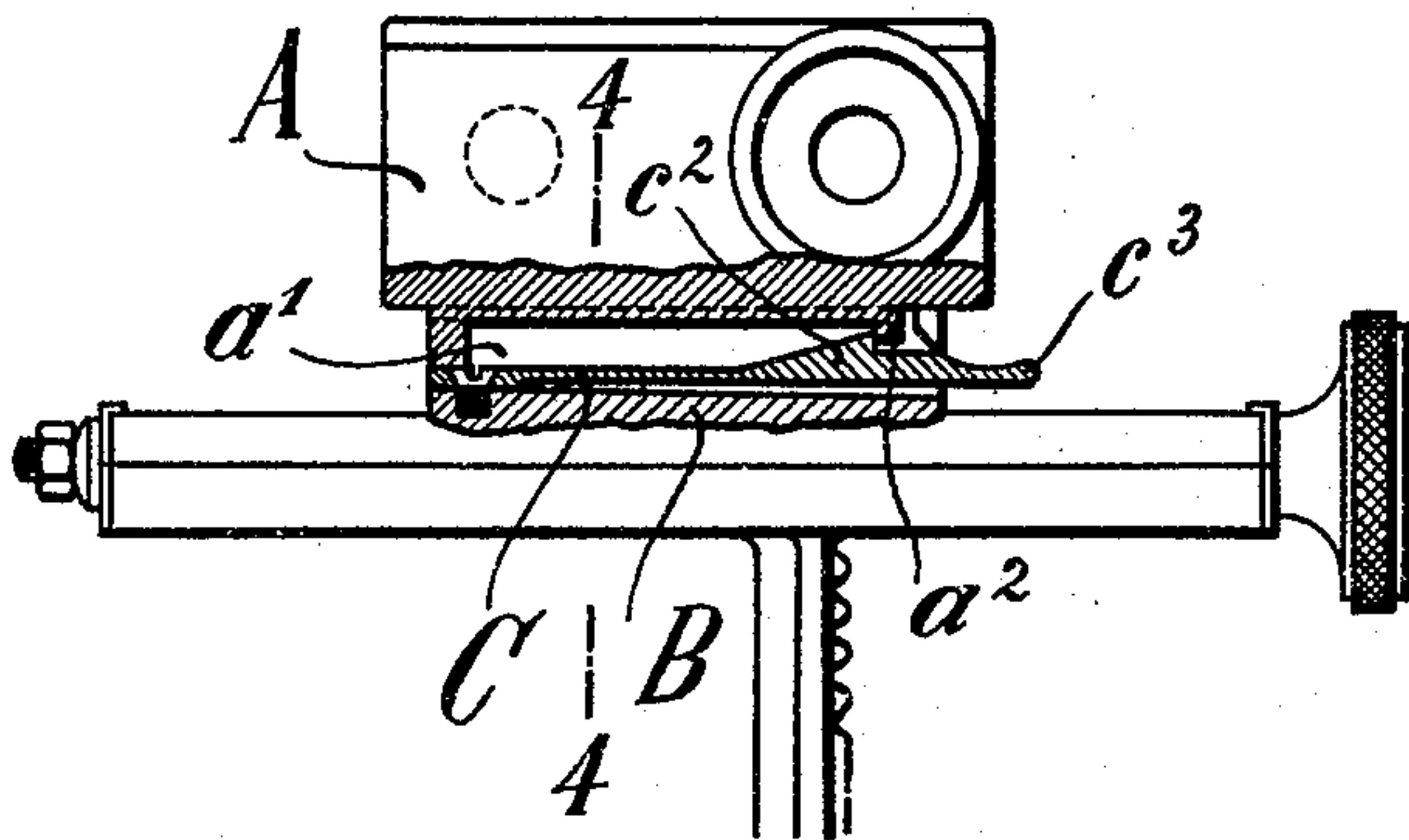


Fig. 2.

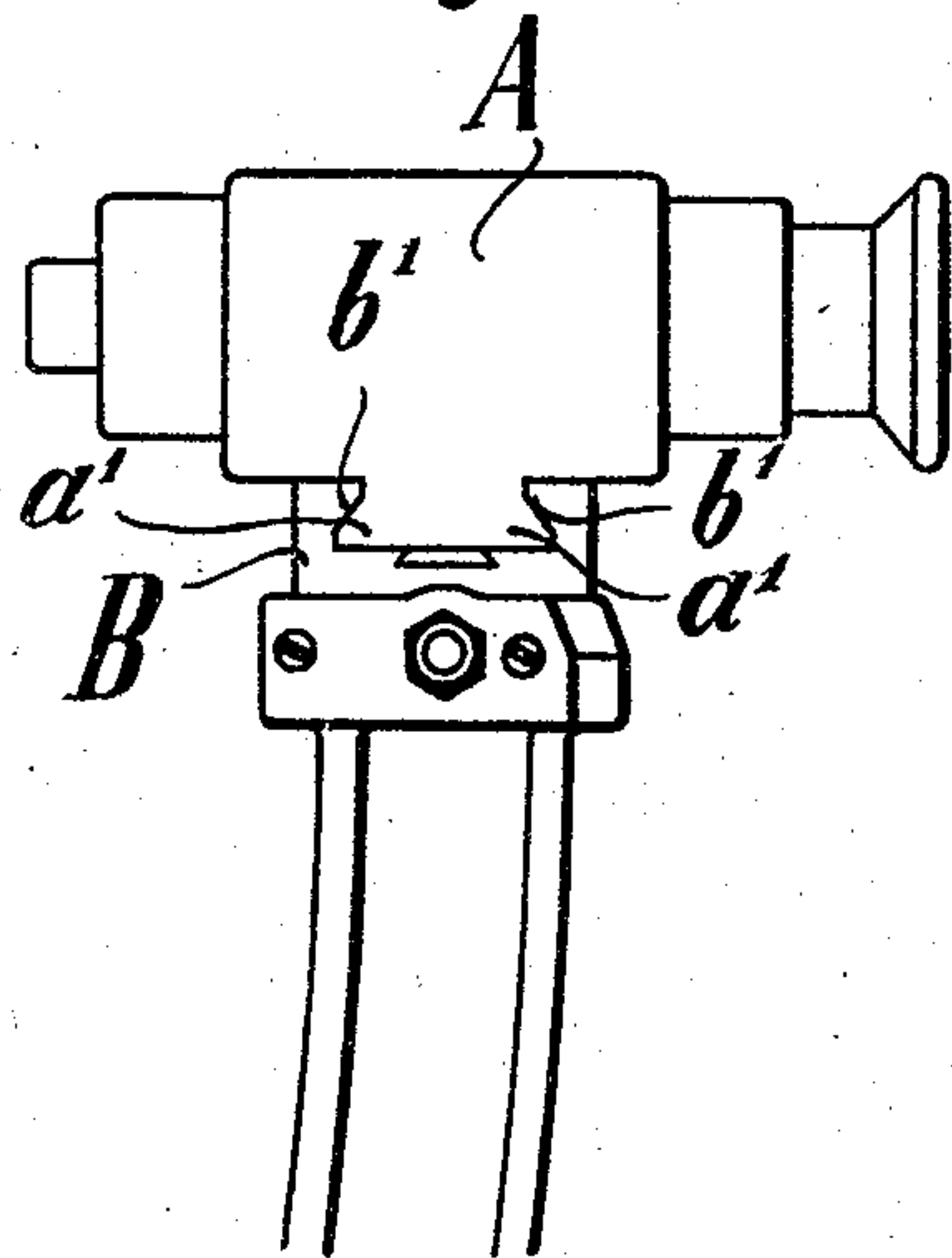


Fig. 3.

