No. 691,180. Patented Jan. 14, 1902.

E. F. ROGERS.

LOCK.

(Application filed July 5, 1900.)

(No Model.)

FIG. 1.

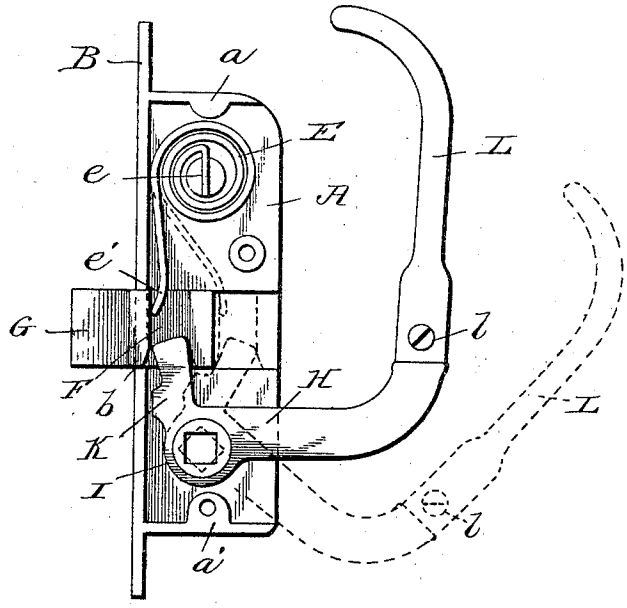


FIG. 2.

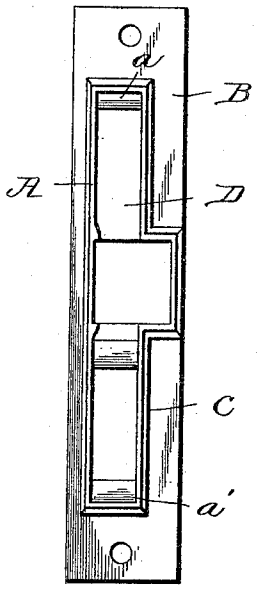


FIG. 7.

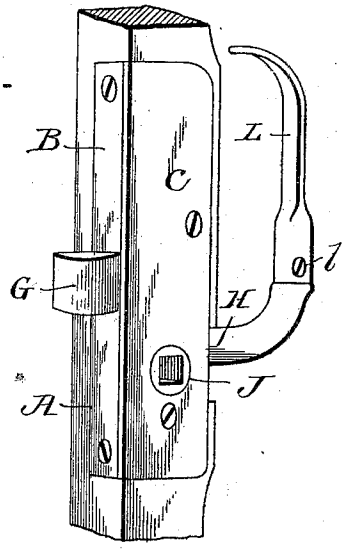


FIG. 5.

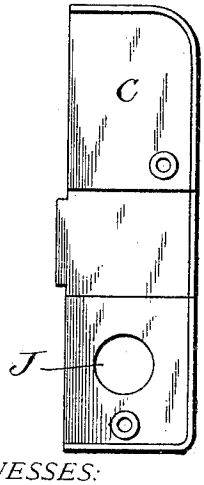


FIG. 6.

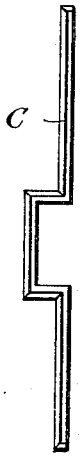


FIG. 3.

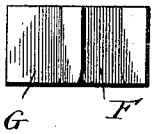
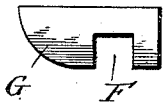


FIG. 4.



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UNITED STATES PATENT OFFICE.

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LOCK.

SPECIFICATION forming part of Letters Patent No. 691,180, dated January 14, 1902.

Application filed July 5, 1900. Serial No. 22,501. (No model.)

To all whom it may concern:

Be it known that I, EDWIN FORT ROGERS, a citizen of the United States, residing at 329 Arch street, Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Locks, of which the following is a specification.

My invention relates to locks, and particularly to those for carriage-doors, and has for its object to render the same more simple in construction and more efficient in operation.

Reference being had to the accompanying drawings, which form a part of this application, Figure 1 represents a side sectional elevation of my improved lock with the covering-plate removed, showing the relative positions of the bolt, (which is in dotted lines,) the spring, and the lever, the at-rest position in full and the operative position in dotted lines. Fig. 2 represents a plan view of the casing with the mechanism removed. Figs. 3 and 4 represent front and side elevations, respectively, of the bolt provided with a slot. Fig. 5 represents a plan view of the covering-plate, and Fig. 6 a side view thereof. Fig. 7 is a perspective view of my improved lock in position.

Similar letters of reference designate corresponding parts throughout the several views.

In the drawings, A designates a plate having at each end lateral projections *a a*, the said plate being affixed or forming a part of front plate B, extending at right angles thereto and provided with a slot *b*, through which the bolt operates, and C, Fig. 5, designates the covering-plate, which parts when assembled form the casing or receptacle D, (shown in Fig. 2,) which contains the mechanism of the lock. Within and at one end of this receptacle D is located a spiral spring E, one end of which is secured to the side of the casing at *e* by suitable means, while the other end *e* of said spring enters the slot F in the bolt G, located, preferably, midway of the casing, and at the other end of the casing is located the lever H, the hub I of which is journaled in bearing J in the plate C of the casing, and a like bearing in plate A. (Not shown.) The tongue K of this lever extends downward and enters the opposite side of the slot F in the bolt G, the operation being that when the lever is raised the tongue K withdraws the bolt, and the door is opened, as shown in dotted lines, Fig. 1, the releasing of said lever permitting the spring E to cause the bolt to resume its outward position, as shown in full lines in said figure. The advantages of this construction are obvious. By placing the spring and the lever on opposite sides of the bolt and operating them in the same slot from both sides of said bolt thereof serves to cause the bolt to have a direct and true movement in and out and to respond instantly to the operation of the lever and spring.

In order to enhance the easy movement of the lever upon the bolt, the side of the slot F that receives the lever's tongue is tapered, as shown, and to permit of the easy and expeditious attachment of the lock the handle L of the lever is detachable from same, as shown at *l*.

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

The combination of a sliding latch with a casing, a spring secured to the casing above the latch one end of such spring engaging an opening in the upper side of said latch; a bell-crank lever pivoted independently at the opposite side of said casing, its short arm engaging with a recess in said latch for operating it, the other arm of said lever extending through the rear end of the casing; a separate operating-handle, detachably secured to the outer end of the lever for operating the latch from the inside of the door, and means for operating said bell-crank lever from the outside of the door, substantially as set forth.

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

EDWIN FORT ROGERS.

Witnesses:

JAS. H. WOLFE,

G. T. TURNER.