(No Model.)

B. BERNSTEIN.

SPRING BOLT.

No. 475,922. Patented May 31, 1892.

Fig. 1.

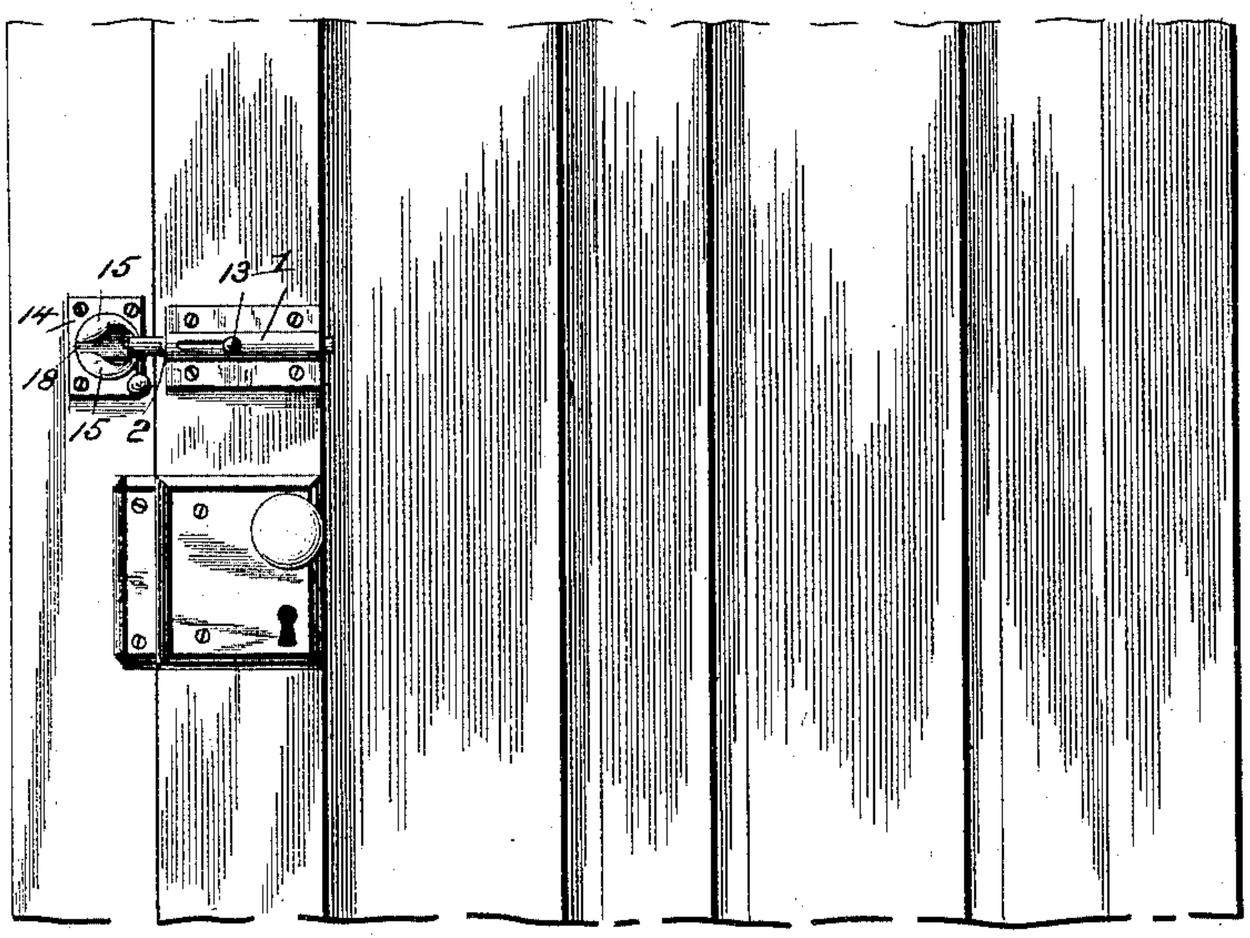


Fig. 2.