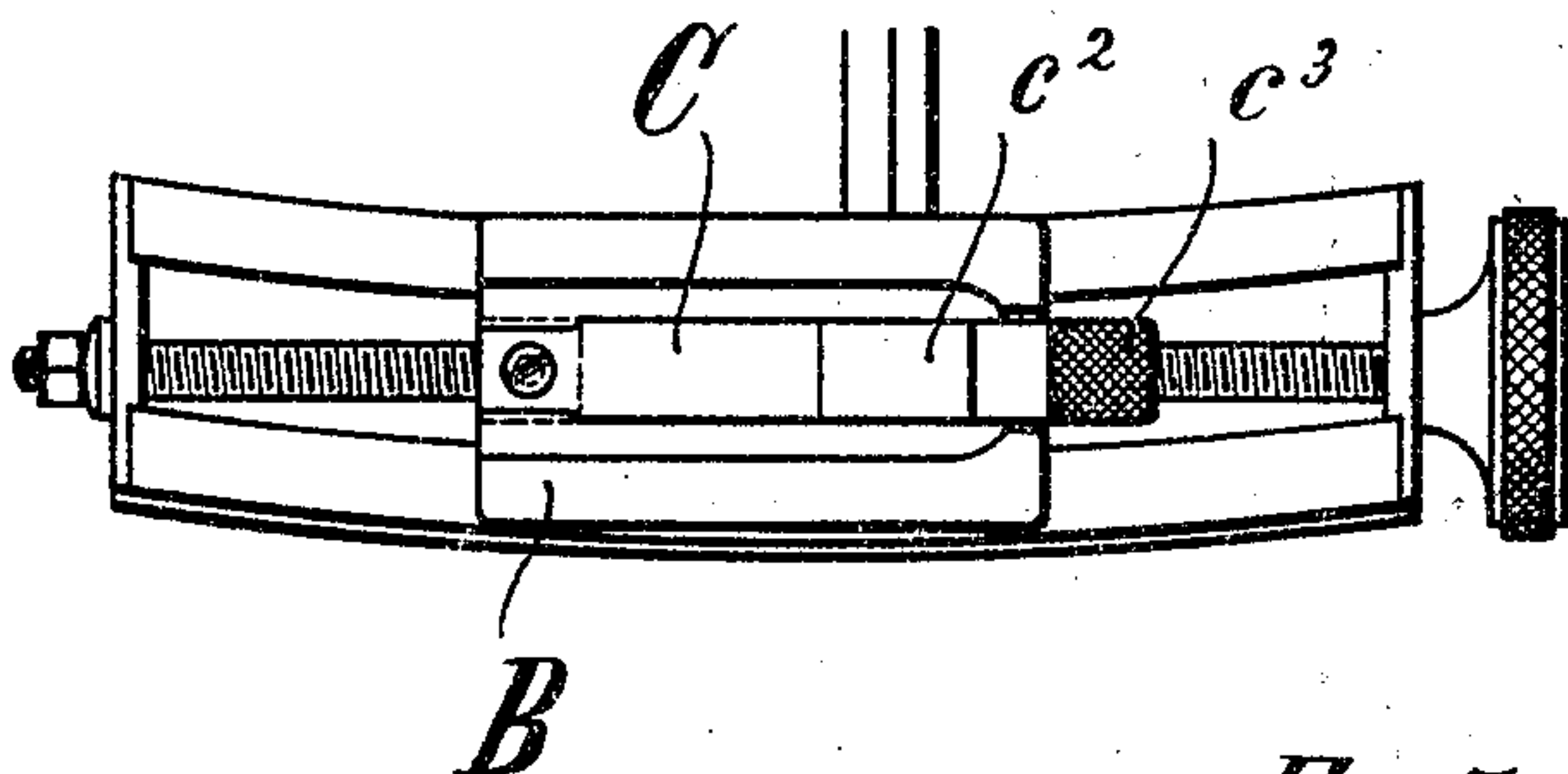


Fig. 4.

