

No. 791,129.

PATENTED MAY 30, 1905.

B. BEHR.

DEVICE FOR LOCKING THE BARRELS IN FIREARMS.

APPLICATION FILED JUNE 24, 1904.

Fig. 1.

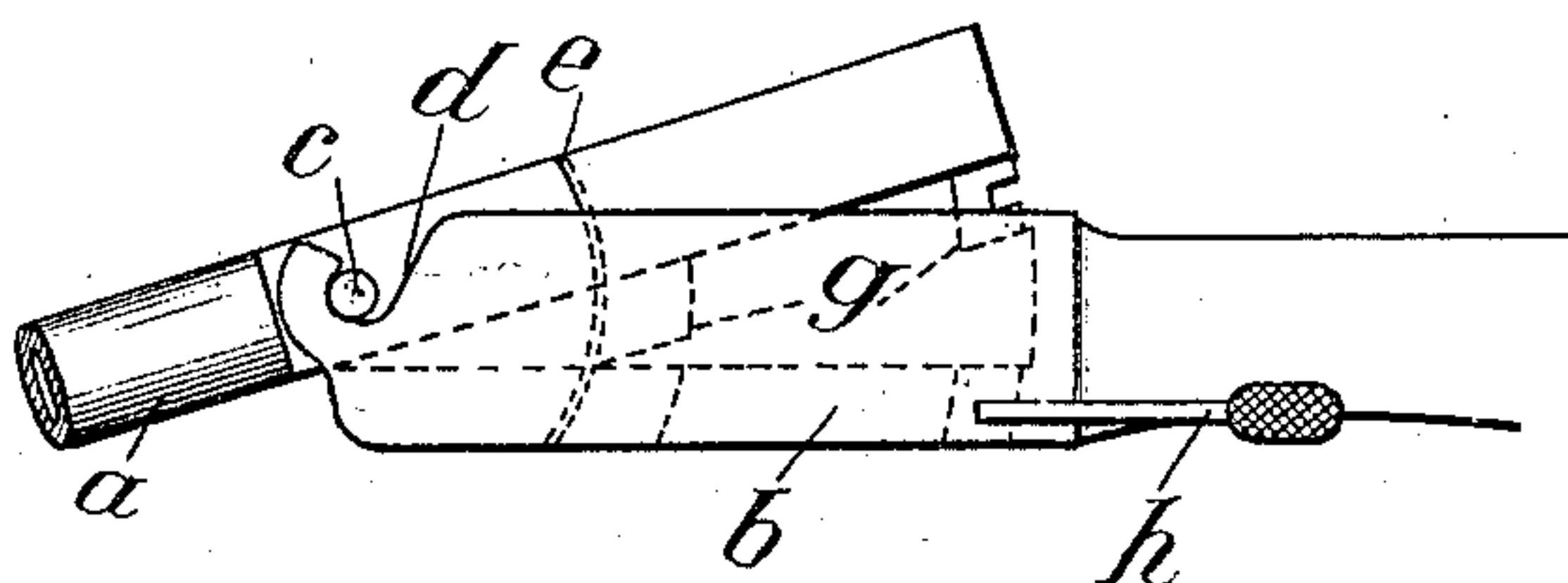


Fig. 2.