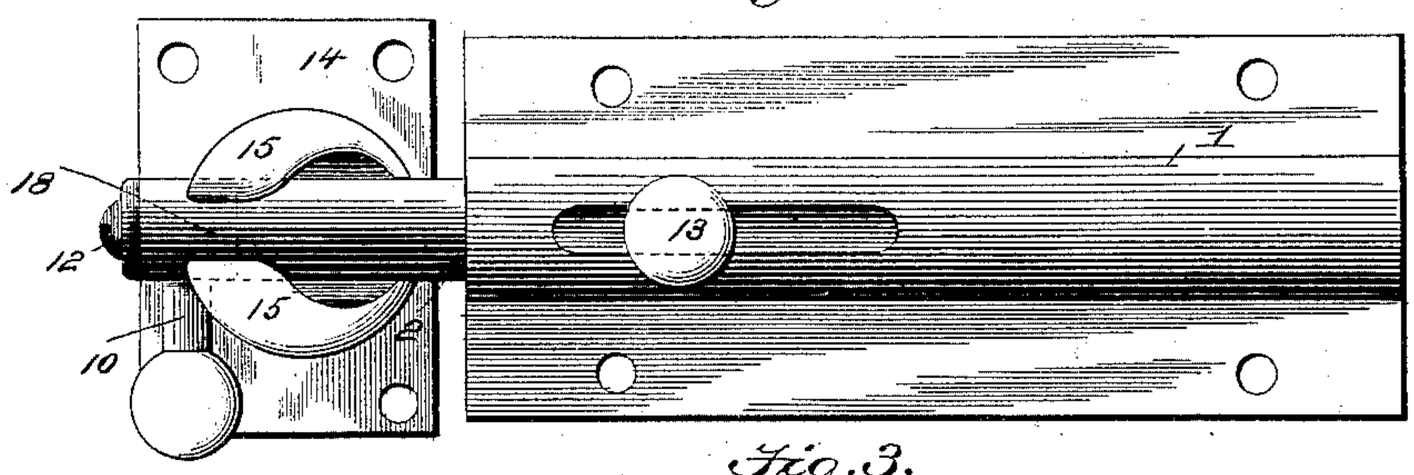


Fig. 3.