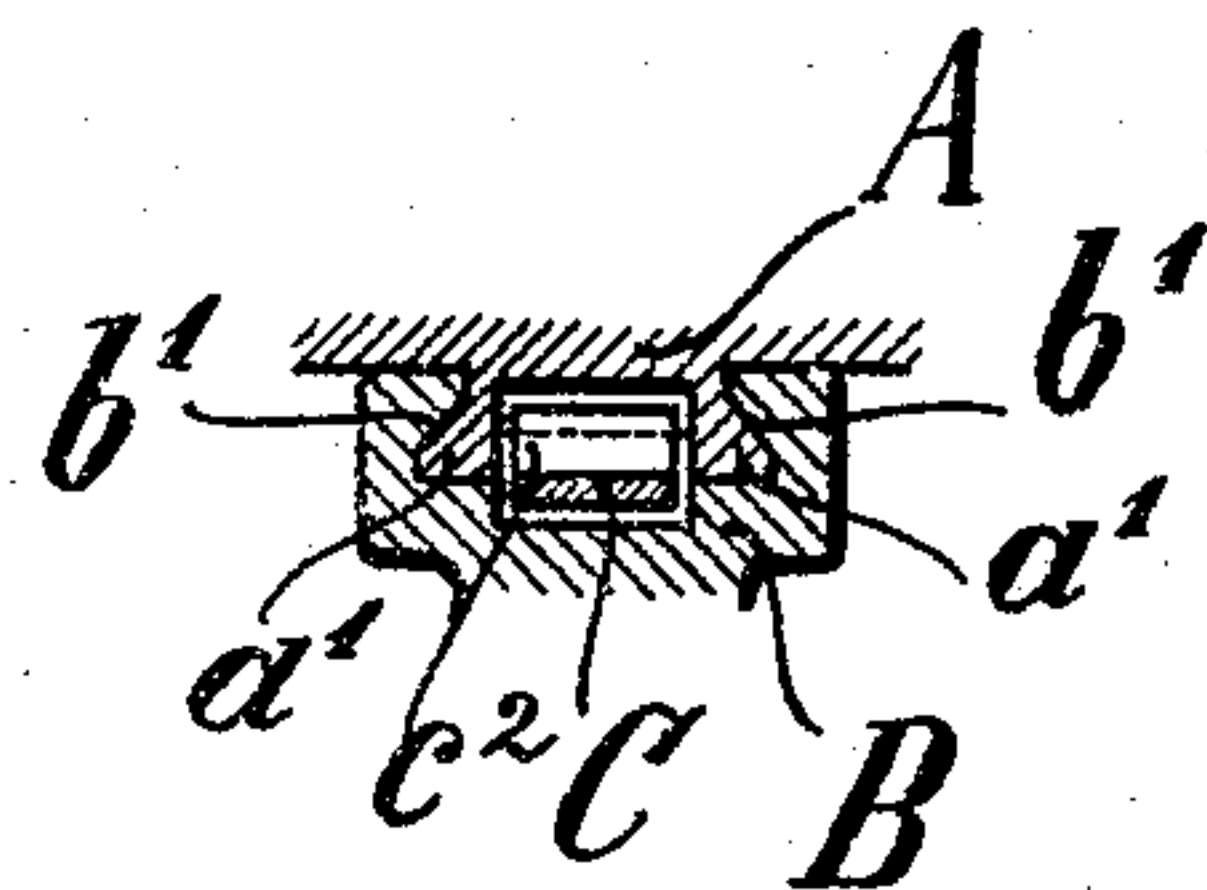
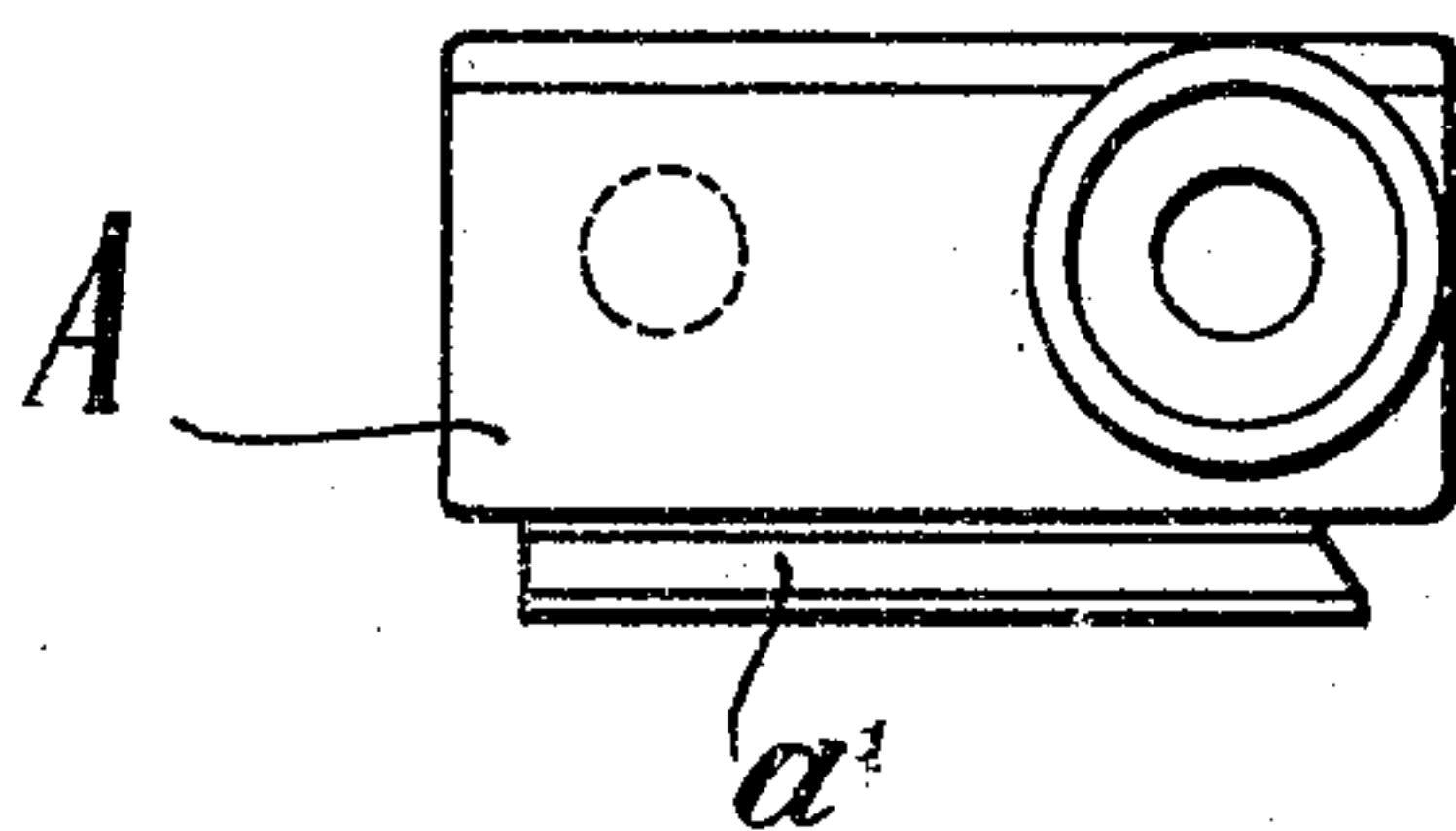


Fig. 5.



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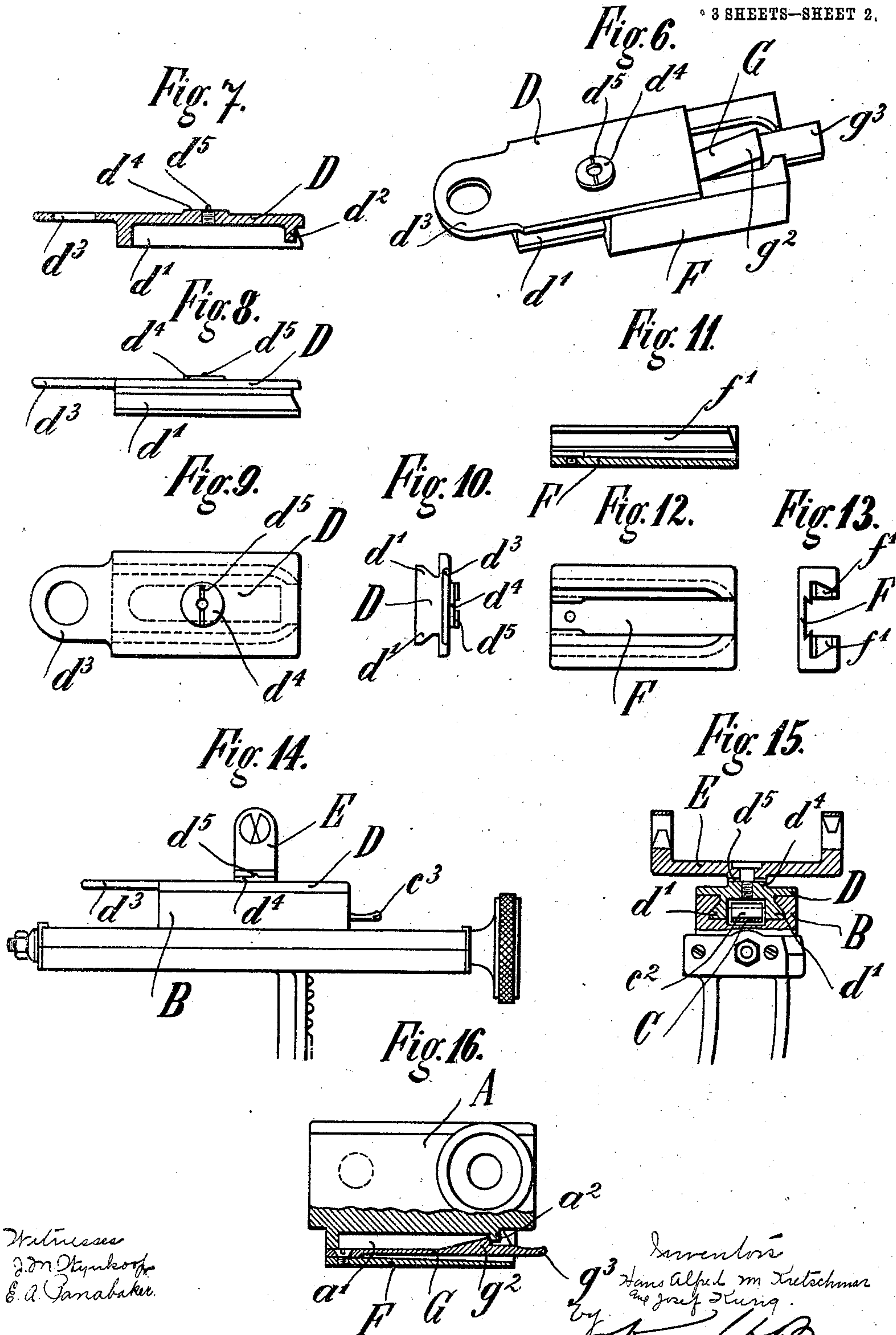
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3 SHEETS—SHEET 2.



