

S. W. PARSONS.  
BOLT.  
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1,246,992

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Fig. 1.

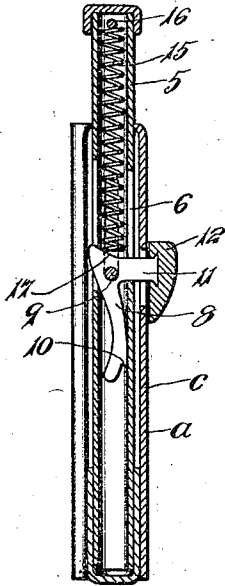


Fig. 2.

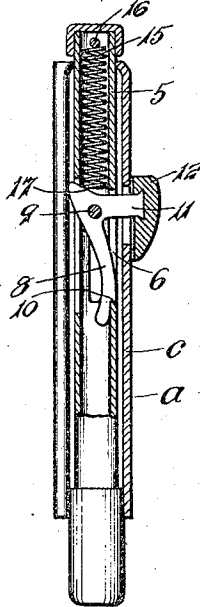


Fig. 3.

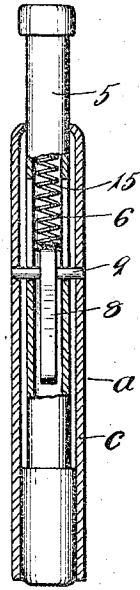
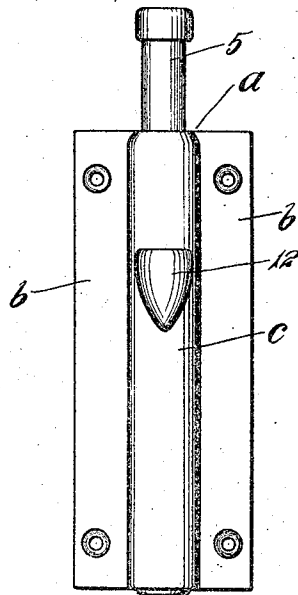


Fig. 4.



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## BOLT.

1,246,992.

Specification of Letters Patent.

Patented Nov. 20, 1917.

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*To all whom it may concern:*

Be it known that I, STUART W. PARSONS, a citizen of the United States, and a resident of New Britain, county of Hartford, State of Connecticut, have invented certain new and useful Improvements in Bolts, of which the following is a specification.

The object of the invention is to produce an article of the character described having features of novelty and advantage.

In the drawings—

Figure 1 is a sectional side view showing the bolt retracted.

Fig. 2 is a similar view showing the bolt projected.

Fig. 3 is a sectional rear view.

Fig. 4 is a front view.

Referring to the drawings, *a* denotes the casing provided with securing flanges *b*, *b*, and an aperture in the front of the barrel, *c*. A bolt 5 is slidably fitted in the barrel and is slotted as at 6 to receive a locking lever 8 which is pivotally supported on a pin 9. The tail end of the locking lever is positioned within the bolt and is provided with a catch 10 to interengage with the end of the slot 6 to hold the bolt in projected position. The outer end of the lateral branch 11 of the lever extends through the aperture in the front of the barrel and receives the operating piece 12.

It will be noted that the pivotal point of the lever is approximately at the center of the bolt. A compression spring 15 is fitted within the bolt between the upper end of the lever and a pin 16. In order that the spring may rock, or tend to rock, the tail end of the lever into position to interlock with the bolt, the inner end of the lateral branch of the lever at the opposite side of the pivot from the operating piece is upwardly inclined, as clearly indicated at 17, with the result that one side of the spring bears against the high point, as clearly seen in Fig. 1.

The compression of the spring as the bolt is projected presses the lower end of the lever against the bolt, and when the slot 6 is reached the lever springs out so that its catch interengages with the end of the slot. The bolt is released by pressing on the operating piece which rocks the lower end of the lever out of engagement with the bolt, leav-

ing the compression spring free to retract it. This compression spring it will clearly be seen performs the double function of throwing the bolt in one direction and of rocking the lever in one direction, and the inclination of the upper face of the lever permits of a very compact arrangement of the parts. The use of a compression spring gives the bolt a very smooth and easy action and its use is advantageous for various reasons, among which is the one that in case the spring should break it will still retain some effectiveness to retract the bolt.

In accordance with the provisions of the patent statutes I have described the principle of operation of my invention, together with the apparatus which I now consider to represent the best embodiment thereof; but I desire to have it understood that the apparatus shown is only illustrative, and that the invention can be carried out by other means.

I claim as my invention:—

1. In an article of the character described, a casing, a bolt slidable within said casing, a lever located within said bolt and pivotally supported by said casing, interengaging parts on said lever and bolt, a compression spring located between the upper end of said lever and the top of said bolt, and an operating member connected with said lever and extending outside of said casing.

2. In an article of the character described, a casing, a bolt slidably mounted therein, a locking lever pivotally supported in said casing and having a part adapted to interengage with said bolt to hold it in projected position, and a spring bearing upon said lever and tending to move it into engaging position and also effective to retract said bolt.

3. In an article of the character described, a casing, a bolt slidably mounted therein, a lever located within said bolt pivotally supported in said casing and provided with a lateral branch extending to the exterior of said casing, an operating member secured to the outer end of the lateral branch, an inclined surface on said lever at the opposite side of the pivot from said operating member, and a spring arranged above said lever and bearing against a high point of said inclined surface.

STUART W. PARSONS.