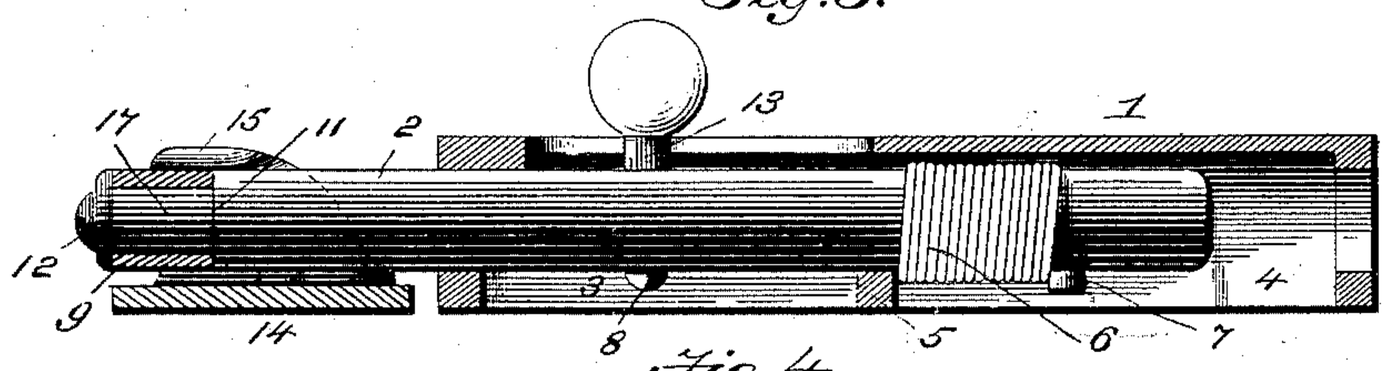
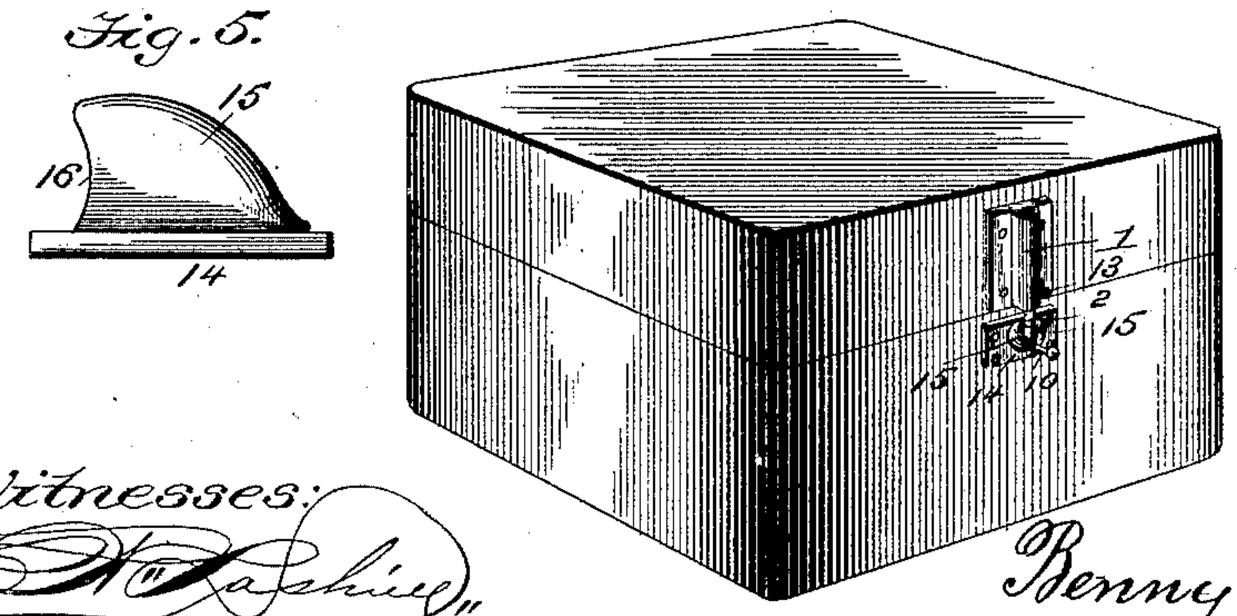


Fig. 4.

Fig. 5.



Witnesses:
"W. Lashley"
F. Wm. McKenna.

Inventor.
Benny Bernstein
By. Wm. A. Brereton
Attorney.

UNITED STATES PATENT OFFICE.

BENNY BERNSTEIN, OF NEW YORK, N. Y.

SPRING-BOLT.

SPECIFICATION forming part of Letters Patent No. 475,922, dated May 31, 1892.

Application filed November 20, 1891. Serial No. 412,538. (No model.)

To all whom it may concern:

Be it known that I, BENNY BERNSTEIN, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Spring-Bolts for Doors, &c.; 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.

This invention relates to improvements in bolts for doors and other similar purposes, such as the ends of packing-cases, jewel-boxes, cabinets, and the like; and it has for its object to provide a device of simple and inexpensive construction which can be readily applied and operated and which will securely hold the door or lid when closed. These objects are attained by the means illustrated in the accompanying drawings, in which like reference-numerals indicate like parts in the several figures.