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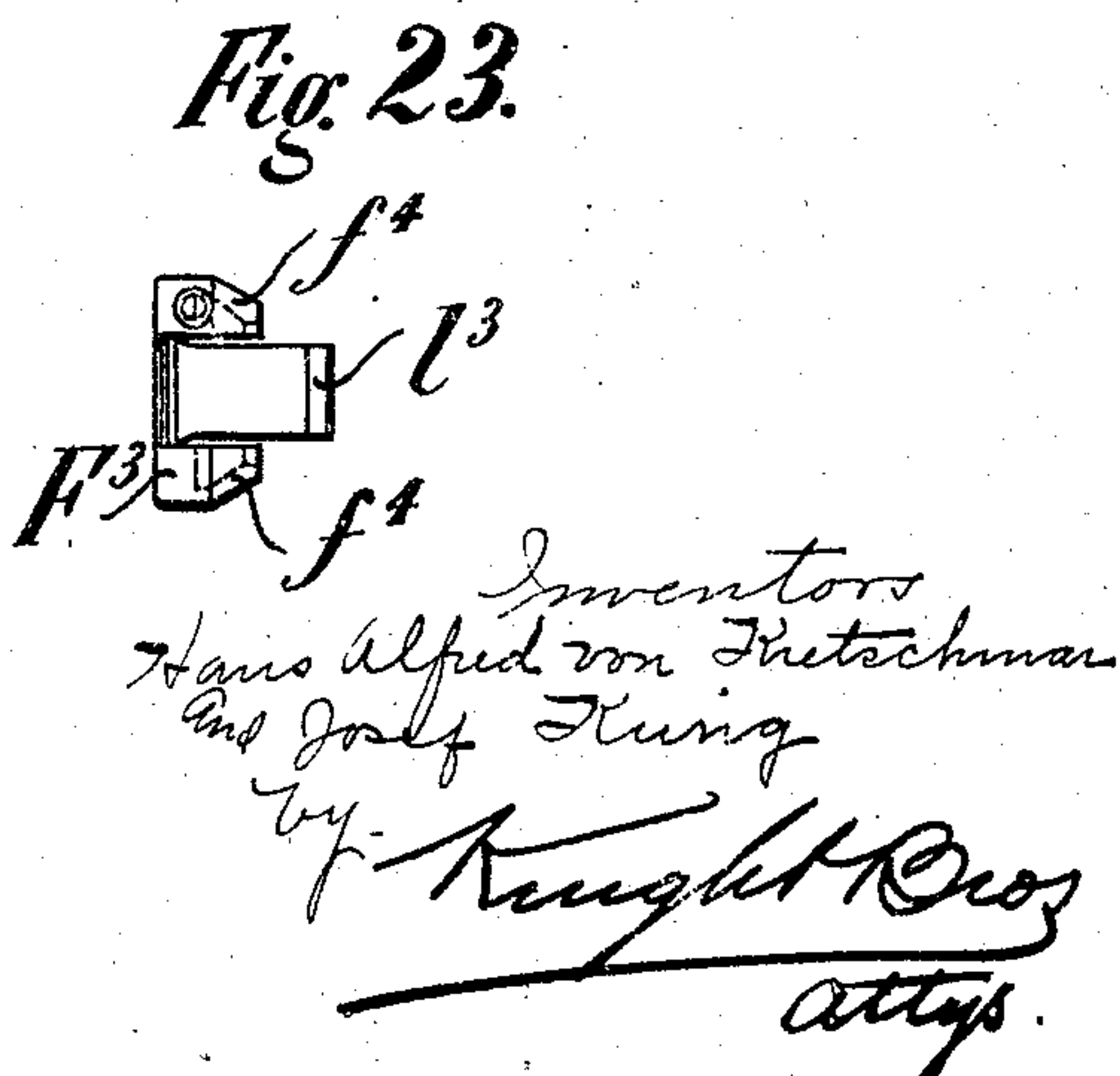