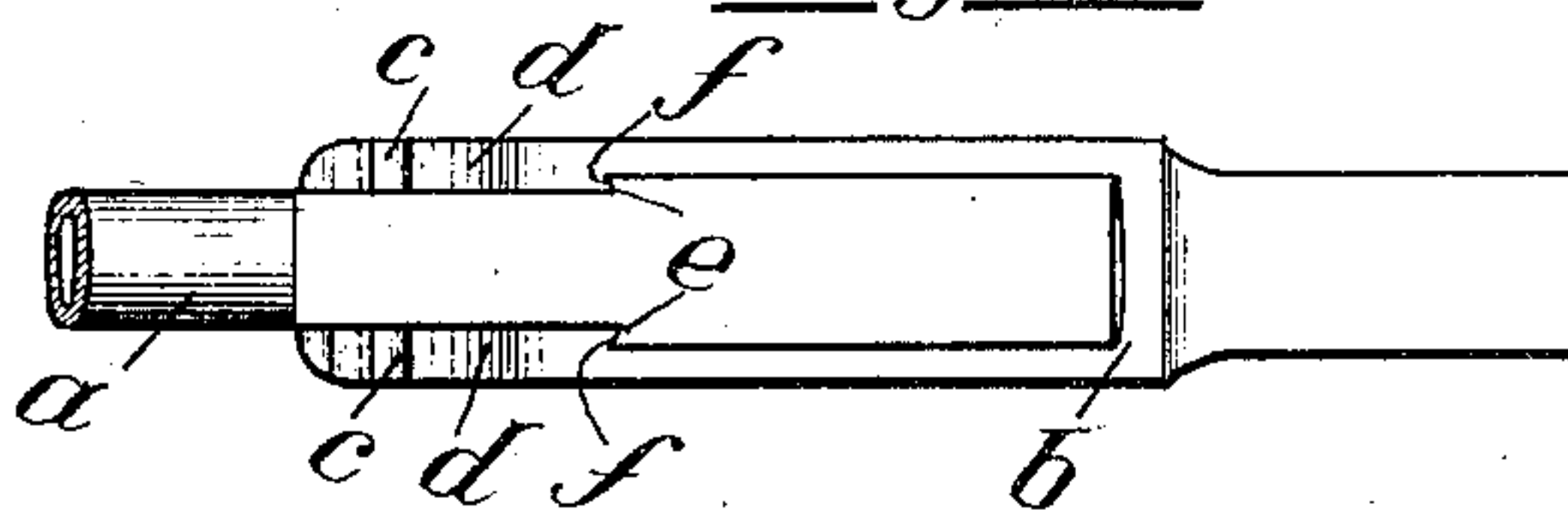


Fig. 3.

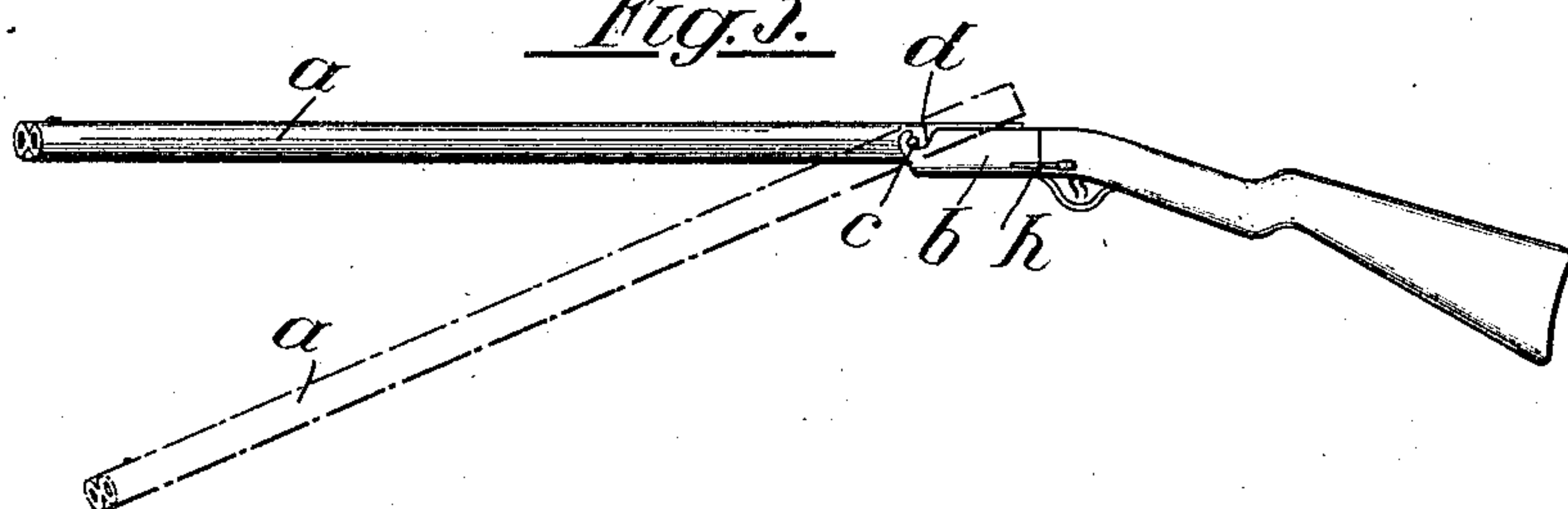


Fig. 4.

