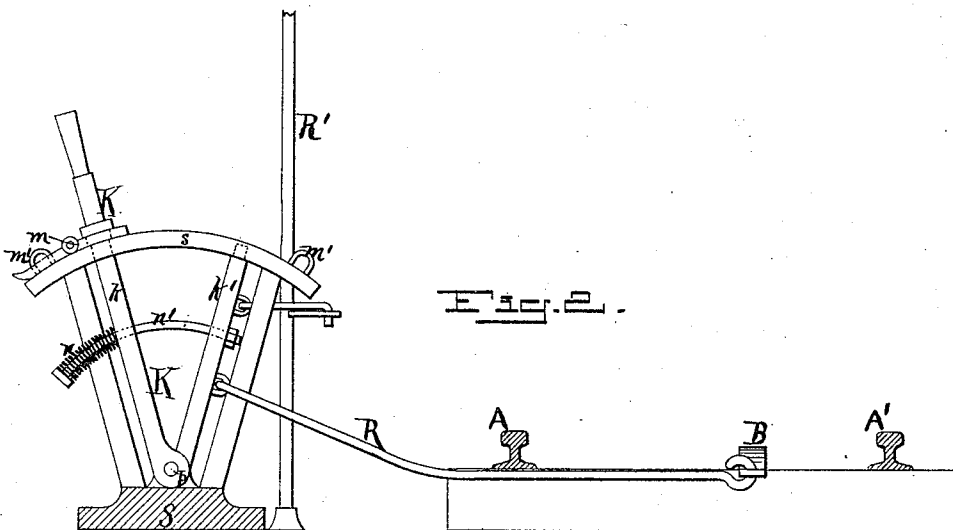
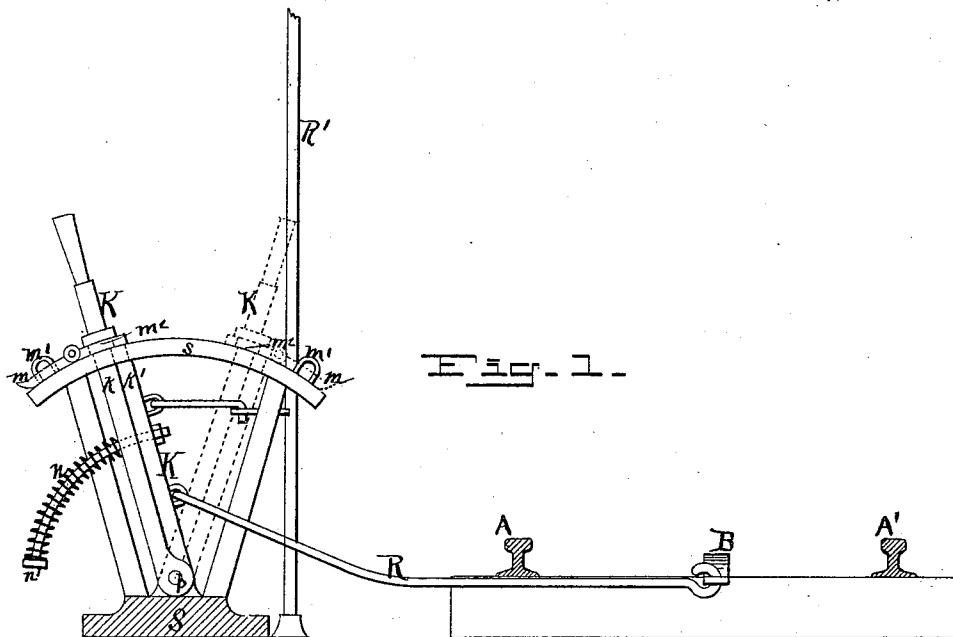


(No Model.)

H. McL. ABERNETHY.
SWITCH STAND.

No. 463,413.

Patented Nov. 17, 1891.



