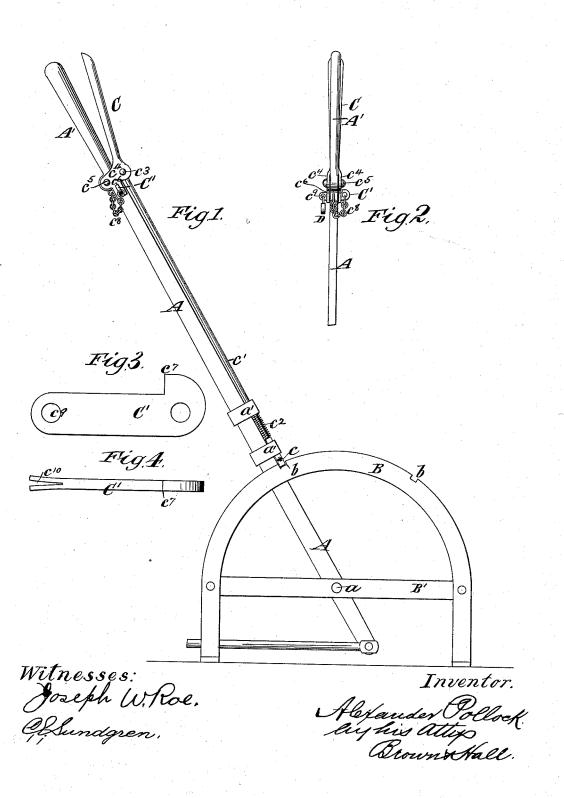
A POLLOCK.

SWITCH LOCK.

No. 383,654.

Patented May 29, 1888.



UNITED STATES PATENT OFFICE.

ALEXANDER POLLOCK, OF NYACK, NEW YORK.

SWITCH-LOCK.

SPECIFICATION forming part of Letters Patent No. 383,654, dated May 29, 1888.

Application filed February 24, 1888. Serial No. 265,141. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER POLLOCK, of Nyack, in the county of Rockland and State of New York, have invented a new and useful 5 Improvement in Locks for Switch-Levers and other Operating Levers, of which the following is a specification.

The lever for operating switches, signals, and analogous devices has usually combined to with it a sliding catch bolt which is actuated by a spring to engage locking notches in a bar or segment concentric to the lever-fulcrum, and this sliding catch-bolt is withdrawn from the notches by means of a catch-lever pivoted to 15 the operating-lever and which has the catchbolt connected with it.

The object of my invention is to provide for locking the catch lever, and therefore the slid. ing catch-bolt with which it is connected, by a 20 key or bolt inserted directly through the catchlever; and the invention consists in a novel construction whereby this result is attained.

In the accompanying drawings, Figure 1 is an elevation of a switch-stand embodying my 25 invention. Fig. 2 is an edge view of the upper portion of the operating lever and the parts which embody my invention. Fig. 3 is a side view, upon a larger scale, of the locking bolt or key which may be employed; and Fig. 4 is an 30 edge view of a locking bolt or key of modified form, which may also be employed, if desired.

Similar letters of reference designate corre-

sponding parts in all the figures.

A designates the operating-lever, which is 35 fulcrumed at a, and concentric with the fulcrum a is a segmental locking-bar, B, having in it notches b. The segmental locking bar B has its ends prolonged downward and connected by a cross-bar, B', which receives the lever 40 fulcrum or pivot a, and the two members B B' form the stand for the operating-lever A.

c designates a sliding eatch-bolt which is upon the lower end of a rod, c', lying along the edge of the operating-lever A and sliding in 45 suitable guides, a'. Applied to the rod c', for forcing the bolt c downward, is a spring, c^2 , and said bolt may be retracted or withdrawn from the notches b by a catch-lever, C, which is at the side of the handle A' of the operating-50 lever A. The rod c' is jointed at c³ to the catch-lever C, and said catch-lever has upon it

ating-lever A, as best shown in Fig. 2, and which receive through them the pivot or fulcrum c5, whereby the catch-lever C is supported 55 upon the operating-lever. To withdraw the locking-bolt c and move the operating-lever, the catch-lever C and the handle A' of the operating lever are grasped in the hand, and the catch-lever C is drawn toward said handle, 60 so as to withdraw the bolt c, and then the operating lever A may be swung upon its ful-

According to my invention the cheeks or flanges c4 of the catch-lever C have formed in 65 them a mortise, c⁶, and through this mortise is inserted a locking bolt or key, C', which engages with the operating lever A. As here represented the locking bolt or key C' not only passes through the mortise c^6 in the cheeks or 70 flanges c4, but also passes directly through a mortise in the operating lever A. Consequently when the parts are in the position shown in Figs. 1 and 2, and the locking bolt or key C' is inserted through the mortise c^6 in 75 the cheeks c4, the catch lever C cannot swing upon its fulcrum e^5 , but is locked and held in rigid relation to the operating-lever A, and therefore the catch-bolt c cannot be withdrawn. When it is desired to operate the lever A, the 8c locking bolt or key C' is first withdrawn, and then the catch lever C is free to swing upon its fulcrum c^5 and to thus raise the catch-bolt c out of the locking-notch b.

The locking bolt or key is best shown in 85 Fig. 3. It has at one end a shoulder, c^{\dagger} , forming a head, and by a chain, c⁸, attached to this head, the said bolt or key may be hung from

the operating lever A.

For greater security, where there is danger 90 of the locking bolt or key C' being withdrawn by malicious persons, a padlock, D, may be inserted through an eye, co, in the end of the key or bolt C', opposite its head; but where no danger is feared from malicious or meddlesome 95 persons the smaller end of the locking bolt or key C' may be split, as shown at c^{10} in Fig. 4, so as to prevent it from accidentally working out of place after it has been inserted.

I am aware that prior to my invention vari- 100 ous devices applied to the rod c' of the catchbolt c have been employed for locking said rod against longitudinal movement, and therefore cheeks or flanges c4, which embrace the oper- I do not claim, broadly, as of my invention

means for locking the rod c' and the catch-lever Cagainst movement relatively to the operating-lever A. According to my invention I apply the locking-bolt C' directly to the catch-5 lever at a point near its fulcrum c⁵; and I desire to limit my invention to a catch-lever having cheeks or flanges which embrace the operating-lever and the locking key or bolt inserted through such cheeks or flanges and engaging to the operating-lever.

What I claim as my invention, and desire to

secure by Letters Patent, is-

The combination, with the operating-lever A and its notched locking-segment B, of the

catch-bolt c, the catch-lever C, having cheeks 15 which embrace the operating-lever and through which the catch-lever is pivoted to the operating-lever, and a locking key or bolt, as C', inserted through said cheeks and engaging the operating-lever, whereby the swinging of the 20 catch-lever on its pivot to withdraw the catchbolt is prevented, substantially as herein described.

ALEX. POLLOCK.

Witnesses: C. Hall, Fredk. Haynes.