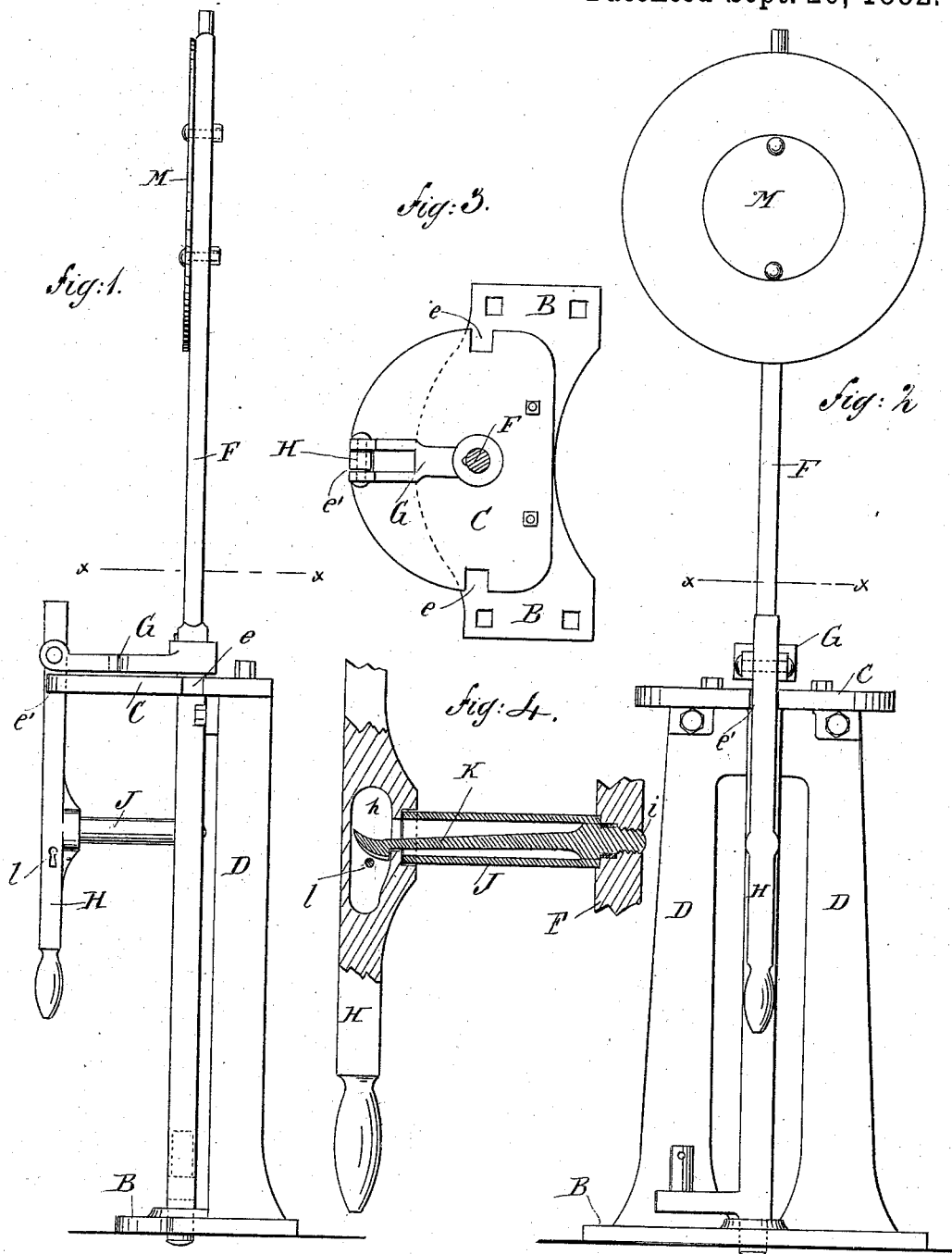


(No Model.)

D. O'CONNER.  
SWITCH STAND AND LOCK.

No. 265,132.

Patented Sept. 26, 1882.



