

(No Model.)

E. HILLERY.

LOCK FOR RAILROAD SWITCH STANDS.

No. 316,545.

Patented Apr. 28, 1885.

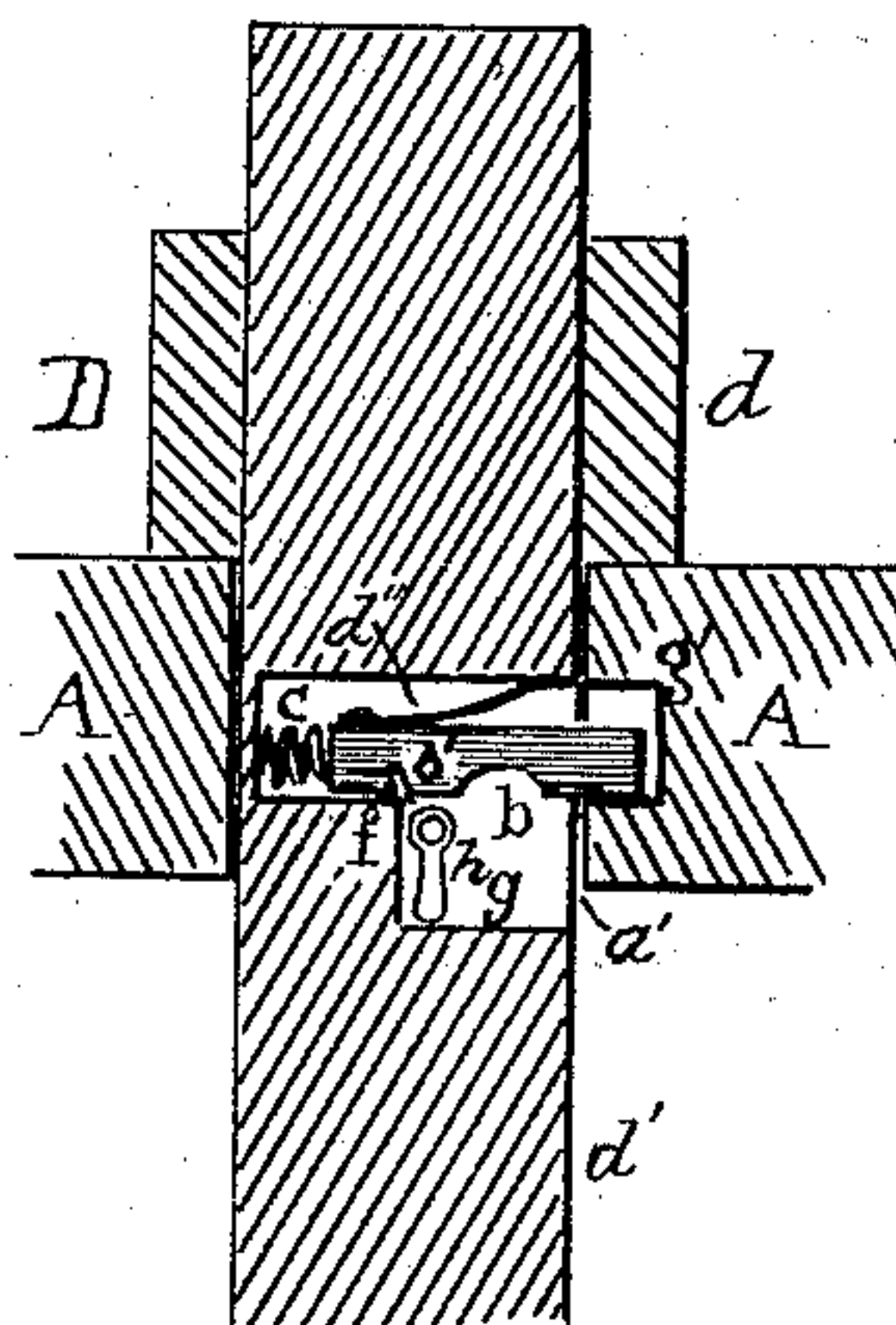
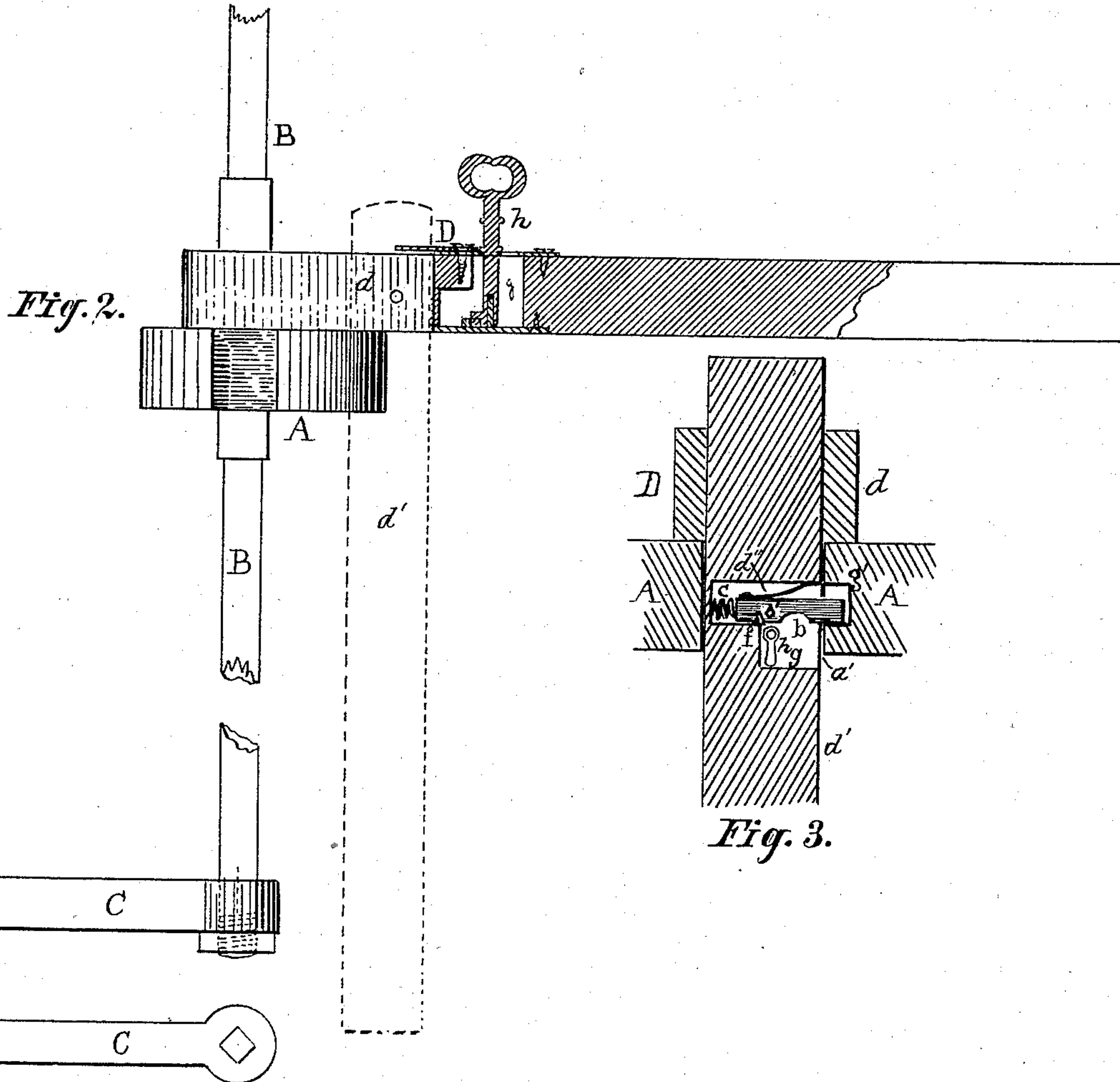
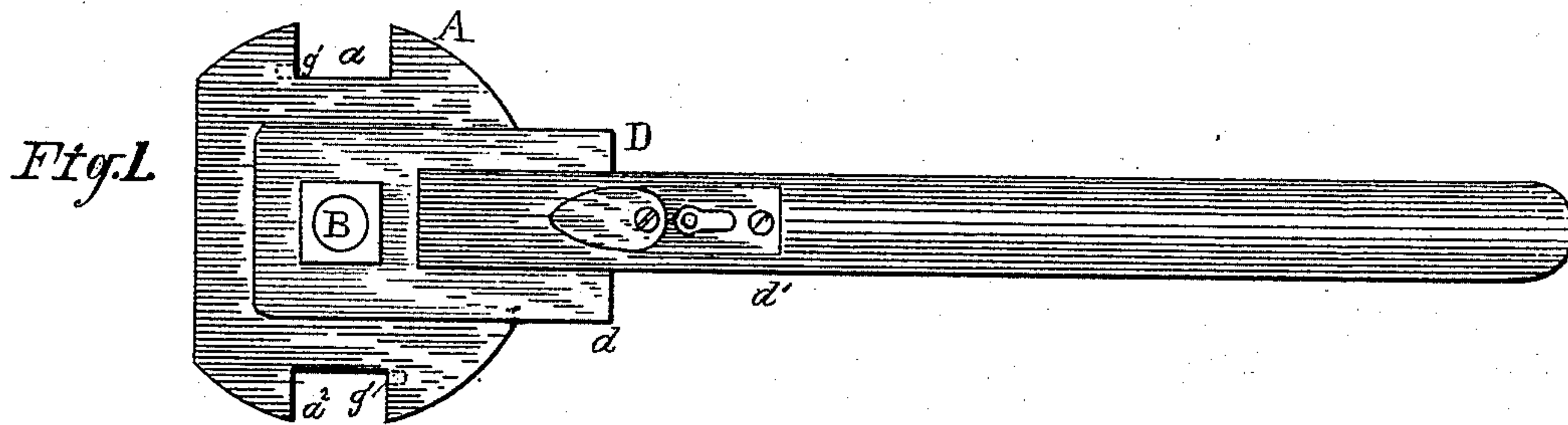


Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

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LOCK FOR RAILROAD SWITCH-STANDS.

SPECIFICATION forming part of Letters Patent No. 316,545, dated April 28, 1885.

Application filed October 6, 1884. (No model.)

To all whom it may concern:

Be it known that I, EDWARD HILLERY, a citizen of the United States, residing at Waseca, in the county of Johnson and State of Kansas, have invented certain new and useful Improvements in Locks for Railroad Switch-Stands, of which the following is a specification, reference being had to the accompanying drawings.

Figure 1 is a top view showing the operating-lever in a horizontal position. Fig. 2 is a side view showing the operating-lever in both horizontal and vertical positions, the latter being in the position it has when locked, and is indicated by dotted lines. Fig. 3 is a sectional detail taken through the lock transverse the operating-lever, showing the lock closed.

This invention relates to a locking mechanism to be used with railway switch-stands; and it consists in the construction hereinafter set forth.

In the annexed drawings, the letter A indicates the switch-stand, only the horizontal top being shown, that being sufficient to show the connections. Through this passes the usual switch-rod, B, having the arm C at the bottom for connection with the switch. This top A is made with several vertical notches, a a' a'' , &c., at its edge, there being a number corresponding to the number of positions the switch is to have.

Secured to the rod B, just above the top A, is the operating-lever D, extending horizontally from the rod B and just over the top A. This lever D consists of a main portion, d , which is rigidly held to the rod B, and a handle, d' , which is hinged to the main portion d , so that such handle can be turned down; but when lifted up the handle can only be raised far enough to align itself with the portion d , and thus be in a horizontal position. At its junction with portion d the handle d' is recessed, as at g , in which recess is placed a lock, such recess g being beyond the end of the portion d . This lock consists of a bolt, b , having the springs c and d'' for holding it, as indicated. This bolt also has a notch, b' , for engagement with the rib f when the device is locked.

In the top A, at the side of each notch a a' a'' , &c., is made a recess, g' , for catching the bolt b .

h is a key adapted to the lock.

In use the handle d' is held horizontally until the rod B is turned the proper distance and the switch is at the proper position. The handle d' is then turned down into the notch at that point, and the spring c shooting the bolt b into recess g' , and the spring d'' pressing the said bolt b so that the rib f catches in the notch b' , the handle is locked against accidental or intentional displacement until the key is used to retract the bolt. Thus the two springs act upon the bolt b , to throw it into the recess g' , and d'' , to hold it on the rib f . The lever is unlocked by retracting the bolt b with the key h . This device thus secures the switch at its proper point, and the switch cannot be moved until the lock is released. The locking is done automatically. As soon as the handle is turned down into the notch the bolt shoots, and there is no delay in turning bolts or slipping pins. Besides, only the proper person with the key can loosen the lever. The lock, being in the lever, is protected from weather, and also from being tampered with.

Having described my invention, what I claim is—

1. The switch-stand A, having in its top the vertical notches a a' a'' and recesses g' at such notches, and the switch-rod B, passing through such top, in combination with the lever D, secured to the rod B, and consisting of the two portions d d' , hinged together, and a bolt, b , located in the handle portion d' at the top of the stand, as set forth.

2. The switch-stand A, having in its top the vertical notches a a' a'' and recesses g' at such notches, and the switch-rod B, passing through such top, in combination with the lever D, secured to the rod B, and consisting of the two portions d d' , hinged together, the handle portion d' having the recess g and the rib f in such recess, and the bolt b having the notch b' and the springs c and d'' located in said recess g , all constructed, combined, and arranged as and for the purpose set forth.

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

EDWARD HILLERY.

Witnesses:

W. W. CARR,
M. S. GLYNN.