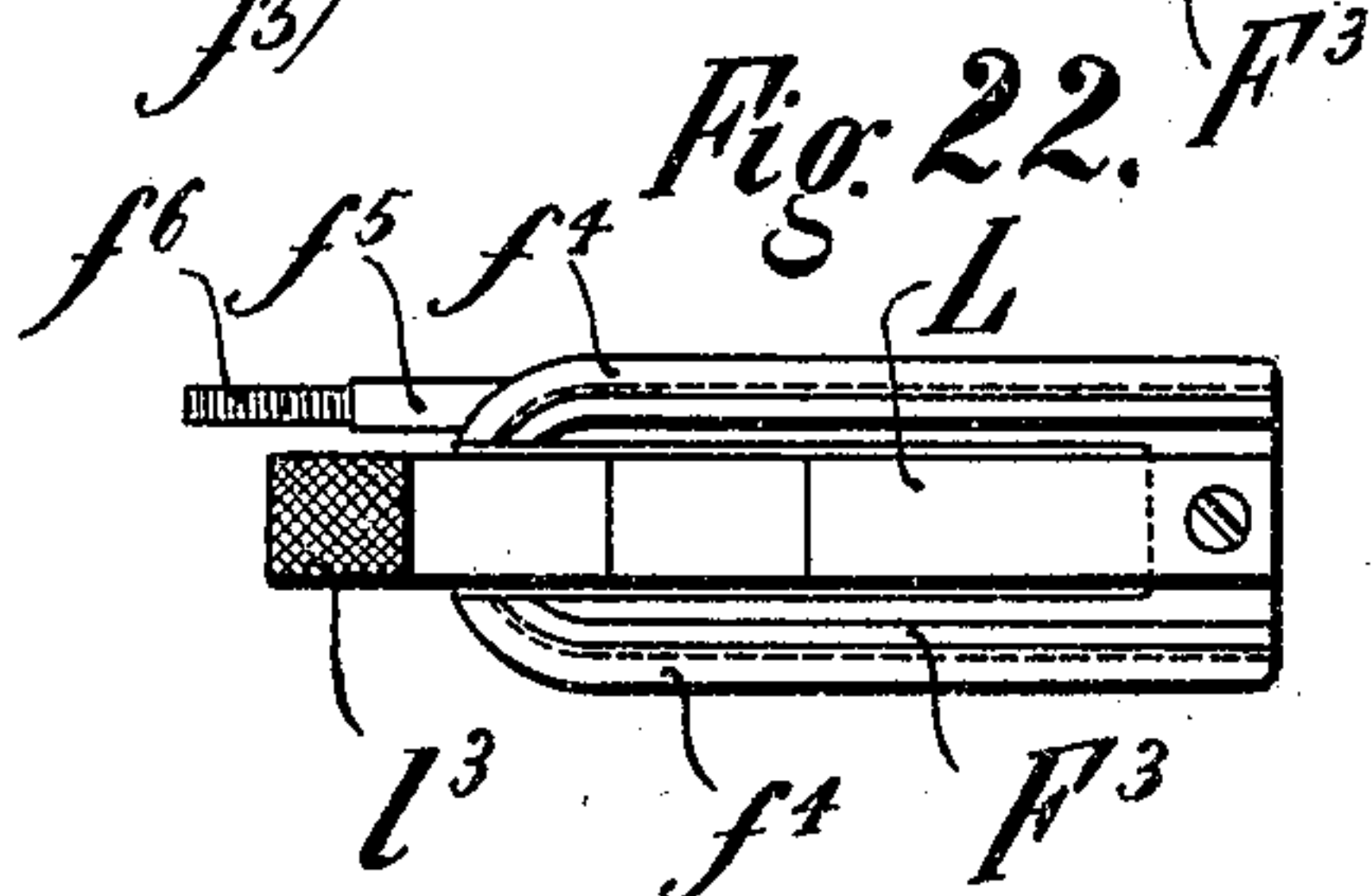
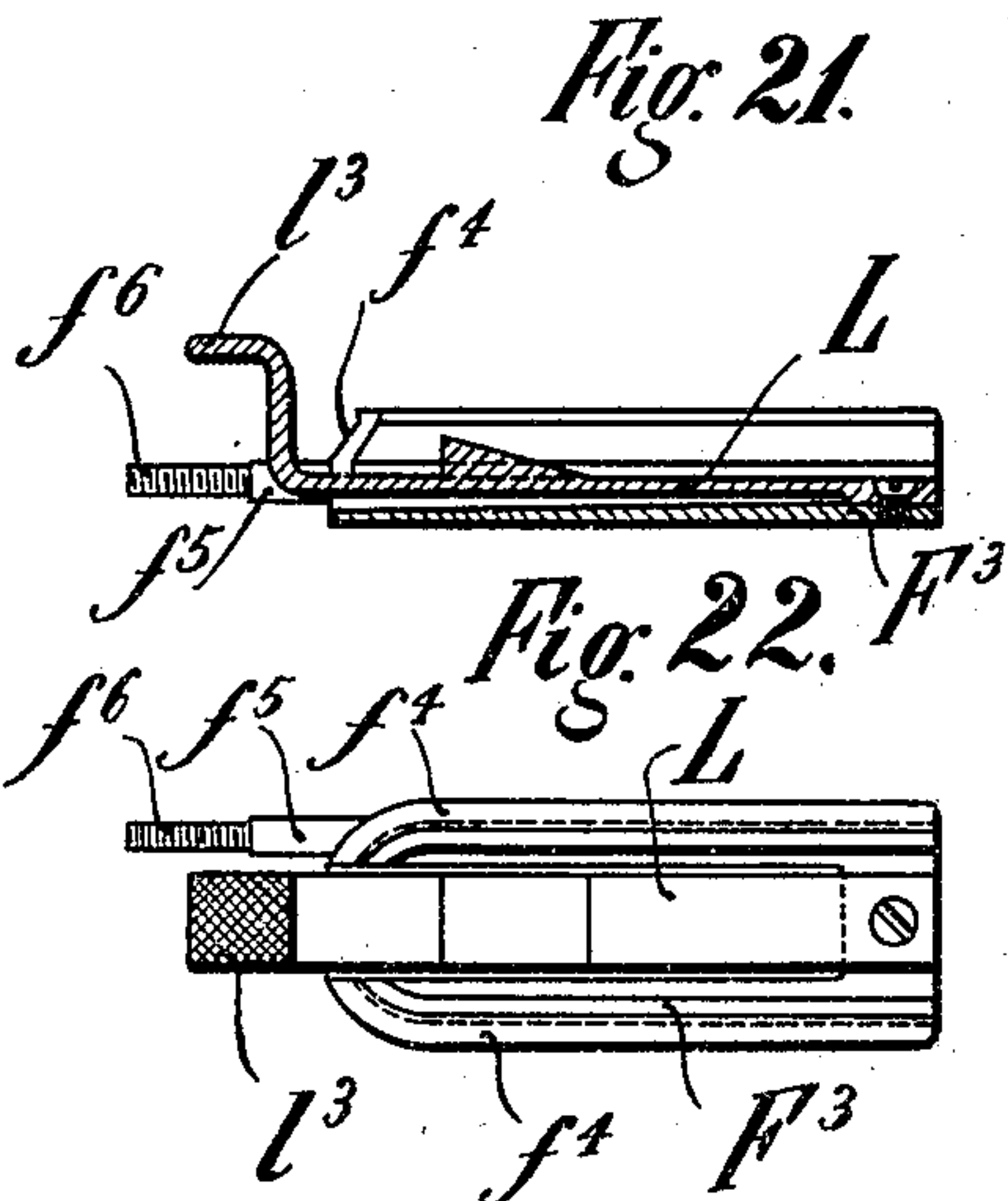
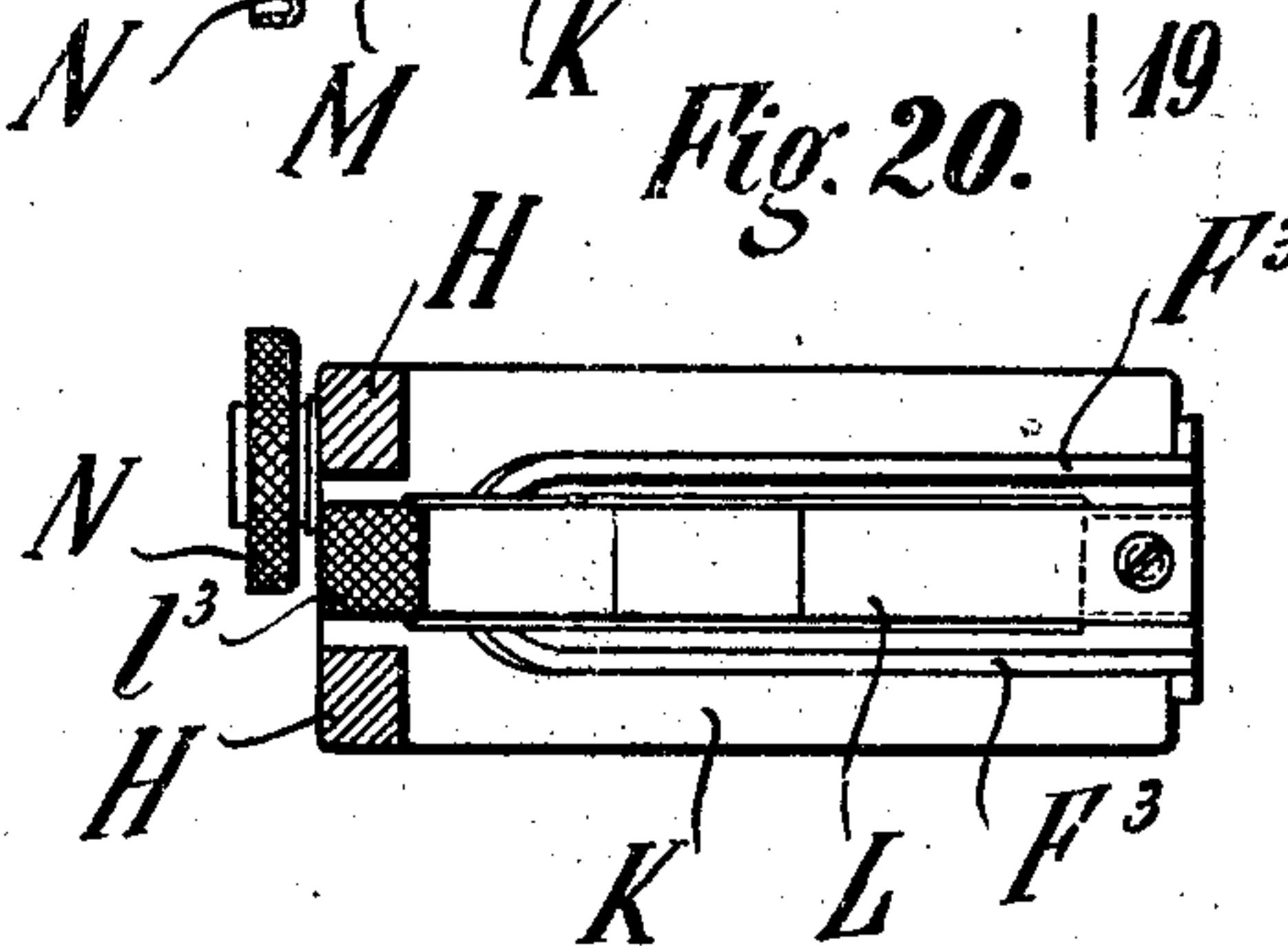