WITNESSES:

John Revell
S. C. Connor

INVENTOR
Harry McL. Abernethy
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Howson and Howson
his ATTORNEYS

UNITED STATES PATENT OFFICE.

HARRY MCLEAN ABERNETHY, OF NEWARK, OHIO, ASSIGNOR OF ONE-HALF
TO HUGH H. ABERNETHY, JR., OF JERSEY CITY, NEW JERSEY.

SWITCH-STAND.

SPECIFICATION forming part of Letters Patent No. 463,413, dated November 17, 1891.

Application filed August 25, 1891. Serial No. 403,694. (No model.)

To all whom it may concern:

Be it known that I, HARRY MCLEAN ABERNETHY, a citizen of the United States, and a resident of Newark, Licking county, Ohio, have invented an Improved Switch-Stand, of which the following is a specification.

The object of my invention is to construct a simple and strong form of automatic or yielding switch-stand which will permit the points to yield to allow a train to pass the closed switch.

In the accompanying drawings, Figure 1 is a vertical section through a part of the stand and the rails and showing the switch-lever in full lines in one extreme position and in dotted lines in its other extreme position. Fig. 2 is a similar view showing the yielding part of the lever when pulled over from its normal position.

In the views, A and A' indicate the two main rails, and B indicates an intermediate lever controlling the movable switch-points, which may be of any suitable or well-known construction, and therefore have not been shown. I prefer, however, to employ the switch mechanism which forms the subject of a separate application for a patent filed by me March 28, 1891, Serial No. 386,843. This lever B is connected through a suitable rod R with the handled operating-lever K, pivoted at one end at *p* to the fixed switch-stand S. The upper part of this switch-stand S is provided with a curved and slotted top *s*, through which the handled switch-lever K may be swung upon its pivot from one extreme position shown by full lines in Fig. 1 to the other shown by dotted lines in the same figure. The upper part of this lever is provided with a hinged and swinging hoop *m*, which may be made to engage with a staple *m'* at either end of the upper curved part of the stand, according to the position to which it may be moved. For this purpose the hinged part *m* of the hoop is carried by a collar *m*², free to be turned upon the handle of the operating-lever, as will be readily understood. The operating-lever may thus be locked in either of its extreme positions with the switch set in either of its two desired positions. This lever K is made in two parts, preferably free to turn independently to some extent upon the same pivot *p*, but with a yielding connection, which

normally will keep the two parts of the lever together, so that the yielding part *k'* will move with the handled part *k*. It is the yielding part *k'* which is connected to the rod R, and, if desired, also, to the signal or lantern post R'. The yielding connection of the part *k'* with the handled part *k* is in the form of a yielding spiral push-spring *n* around a curved bolt *n'*, carried by the yielding part *k'*. This spring *n* is interposed between the back of the handled part *k* of the lever and the head of the curved rod or bolt *n'*. Supposing that when the swinging lever K is locked in the position shown by full lines in Fig. 1, the switch-points are closed and a train coming down the line toward the back of the closed switch, the flanges of the wheels can push the points open, owing to the yielding of the part *k'* of the lever K, as shown in Fig. 2; but as soon as the train has passed the points will close again under the action of the spring *n*, and the yielding portion of the lever K will be restored to the position shown by full lines in Fig. 1.

I claim as my invention—

1. A railway switch-stand having a swinging operating-lever pivoted at one end to the stand, said swinging lever having a locking device connected to one part, while the other is connected to the switch mechanism and a yielding connection between the two parts of the lever.

2. A switch-stand having a handled swinging operating-lever pivoted at one end thereto and provided with a yielding part mounted on the same pivot and connected to the switch mechanism, and means for locking the handled part of the lever.

3. A switch-stand having a handled operating-lever pivoted thereto and provided with a yielding part connected to the switch mechanism, a push spiral spring between the handled part of the lever and the yielding part to normally hold them together, and means for locking the handled part of the lever.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HARRY MCLEAN ABERNETHY.

Witnesses:

J. A. ABERNETHY,
S. ABERNETHY.