In the accompanying drawings, forming part of this specification, Figure 1 represents an elevation of a bolt and keeper upon a door, the same being in its unlocked position. Fig. 2 represents a front elevation of the bolt and keeper detached, the parts being in their locked position. Fig. 3 is a longitudinal sectional view of the bolt and keeper, the same being in their locked position. Fig. 4 is a view in perspective of a box or cabinet supplied with my locking device, and Fig. 5 is an edge view of the keeper.

The invention consists in an improved combination and arrangement of the parts of the bolt and keeper, as more fully set forth hereinafter, and specifically claimed.

Referring to the drawings, the reference-numeral 1 indicates the barrel in which the bolt-bar 2 is adapted to slide. The said barrel is formed with lateral flanges pierced or formed with openings for the screws, by which it is fastened to its seat upon the article to which it is to be attached. The barrel below is formed with two longitudinal recesses 3 4, the partition 5 between the recesses being bored or provided with a suitable opening for the passage of the bolt-bar.

The numeral 6 indicates a spiral spring located in the recess 4 and surrounding the bolt-bar. The said spring bears at one end against the partition 5 and at the other end against a projection or screw 7, fastened in the bolt-bar, or such spring may be otherwise arranged so as to react the bolt when shot. The bolt-bar is also provided with a stop or projection 8, which limits its backward movement. The forward end of the bolt-bar is contracted, as at 17, and provided with a sleeve 9, having a weighted depending arm 10, which is held against the shoulder 11 on the bolt-bar by means of a screw 12 or otherwise, so as to abut closely against the shoulder, but turn freely on the contracted portion 17, before mentioned. The barrel is slotted longitudinally, and through said slot projects a stud 13, having a knob at its end by means of which the arm may be moved to shoot the bolt-bar.

The numeral 14 indicates the keeper, which consists of a flat plate having openings for fastening screws. The said keeper is provided with lugs or open lips 15, which are curved upwardly from the edge of the plate, as shown in Fig. 5, which sets next to the forward edge of the bolt-barrel to the opening 18 between the lips, and this opening between the lips is of such size relative to the weighted arm 10 as to permit the said arm to pass freely therethrough, but of less width than the diameter of the bolt-bar 2, so that said bar cannot pass out between said lips and permit the parts to be accidentally opened. The said lips are also curved at their rear portion to form a seat 16 for the weighted arm 10 when the bolt-bar is locked and prevent accidental unlocking.

The operation of my invention will be readily understood in connection with the above description. To lock the bolt, it is pushed forward, as usual, by the knob of stud 13, the bolt-bar entering the mouth of the keeper and the weighted arm 10 riding upon the curved lips 15 thereof, and when said arm has passed said lips it falls, and, being drawn backward by the spring, when released is held by the curve 16 in the lower lip of the keeper on the side opposite that at which it entered. To unlock the parts, the weighted arm is turned upward until on a line with the opening between the lips, when the tension of the spring draws it automatically back.

The mouth of the keeper is somewhat larger

than the bolt-bar, so that even should the door sag slightly the bolt-bar will enter the mouth of the keeper and be directed to its locking-seat, and while the mouth of the keeper is made larger relatively than the bolt-bar the opening at the rear of such keeper is only slightly larger than the bolt-bar, so that a snug fit is assured.

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

1. The combination, in a fastening for doors, box-lids, &c., of a bolt-barrel, the bolt-bar adapted to move longitudinally in said barrel, the spiral spring holding the bolt normally backward, the weighted arm swinging on the outer end of the bolt, and the keeper having open curved lips, the whole adapted to be operated substantially in the manner and for the purposes specified.

2. The combination, in a fastening for doors, box-lids, &c., with the keeper having curved open lips, of a spring-reacted bolt carrying at its end a swinging weighted arm adapted to automatically ride upon the lips of the keeper and fall behind the same when effecting a fastening.

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

BENNY BERNSTEIN.

Witnesses:
SAMUEL LISBERGER,
WM. H. BRERETON.