No. 618,895. Patented Feb. 7, 1899.

J. J. MUNDAY.

LATCH FOR SLIDING DOORS, &c.

(Application filed Aug. 18, 1898.)

(No Model.)

Fig. 1.

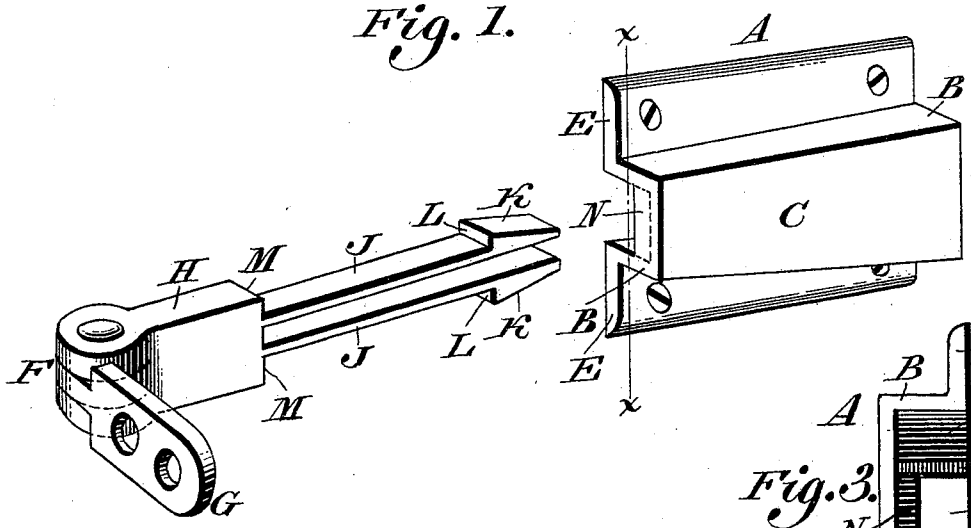


Fig. 3.

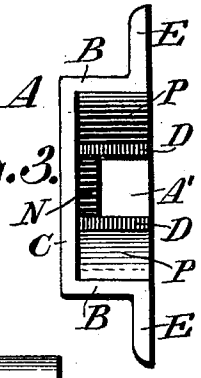


Fig. 2.

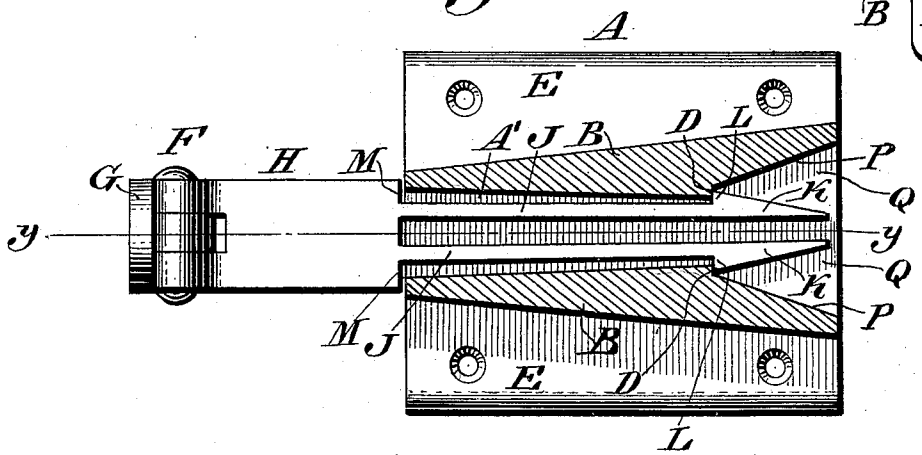
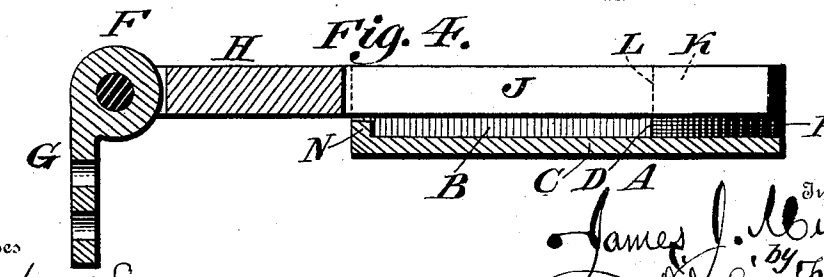


Fig. 4.



Witnesses
P. F. Eagle.
C. D. McKay.

Inventor
James J. Munday.
by Underwood & Fairbanks
Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JAMES J. MUNDAY, OF PHILADELPHIA, PENNSYLVANIA.

LATCH FOR SLIDING DOORS, &c.