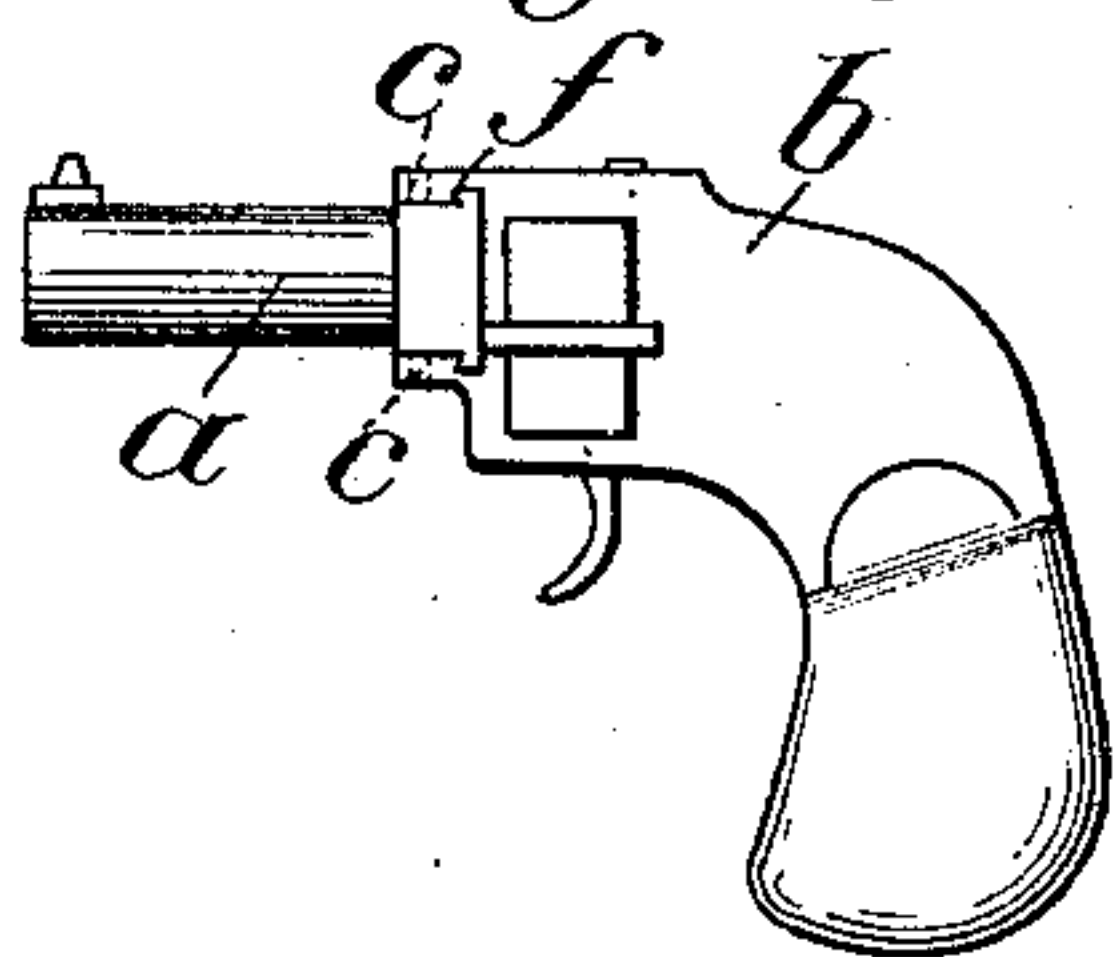