WITNESSES:

*Chas. Nida*  
*L. Sedgwick*

INVENTOR:

*D. O'Connor*

BY

*Allen H.*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

DANIEL O'CONNOR, OF LITTLE ROCK, ARKANSAS.

## SWITCH STAND AND LOCK.

SPECIFICATION forming part of Letters Patent No. 265,132, dated September 26, 1882.

Application filed April 18, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, DANIEL O'CONNOR, of Little Rock, in the county of Pulaski and State of Arkansas, have invented a new and useful Improvement in Switch Stands and Locks, of which the following is a full, clear, and exact description.

My invention relates to devices for changing the position of the target used for signaling purposes.

The invention consists in a novel construction, arrangement, and combination of a base or stand, a vertical crank shaft carrying the target, a sleeve, a latch, and a lever, whereby several advantages are obtained, as hereinafter more particularly described.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side view of an apparatus embodying my improvements. Fig. 2 is a view at right angles to Fig. 1. Fig. 3 is a horizontal section taken in the line *xx*, Figs. 1 and 2. Fig. 4 is a vertical section of a portion of the lever and shaft and the sleeve and latch.

The switch-stand is made of cast or wrought iron or steel, having a base-plate, B, top plate, C, and lateral wings or fins D. The top plate, C, is provided with notches, as here shown. The plate has two notches, *e*, one at each side and in line with the wings D, and a third notch, *e'*, at the front of the plate, in which front notch the lever-bar H is engaged. The vertical target shaft or standard F works in bearings in the top plate, C, and base-plate B, so that it may be turned therein. To the shaft F is attached a horizontal arm, G, to the outer end of which is pivoted a bar, H, thus forming a hinged or jointed lever. This lever G H is above the plate C, and when the bar H hangs down it engages with one of the notches in the plate. Below the top plate, C, a sleeve or tube, J, is attached to the shaft F, parallel with the arm G, by means of a screw-threaded tang, *i*, screwed into said shaft. Inside of this sleeve or tube J is secured by welding the inner end of a spring-latch, K, the outer end of which projects and engages with a recess, *h*, in the bar H, which recess also engages with the outer end of the sleeve or tube J, as shown in Fig. 4. The recess *h* is provided with a key-hole, *l*, to admit of the insertion of a key to raise the latch K.

The operation is as follows: To reverse the target M, the latch K is raised by means of a key, the bar H is pulled out and raised clear of its notch *e'*, and the shaft F is rotated by moving the bar H in one direction or the other. When the desired position is reached the bar H is dropped, so as to engage with opposite notch, *e*, and allow the latch K and sleeve or tube J to engage with the recess *h*, and the apparatus is then locked. The switch-stand being secured with wings D and side notches, *e*, in line with the rails, when the bar H is engaged in the outer notch, *e'*, as shown in Figs. 1, 2, and 3, the edge of the target M will be presented to view from either direction along the track, and when bar H is locked in either one of the side notches, *e*, the reverse and differently-colored sides of the target will be visible from either direction along the rails, as may be desired.

The advantages of my invention are: It is cheap and simple in construction, easily operated, and not liable to get out of order. It may be allowed to remain locked or unlocked at pleasure, and when locked it cannot be unlocked without a key, and it may be arranged to hold the target-shaft at any desired number of positions.

The invention may be applied to a switch-stand already in use by attaching a collar to the target-shaft F and attaching the sleeve J and latch K to said collar.

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

1. The combination, with the base B, the notched top plate, C, and the target shaft or standard F, of the arm G, the bar H, pivoted to said arm, and means, substantially as shown and described, for locking said bar to the target-shaft, as set forth.

2. The combination, with the sleeve or tube J and spring-latch K, of the bar H, provided with the recess *h*, as shown and described, for the purpose specified.

3. The combination, with the sleeve or tube J, provided with the screw-threaded tang *i*, of the spring-latch K, welded to said sleeve, as herein shown and described.

DANIEL O'CONNOR.

Witnesses:

WM. S. THOMAS,  
J. G. GLOECKLER.