

(No Model.)

C. STEVENSON.
Spring Key Bolt.

No. 237,335.

Patented Feb. 1, 1881.

Fig. 1.

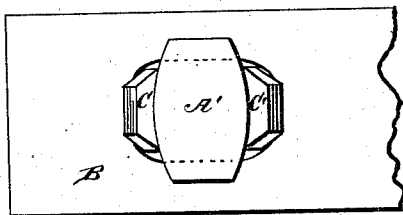


Fig. 2.

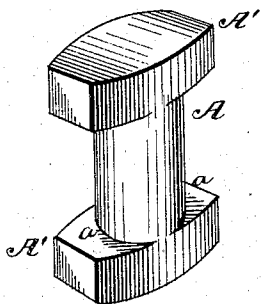


Fig. 3.

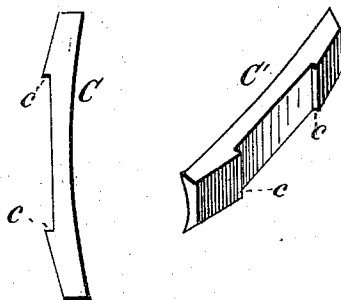
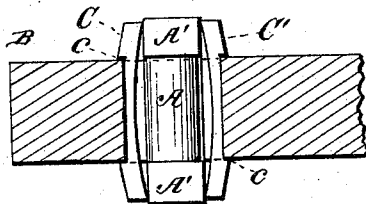


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

CLINTON STEVENSON, OF OSWEGO, NEW YORK.

SPRING KEY-BOLT.

SPECIFICATION forming part of Letters Patent No. 237,335, dated February 1, 1881.

Application filed October 5, 1880. (No model.)

To all whom it may concern:

Be it known that I, CLINTON STEVENSON, a citizen of the United States, residing at Oswego, in the county of Oswego and State of New York, have invented certain new and useful Improvements in Spring Key-Bolts; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to bolts and devices for locking them; and it consists, mainly, in combining with a double-headed bolt a pair of spring-plates for locking the same.

It also consists in the peculiar construction of the bolt and locking-plates, as hereinafter set forth.

In the accompanying drawings, Figure 1 represents an end view of the bolt when locked. Fig. 2 represents a detail perspective view of the said bolt, and Fig. 3 represents a detail view of the two locking-plates. Fig. 4 represents a side view of the bolt when locked.

A designates my improved bolt, which has two fixed heads of oblong form, one at each end of said bolt. These heads (marked A' A') overlap the main cylindrical part or shank of the bolt on two sides at *a a*.

B designates the plate or other article or substance through an oblong slot in which one of the bolt-heads A' is passed.

C C' designate two spring-plates used for locking said bolt. Each of these is of concavo-convex form, with two shoulders, *c c*, formed

upon its outer side to lock it against withdrawal.

The method of applying the said devices is as follows: Pass one of the heads A' through the oblong slot in plate B. Then turn it transversely, so that the ends *a a* shall overlap the plate, (or plates, if the bolt be applied to more than one,) and force the spring-plates C C' into said slot at each side of said bolt, with their concave sides inward. The elasticity of said plates causes them to bind against the bolt-heads on the one side and the plate on the other, and thus prevents said bolt from turning in the least out of its transverse position. The shoulders *c c* prevent the endwise withdrawal or dislodgment of either of said plates.

A bolt thus fastened is subject to no loosening. It will not be broken by frost or jar, since the spring-plates will yield sufficiently to allow slight motion under great strain.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of a bolt, A, having oblong overlapping heads A', with shouldered plates of elastic metal adapted to lock said bolt in place, substantially as set forth.

2. The combination of spring-plates C C', having shoulders *c c* on their outer sides, with a double-headed bolt.

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

CLINTON STEVENSON.

Witnesses:

F. E. HAMILTON,
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