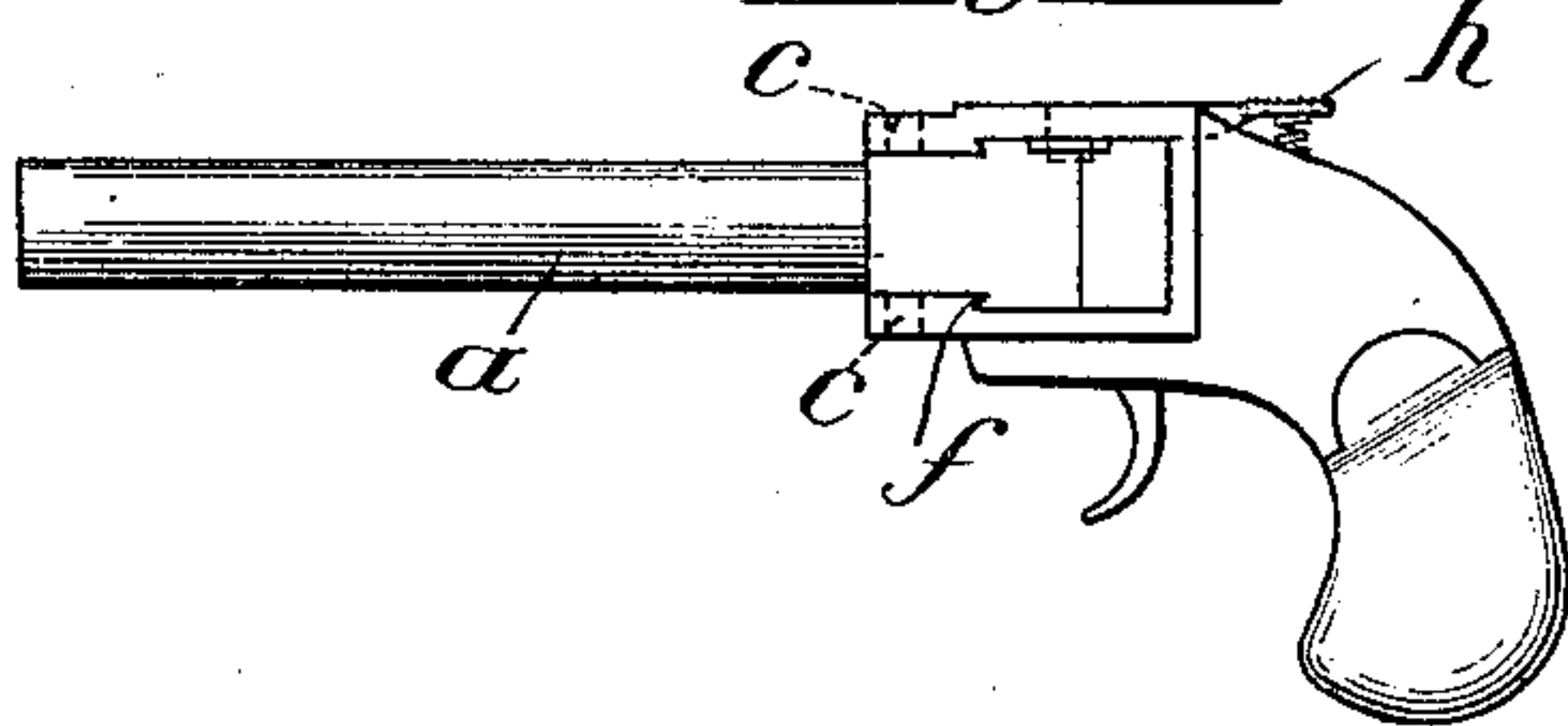


