(No Model.)

G. W. CILLEY.

FASTENING DEVICE FOR GUN BARRELS.

No. 450,448. Patented Apr. 14, 1891.

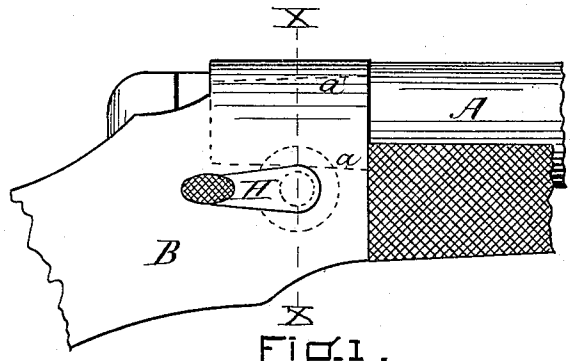


Fig. 1.

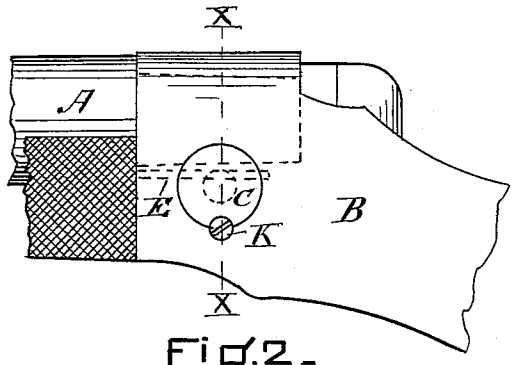


Fig. 2.

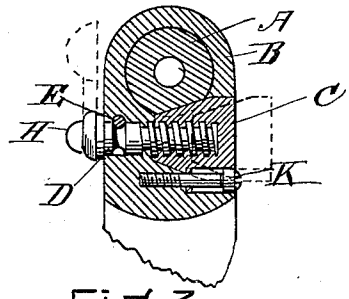


Fig. 3.

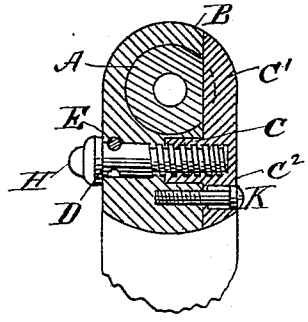


Fig. 4.

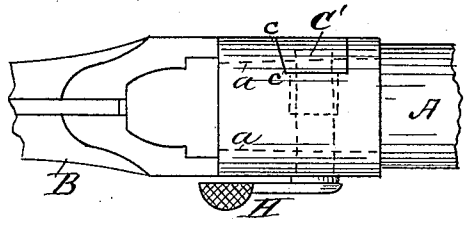


Fig. 5.

WITNESSES

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GEORGE W. CILLEY, OF NORWICH, CONNECTICUT.

FASTENING DEVICE FOR GUN-BARRELS.

SPECIFICATION forming part of Letters Patent No. 450,448, dated April 14, 1891.

Application filed November 28, 1890. Serial No. 372,933. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. CILLEY, of Norwich, in the county of New London and State of Connecticut, have invented certain new and useful Improvements in Fastening Devices for Gun-Barrels, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to the method of fastening a gun-barrel to its breech-frame; and it consists in fitting into the frame at one side of the gun a jaw or clamp adapted to enter into a transverse groove made in the barrel and to be drawn into place by a clamping-screw operated from the other side of the gun. This mechanism and arrangement is shown in the accompanying drawings, in which—

Figure 1 is a side view of a part of a gun, showing a part of my attachment. Fig. 2 is a side view similar to Fig. 1, but taken from the other side. Fig. 3 is a cross-section taken on line *x x* of Figs. 1 and 2. Fig. 4 is a view in cross-section showing the clamping-jaw slightly modified. Fig. 5 is a plan showing a part of the gun and indicating by dotted lines the shape of the modified clamp of Fig. 4.

In the drawings I have shown only such parts of a gun as are necessary to illustrate my invention, and need not describe the gun in detail, as my device will apply equally well to a great many styles of guns.

The barrel is indicated by A and the breech-frame by B. The breech end of the barrel B is coned, as indicated by dotted lines at *a a*, Figs. 1 and 5, and fits into a corresponding recess made in the breech-frame.

C, Fig. 3, is a cone-shaped clamping-piece adapted to be moved laterally in relation to the gun-barrel and to fit into a transverse recess made in the barrel, as indicated, and thus to hold the barrel firmly in its place when desired. The clamping-piece C is moved in and out by the screw D, said screw D having a hand or arm H extending from it, as shown. By turning the screw D in one direction the clamping-piece C is drawn in, so that it will hold the barrel firmly in place. When it is desired to remove the barrel, the screw D is so turned as to force the clamping-piece C outward, as indicated by dotted lines in Fig. 2. This causes the clamping-piece C to withdraw from the recess in the gun-barrel, and thus leave it in condition to be removed from the frame. The clamping-piece C is held from turning and also limited in its motion by the screw K, which fits in a groove made in the clamping-piece for that purpose. The screw D is held longitudinally in place by the pin E, Fig. 3, which fits into an annular groove made in it, as shown.

In Figs. 4 and 5 the clamping-piece is modified in shape, it being provided with an arm C′ extending upward through a vertical groove made in the side of the barrel, as shown. It also has a short projection C^2 extending below its center, which forms, in connection with the screw K, a guide for keeping it in place and limiting its movement. The front side of the arm C′ is beveled, as shown at *c c*, Fig. 5, so that as the clamping-piece is drawn in it will act as a wedge to force the gun-barrel back firmly into its place.

I claim—

In a gun, the combination of a barrel having a cone-shaped breech end, said breech end adapted to fit into a recess in the breech-frame and having a lateral groove for receiving a clamping-piece, as described, said clamping-piece so located in the said breech-frame that it can engage with and hold the barrel in place, and a screw by which the said clamp is operated, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 24th day of November, A. D. 1890.

GEORGE W. CILLEY.

Witnesses:

SOLOMON LUCAS,

ELISHA P. SLOCUM.