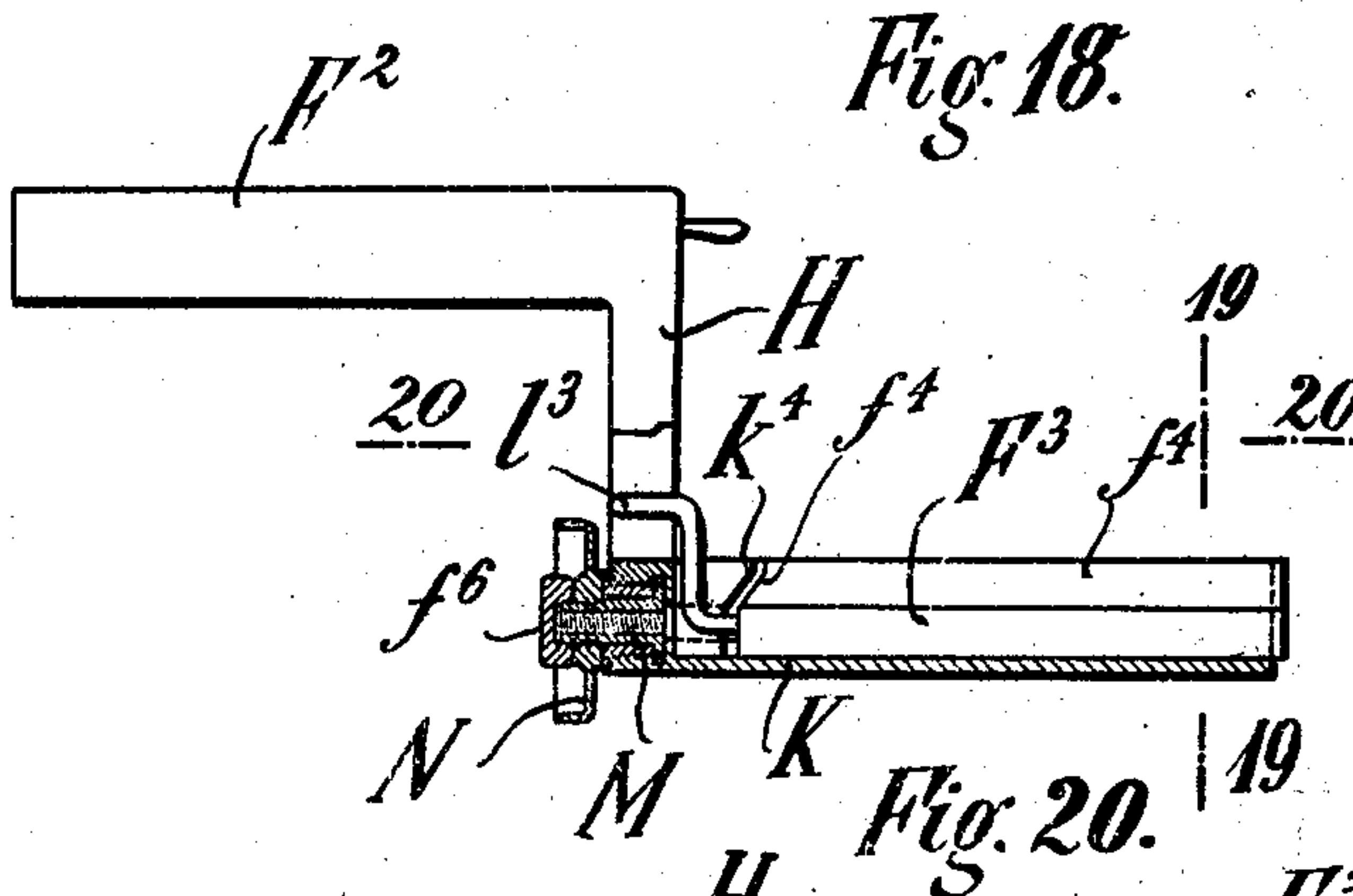
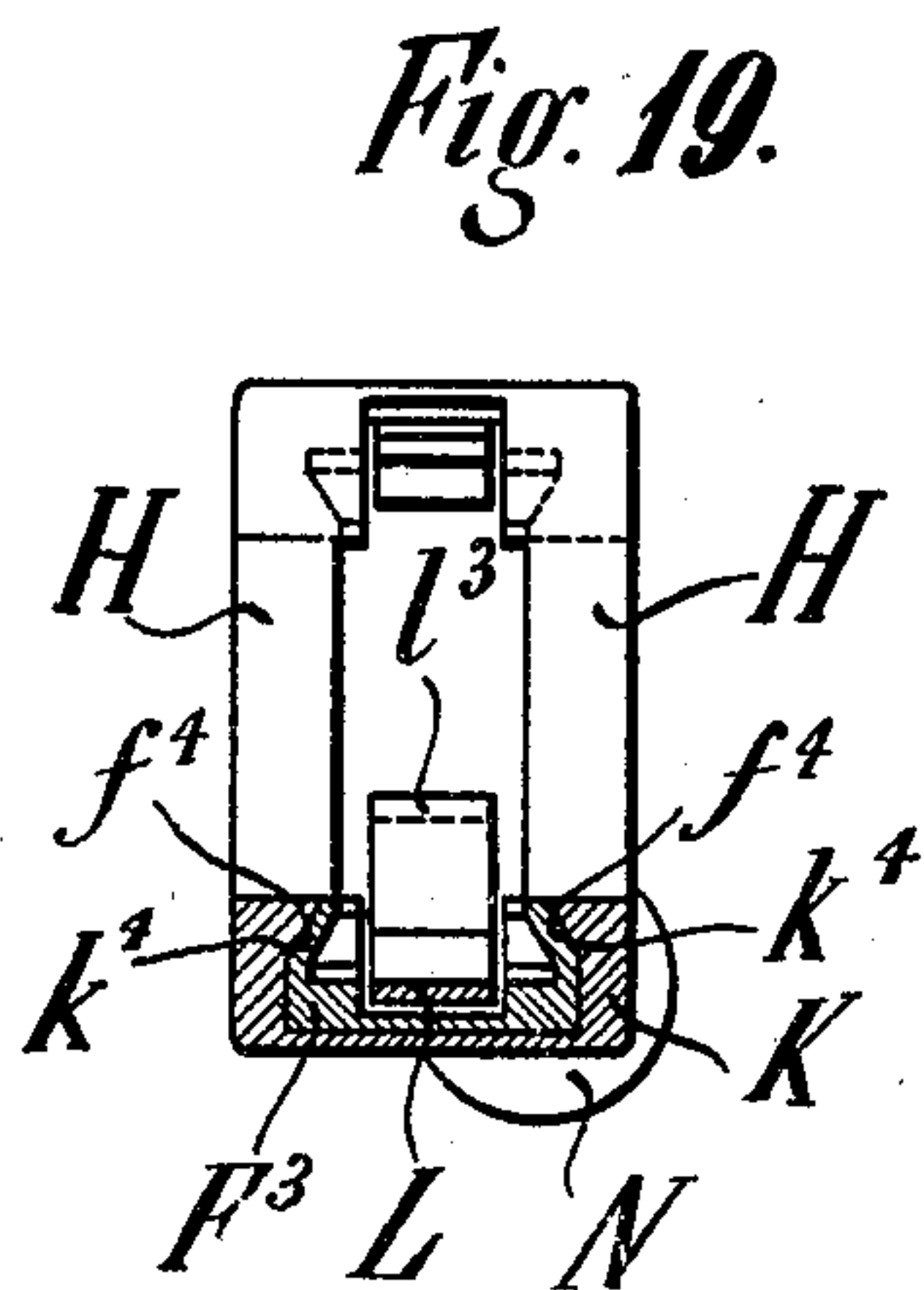