Fig. 5.



*Witness*  
Frank G. Brereton  
Albert T. Popham

*Inventor*  
Burkard Behr  
By *Steuhrant & Gruber*  
*attys*

# UNITED STATES PATENT OFFICE.

BURKARD BEHR, OF HAMBURG, GERMANY.

## DEVICE FOR LOCKING THE BARRELS IN FIREARMS.

SPECIFICATION forming part of Letters Patent No. 791,129, dated May 30, 1905.

Application filed June 24, 1904. Serial No. 213,946.

*To all whom it may concern:*

Be it known that I, BURKARD BEHR, a citizen of the German Empire, residing at Hamburg, in the German Empire, have invented certain new and useful Improvements in Devices for Locking the Barrels in Firearms, of which the following is a description, reference being had to the accompanying drawings and to the letters of reference marked thereon.

This invention has for its object a device for locking the barrels in firearms of all kinds, in which the barrel is arranged inside a casing or stock on an axis of rotation at right angles to the axis of the bore. The hinge-like method of folding up the barrel hitherto employed in firearms with tilting barrels is by the present invention entirely avoided and replaced by pivoting on an axis the ends of which lie in the wall of the casing or stock. For this object the barrel has two pins opposite one another, by means of which pins the barrel is mounted inside the stock or a casing of the same in such a way that its mounting suffices to meet all requirements as regards pressure, strains, and the like, which is not the case in the ordinary tilting barrels arranged so as to be able to be turned out, as these barrels are only mounted at one lower support-point and are not secured from above. The arrangement of the lateral projections on the barrel, which are undercut concentrically to the axis of rotation and which engage behind corresponding projections on the casing in the shooting position of the barrel, is also an essential feature. By this means the strength is considerably increased, and the barrel can no longer be forced away from the recoil-plate of the casing or frame. By reason of this favorable arrangement the cross-bolts hitherto employed in firearms with tilting barrels are avoided, and only one fixing-bolt is required, which is in no way overstrained in holding the barrel in a correct position.

The object of the invention is shown more particularly in the accompanying drawings.

Figure 1 is a side view; Fig. 2, a plan view; Fig. 3, the arrangement applied to a sporting-gun, Fig. 4 to a revolver, and Fig. 5 to a pis-

tol; but this of course does not exhaust all the rearms which may be provided with the object of the invention.

In this invention the barrel *a* is pivotally and by means of a slot *d* removably arranged inside a casing or stock *b*, in which the trigger or firing mechanism is placed. The barrel may be turned on an axis of rotation formed of pins *c*, lying opposite one another and which according to this invention are at right angles to the axis of the bore. By this means the great advantage is obtained of avoiding a one-sided pivoting attachment, such as is employed in the ordinary tilting barrels. The advantage is also obtained, as compared with ordinary locking devices which are adapted to be turned out of position, that the barrels are no longer freely revolvably mounted on a pin or the like, but firmly inside a casing, and thereby all requirements as regards tension, pressure, strength, and the like are fully met, which, as is well known, is of great importance for military weapons. The barrel has at the sides projections *e*, concentrically undercut to the pivots *c*, which projections in the closed position of the barrel are engaged by projections *f* in the casing or stock *b*. When the barrel *a* is turned back into the casing, it is locked by a lever *h*, operated by a spring snapping into engagement with a knob or stud in the casing *b*.

In the form of construction shown in Figs. 1 to 3 the locking of the barrel *a* takes place by means of separate projections *g*. The arrangement of the barrel in firearms inside a casing adapted to be turned out on a vertical axis at right angles to the axis of the bore may be employed in firearms of all kinds without the other construction of these arms having thereby to undergo alterations.

In double-barreled firearms—such, for instance, as the sporting-gun shown in Fig. 3—the butt is displaced on a horizontal instead of a vertical pivot as compared to the revolver and pistol arrangement shown in Figs. 4 and 5; but otherwise the invention is the same.

Having now particularly described and ascertained the nature of my said invention and



in what manner the same is to be performed,  
I declare that what I claim is—

In a firearm, a casing or stock, a barrel,  
pins on the barrel engaging bearings in the  
5 casing or stock, the axes of said pins being  
in the plane of the axis of the bore, said bar-  
rel being provided with lateral projections,  
which are undercut concentrically to the axis  
of rotation, and in the closing position are  
10 engaged by suitable projections on the casing,

thus increasing the resistance to gas-pressure,  
and preventing any rocking, or lateral dis-  
placement, of the barrel, substantially as de-  
scribed.

In testimony whereof I affix my signature in 15  
presence of two witnesses.

BURKARD BEHR.

Witnesses:

OTTO W. HELLMRICH,

E. H. L. MUMMENHOFF.