SPECIFICATION forming part of Letters Patent No. 618,895, dated February 7, 1899.

Application filed August 18, 1898. Serial No. 688,859. (No model.)

To all whom it may concern:

Be it known that I, JAMES J. MUNDAY, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Latches or Bolts for Gates, Doors, &c., which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a latch or bolt formed of a keeper with a shoulder therein, and a dog with a nose adapted to enter said keeper and engage with the shoulder thereon, thus connecting the dog with the keeper, the latter having on its inner face a recess leading from said shoulder, whereby the nose of the catch is accessible, so that it may be disengaged from said shoulder, permitting the dog to be removed from the keeper, the construction of parts being hereinafter described, and the novel features of the invention pointed out in the claims which follow the specification.

Figure 1 represents a perspective view of a latch or bolt embodying my invention, the parts of the same being separate. Fig. 2 represents a partial side elevation and partial section on line *x x*, Fig. 1. Fig. 3 represents an end view of the keeper. Fig. 4 represents a section on line *y y*, Fig. 2.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates an open-ended keeper formed of the sides B and the face-plate C, producing a hollow body, on the walls of whose bore A′ are the shoulders D, said body having the feet E, by which the keeper may be attached to the frame of a cellar-window, a gate, a cupboard, or other door or similar object to be secured.

F designates a knuckle, one leaf G of which is adapted to be screwed or otherwise secured to such window, gate, door, &c., and the other knuckle H has projecting therefrom the resilient dogs J, on whose outer ends are the noses K, formed with shoulders L, adapted to engage on shoulders D of the keeper.

At or about the place of junction of the dogs with the knuckle H are the shoulders M, which when the dogs are within the keeper limit the inward motion of the same, said shoulders then abutting against the adjacent end walls of the keeper, said wall having thereon the inturned lip N, which projects toward the dogs and covers the space at said end not occupied by the dogs, whereby an implement cannot be introduced into the keeper to manipulate the dogs in order to open the same.

Within the keeper, on the end portion opposite to the lip N, are the walls P of the bore thereof, the same diverging from the shoulders D to the end of the keeper, thus forming the flaring recesses Q, which may receive the thumb and forefinger in order to grasp the noses of the dogs and bring them together, thus releasing the shoulders L from the shoulders D and permitting the dogs to be withdrawn from the keeper. It will be noticed that said shoulders D are set back from the terminal of the keeper, so that while the flaring recesses Q may be formed in the bore the noses K may be contained within the keeper, and thus covered by the same.

The operation is as follows, the parts being shown in position, as in Fig. 1: The window or other object is closed and the dogs guided into the keeper, when the noses ride on the inner wall of the bore of the keeper, whereby they are brought together, the dogs J yielding to permit the same. When the dogs have entered into the keeper to the full extent, the shoulders L clear the shoulders D, and the dogs then spring apart, causing the engagement of said shoulders L with said shoulders D and the consequent interlocking of the dogs with the keeper, as most plainly shown in Fig. 2. When it is desired to open the window, door, &c., the thumb and forefinger are inserted in the recesses Q, whereby the noses may be grasped and pinched and brought together, thus clearing the shoulders L from the shoulders D, whereupon the dogs are drawn outwardly from their noses riding through the bore A′ of the keeper, the dogs remaining in somewhat-closed condition until fully emerged from the keeper, when they assume their normal position, spring apart, so as to be ready for further operation when again introduced into the keeper.

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

1. In a latch of the character stated, a head,

resilient dogs connected at one end with said head, noses at the other end of said dogs and shoulders on said dogs at their places of connection with said head and nose, in combination with a keeper having a bore whose opposite ends are adapted to be embraced by the opposite shoulders of said dogs, shoulders on said bore set back from the terminal of the keeper and walls converging from said shoulder to said terminal.

2. In a latch or bolt of the character stated, a resilient dog, a keeper having a bore therein and a shoulder at the termination of one portion of said bore for the engagement of the nose of said dog, a head from which said dog projects, and a shoulder at the place of junction of said dog and said head, said keeper having at the end adjacent to said shoulders an inturned lip which projects toward said dog, the shoulders of said nose and head being at opposite ends of said resilient dog.

3. A head, dogs projecting therefrom having noses thereon, shoulders at the places of junction of said noses with said dogs, and shoulders at the places of junction of said dogs with said head, in combination with a keeper having a bore therein, shoulders at the termination of a portion of said bore, and walls converging from said shoulders to the end of the keeper, the opposite end of said keeper having an inturned lip which projects from the face-plate of the keeper to said dogs, said parts being combined forming an improvement in a latch or bolt of the character stated.

JAMES J. MUNDAY.

Witnesses:
WM. C. WIEDERSHEIM,
JOHN A. WIEDERSHEIM.