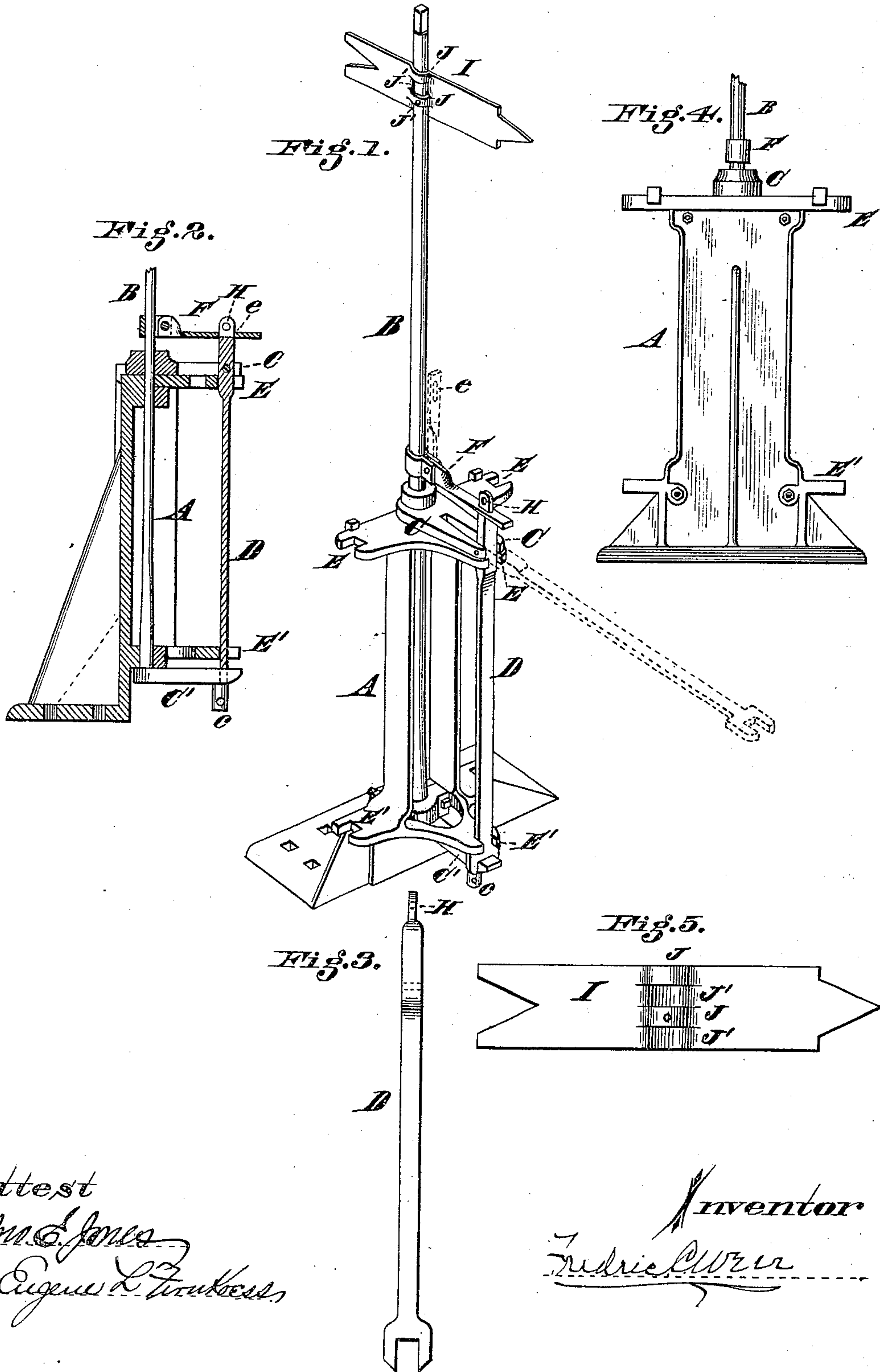


(No Model.)

F. C. WEIR.
SWITCH STAND.

No. 249,706.

Patented Nov. 15, 1881.



Attest
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UNITED STATES PATENT OFFICE.

FREDRIC C. WEIR, OF CINCINNATI, OHIO.

SWITCH-STAND.

SPECIFICATION forming part of Letters Patent No. 249,706, dated November 15, 1881.

Application filed August 18, 1881. (No model.)

To all whom it may concern:

Be it known that I, FREDRIC C. WEIR, of Cincinnati, Hamilton county, State of Ohio, have invented a new and useful Improvement in the Mechanism of Switch-Stands and Targets for Operating Switches, of which the following is a specification.

Figure 1 is a perspective view of my invention. Fig. 2 is a broken central section of same. Fig. 3 is a detailed view of the wrench-shaped end adjusting-lever. Fig. 4 is a broken rear elevation of Fig 1. Fig. 5 is a detail view of target of same.

The object of my invention is to furnish a device for operating and positively locking the crank of a switch-stand as close as possible to the crank itself without having to lift the crank and shaft, with its connections, and thus prevent the liability of the rails being sprung out of place laterally while the wheels are passing over them; also, to furnish a simple and effective device for locking said locking-lever.

The object of the invention is attained by using a column or frame, A, supporting a vertical shaft, B, and crank C', and it having the crank-arm extended beyond the crank pin sufficiently to permit of the wrench or fork shaped end adjusting-lever D dropping astride it, and at the same time dropping into notches E E' provided for it and cast into the column or frame at the different points to which the switch is arranged to be turned, both at the top of the stand and at the bottom, as close to the crank as is practicable. By this means I am enabled to provide against and effectually prevent a possibility of the rails being sprung sidewise.

At the top of the stand I provide a jointed latch, F, one end of which is secured to the vertical shaft B and the other having a slot, e,

at the proper distance, so that when the locking-lever is locked over the crank this locking-latch can be dropped down onto the top of said locking-lever, and a padlock passed through the top of said lever at H, effectually locking the switch against its movement by parties not authorized, as well as against the spring of the crank by the passage of trains over it.

The manufacture of the target I may be simplified by forming from the single piece of metal of which the target is made the necessary corrugations to permit of one portion, J, of the metal passing around one-half of the vertical shaft B, and the other portion, J', extending around the other half of said shaft B, thus avoiding a special forging that is usually made and riveted to the target for holding it in position.

Having described my invention; what I claim is—

1. A switch-stand having the pivoted adjusting-lever adapted to lock with the bottom crank and simultaneously latching into the base of the switch-stand, substantially as specified.

2. A switch-stand having an adjusting-lever arranged to drop into notches provided for it in the body of the switch-stand, and having an adjustable latch, one end of which is secured to the vertical shaft of the switch-stand and the other end engaging with the lever in such a manner as to be secured by a padlock.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

FREDRIC C. WEIR.

Witnesses:

JOHN E. JONES,
CORNELIUS BYL.