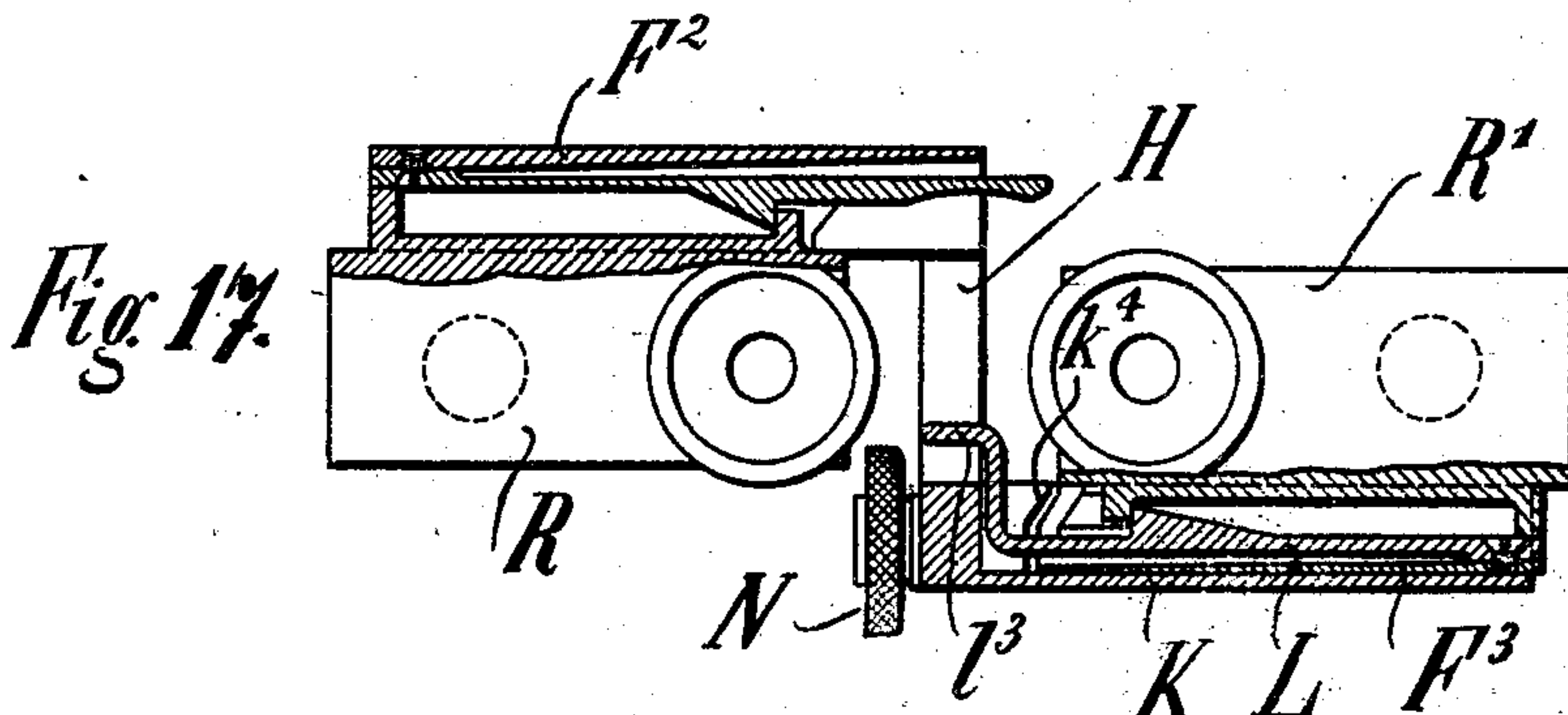
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

