

D. C. Heller,
Shutter Bolt.

N^o 43,407.

Patented July 5, 1864.

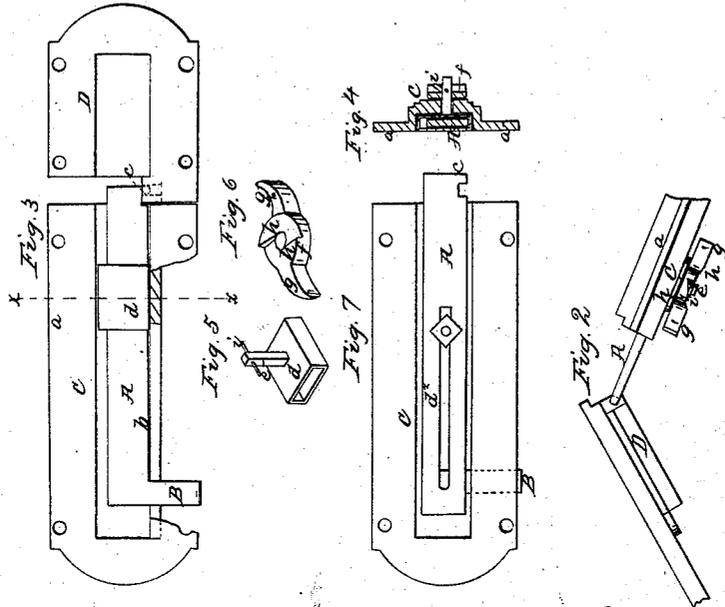


Fig. 1

Witnesses:

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UNITED STATES PATENT OFFICE.

DANIEL C. HELLER, OF READING, PENNSYLVANIA.

IMPROVED SHUTTER-BOLT.

Specification forming part of Letters Patent No. 43,407, dated July 5, 1864.

To all whom it may concern:

Be it known that I, DANIEL C. HELLER, of Reading, in the county of Berks and State of Pennsylvania, have invented a new and Improved Shutter-Bolt; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a shutter having my bolt attached to it when closed. Fig. 2 is a horizontal section of the same when partially opened. Fig. 3 is an inside view of the bolt detached. Fig. 4 is a transverse vertical section of the same, taken in the plane indicated by the line *xx*, Fig. 3. Figs. 5 and 6 are detached views of the means for fastening the bolt in the desired position. Fig. 7 is an inside view of a modification of the bolt.

Similar letters of reference in the several views indicate corresponding parts.

This invention relates to an improvement in that class of shutter-bolts which serves to secure the shutter when the same is partially open or when it is wholly closed.

The invention consists in the employment or use of a stationary stud passing through the case and arranged in combination with the movable bolt and with a revolving button in such a manner that by turning said button partially round the stationary stud is forced up and by its action the bolt is firmly secured in that position which it occupies when the button is rotated, and by these means the shutter to which the bolt may be attached can be secured when it is entirely closed or partially open.

A represents a bolt, made of iron or any other suitable material, and provided with a handle, B, which serves to push the bolt backward or forward and to bring it in the desired position. Said bolt moves backward and forward in a case, C, which is open at the bottom, and provided with a flange, *a*, whereby the same can be readily fastened to a door or shutter, and a slot, *b*, in its under side, admits the handle B. When the case with the bolt is secured to one-half of a shut-

ter and the bolt is moved out, it passes into a socket, D, which is secured to the other half of said shutter, and when the shutter is partly open a hook, *c*, at or near the outer end of the bolt, can be made to catch in a hole in a lip projecting from the front edge of the socket D. When the shutter is wholly closed, the bolt can be run in the socket D, and it fastens the shutter in the usual manner.

In order to fasten the bolt in any desired position in which it may be brought, it passes through a sleeve, *d*, a detached perspective view of which is shown in Fig. 5. From this sleeve rises a stud, *e*, which is square, and extends through a square hole in the case C in such a manner that it retains the sleeve stationary and prevents it from turning. Said stud is long enough to pass through a button, *f*, which is provided with a round hole, so that it can be freely revolved in either direction. Two wings, *g*, extending from the same, serve to turn it in either direction, and its upper surface forms two inclined planes, *h*, rising in opposite directions, as clearly shown in Fig. 6, which represents a detached perspective view of said button. A pin, *i*, passes transversely through the stud *e* at such a height above the upper surface of the button that it does not come in contact with the same while standing just over its lowest portion; but if the button is turned the inclined planes *h* act on said pin, and the sleeve *d* is forced up and made to clamp the bolt and to retain it firmly in the desired position.

Instead of passing the bolt A through the sleeve *d*, said sleeve may be done away with entirely and the stud *e* may be made to extend through a slot, *d**, in the bolt, as shown in Fig. 7, and a nut secured to the inner end of the stud prevents the same from passing up through the slot in the bolt. If the button is turned, the inclined planes *h* act upon the pin *i*, and by the action of the stud the bolt is forced up against the inner surface of the case and thereby retained in the desired position. In either case the bolt is fastened by the action of the revolving button on the pin *i*, which passes transversely through the stud *e*. In the first case the full strength of the bolt is retained; but the expense of mak-

ing the sleeve with the stud is somewhat larger than that of making the stud with the nut.

What I claim as new, and desire to secure by Letters Patent, is—

The revolving button *f*, with inclined planes *h*, in combination with the stationary

stud *e*, pin *i*, and bolt *A*, constructed and operating in the manner and for the purpose herein shown and described.

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Witnesses:

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