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REAR SIGHT FOR GUNS.

SPECIFICATION forming part of Letters Patent No. 785,893, dated March 28, 1905.

Application filed October 17, 1904. Serial No. 228,821.

To all whom it may concern:

Be it known that we, HANS ALFRED VON KRETSCHMAR, residing at Essener Hof, and JOSEF KURIG, residing at 16 Holzstrasse, Essen-on-the-Ruhr, Germany, subjects of the Emperor of Germany, have invented a certain new and useful Improvement in Rear Sights for Guns, of which the following is a specification.

10 The present invention relates to rear sights for guns with detachable sight device. When the sight device in such guns is detached, great care must be taken that the interlocking faces of the rear-sight head and the sight devices
15 do not become dirty or damaged, as it is absolutely necessary that the two interlocking parts closely fit one another, and damage or collection of dirt will render this difficult.

20 The object of the present invention is to prevent such damage or dirt-collection on the interlocking faces by means of a special protecting-piece.

According to the present invention the protecting-piece comprises two parts closely fitting one another and having interlocking faces that are true facsimiles of the interlocking
25 faces of the sight device and the rear-sight head, so that when the sight device is detached one of the protecting parts may be secured on the rear-sight head, while the other part is secured to the sight device.

The invention is illustrated in the accompanying drawings, in which—

35 Figure 1 is a view, partly in section, of the upper part of a gun rear sight to which the invention may be applied. Fig. 2 is a side view of parts shown in Fig. 1. Fig. 3 is a top view of the same, the sight device being detached. Fig. 4 is a sectional view of the line 4 4 of Fig. 1 and looking from the left.
40 Fig. 5 is a view of the sight device detached from the rear sight. Fig. 6 is a perspective view of one embodiment of the protecting-piece. Figs. 7 to 10 show a longitudinal section, a side view, a top view, and a front view,
45 respectively, of the part of the protecting-piece adapted to be secured to the rear-sight

head. Figs. 11 to 13 show a longitudinal section, a top view, and a front view, respectively, of the part of the protecting-piece adapted to be secured to the sight device, the catch-spring
50 belonging to this part being omitted. Fig. 14 is a view of the rear-sight head with one part of the protecting-piece secured thereto, the protecting-piece being provided with a supplemental sight. Fig. 15 is a side view,
55 partly in section, of Fig. 14. Fig. 16 is a view, partly in section, of the sight device with the other part of the protecting-piece secured thereto. Fig. 17 is a longitudinal section of another embodiment of the protecting-
60 piece especially applicable to gun rear sights with detachable telescope-sights. The telescopes connected with the protecting-piece are shown partly in section. Fig. 18 is a view,
65 partly in section, of the protecting-piece shown in Fig. 17, the telescopes being detached. Fig. 19 is a section on the line 19 19, Fig. 18, looking from the right. Fig. 20 is a section on the line 20 20, Fig. 18, looking from above.
70 Figs. 21 to 23 are a longitudinal section, a top view, and a front view, respectively, of a detail of the protecting-piece illustrated in Figs. 17 to 20.

Referring to Figs. 2 to 5, a short description will be given of a rear sight to which the present invention may be applied.

The sight device A, which may be a telescope-sight, is provided with dovetailed rails a' , inserted in undercut grooves b' , Figs. 2 and
80 4, in the rear-sight head B, and the sight device is held in interlocking engagement with the rear-sight head through the medium of a catch-spring C, provided with a cam c^2 , that engages the rear side of the bridge a^2 , Fig. 1,
85 of the sight device. By operating the finger-piece c^3 of the catch-spring C the cam is released from engagement with the bridge a^2 of the sight device, and the sight device may be slid out of engagement with the rear-sight
90 head B.

Referring to the embodiment of the protecting-piece shown in Figs. 6 to 16, D indicates the part for protecting the rear-sight head B.

(See especially Figs. 6 to 10.) The part D is provided with dovetailed rails d' , that are arranged and shaped to exactly correspond to the rails a' of the sight device A. On one end of the protecting part D is a bridge d^2 , Fig. 7, arranged and shaped to exactly correspond to the bridge a^2 of the sight device A. The part D is further provided with a handle d^3 and with a perforated boss d^4 , having a rib d^5 . On the boss d^4 a supplemental sight E may be secured, Figs. 14 and 15. F, Figs. 6, 11 to 13, and 16, indicates the part of the protecting-piece that is designed to protect the base of the sight device A when the said device is detached from the rear sight. The structure of the part F corresponds exactly to that of the upper part of the rear-sight head—that is to say, it is provided with a dovetailed groove f' , in the bottom of which a catch-spring G, with a cam g^2 and a handle g^3 , is arranged. (See Figs. 6 and 16. In Figs. 11 to 13 the catch-spring is not shown.) When the sight device A is secured on the rear-sight head B, the parts D and F of the protecting-piece are connected by sliding them into one another (see Fig. 6) until the cam g^2 of the catch-spring G engages the rear face of the bridge d^2 of the part D. A closed box is thus obtained. When the sight device is detached from the rear-sight head, the part D of the protecting-piece is inserted on the rear-sight head B (see Figs. 14 and 15) and the part F is inserted on the base of the sight device. (See Fig. 16.) The interlocking faces, the faultless nature of which is of great importance for the correct sighting, are thereby entirely covered and protected against damage and dirt.

The embodiment shown in Figs. 17 to 23 is especially applicable to gun rear sights in which telescopes are used as sight devices. Thus if two of the above-described protecting-pieces are connected by a cross-piece to form an angular-shaped bar the said bar can simultaneously serve as a cover for the telescopes of the two rear sights that are ordinarily used in one gun, and a handy binocular is thus obtained. The shank F^2 of the angular bar F^2 H K corresponds exactly to the part F of the protecting-piece. In the other shank, K, that is parallel to the shank F^2 and is provided with undercut grooves k^4 , a slide F^3 is inserted, having side walls f^4 fitting the grooves k^4 . The interior of the slide F^3 , that is illustrated in Figs. 21 to 23, corresponds exactly to the part F of the first-described embodiment; but the finger-piece l^3 of the catch-spring L is bent at right angles. Near the finger-piece l^3 the slide carries a projection f^5 , that terminates in a screw f^6 , which is parallel to the longitudinal axis of the slide. The screw f^6 engages a nut M, that is rotatably but non-slidably journaled in the shank K. A wheel N is rigidly connected to the

nut M, and by turning the wheel N the slide F^3 may be adjusted in the shank K in the longitudinal direction thereof. By means of the slide F^3 the shank K may receive the telescope R' of the supplemental rear sight, while the protecting part of the slide that is designed to cover the rear-sight head is secured on the rear-sight head of the supplemental rear sight. When the protecting part of the shank F^2 is detached, the shank may receive the other sight-telescope R. The protecting parts of the shank F^2 and the slide F^3 exactly correspond to the part D of the first-described embodiment, and therefore are not illustrated. When the two telescopes of the gun are arranged on the bar F^2 H K, a binocular is obtained, in which by turning the wheel N the distance between the optic axes of the telescopes may be adjusted to correspond to the distance between the eyes of the person who desires to use the binocular. If it be not desired to provide for the adjustment of the distance between the optic axes of the telescopes, the slide F^3 , with its adjustment device, may be done away with, and in such a case the shank K is shaped so as to exactly correspond to the shank F^2 .

Having thus described the invention, what is claimed as new therein is—

1. A protecting-piece for gun rear sights with detachable sight device, said piece having a face corresponding to the interlocking face of one of the separable parts.
2. A protecting-piece for gun rear sights with detachable sight device, said piece comprising two parts adapted to be interlocked, and having interlocking faces corresponding to the interlocking faces of the gun rear sight and the sight device.
3. A protecting-piece for gun rear sights with detachable sight device, said piece comprising two parts adapted to be interlocked and having interlocking faces corresponding to the interlocking faces of the gun rear sight and the sight device, one of said parts being provided with a supplemental sight device.
4. A pair of protecting-pieces for gun rear sights with detachable sight device, said pieces being connected with each other and each of said pieces comprising two parts adapted to be interlocked and having interlocking faces corresponding to the interlocking faces of the gun rear sight and the sight device.
5. A pair of protecting-pieces for gun rear sights with detachable sight device, said pieces being connected with each other and each of said pieces comprising a fixed part having interlocking faces corresponding to the interlocking faces of the rear sights so as to receive the sight devices in interlocking engagement.
6. A pair of protecting-pieces for gun rear sights with detachable sight device, said pieces being connected with each other capable of

adjustment toward each other and each of said
pieces comprising a fixed part and a detach-
able part having interlocking engagement,
said fixed parts having interlocking faces
5 corresponding to the interlocking faces of
the rear sights so as to receive the sight de-
vices in interlocking engagement.

The foregoing specification signed at Essen-
on-the-Ruhr.

HANS ALFRED VON KRETSCHMAR.

JOSEF KURIG.

In presence of—

HARRY F. MEFFORD,

JOHANNES KRONE.