J. H. SCHMID.

SWITCH THROWING DEVICE.

APPLICATION FILED JAN. 30, 1912.

**1,067,760.** Patented July 15, 1913.

Fig. 1.

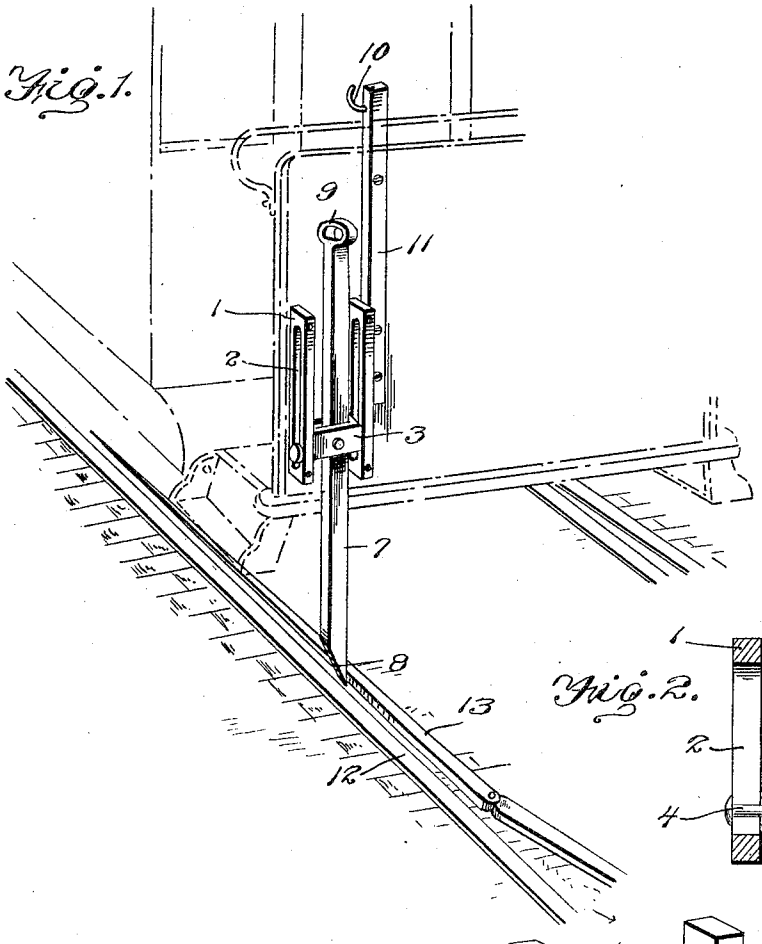



Fig. 2.

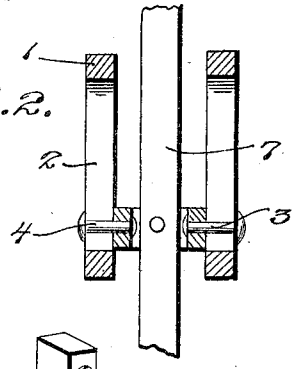
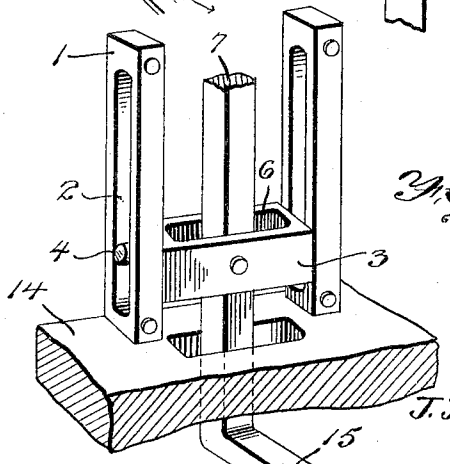



Fig. 3.




Witnesses

Inventor

T. H. Schmid

By

Attorneys.

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

# UNITED STATES PATENT OFFICE.

JOSEPH H. SCHMID, OF ST. LOUIS, MISSOURI.

## SWITCH-THROWING DEVICE.

1,067,760. Specification of Letters Patent. Patented July 15, 1913.

Application filed January 30, 1912. Serial No. 674,407.

*To all whom it may concern:*

Be it known that I, JOSEPH H. SCHMID, citizen of the United States, residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Switch-Throwing Devices, of which the following is a specification.

This invention has relation to devices adapted to be used upon tram and other cars for the purpose of enabling a motorman or operator to throw a switch point without necessitating his getting off of the car.

With this object in view the device is especially designed to be positioned upon the main platform of a car and may be operated manually to bring an operating member into engagement with the switch point so that the said point may be thrown to a desired position, thereby opening or closing a switch, as may be required.

A still further object of the invention is generally to improve this class of devices so as to increase their utility, durability and efficiency.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claim.

For a full understanding of the invention reference is to be had to the following description and accompanying drawing, in which:—

Figure 1 is a perspective view of the switch throwing device applied to the dashboard of a car; Fig. 2 is a vertical sectional view through part of the device as illustrated in Fig. 1; Fig. 3 is still another form of the device applied to a car platform.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawing by the same reference characters.

As shown in Fig. 1 of the drawing, the device is applied to the front side of a dashboard of a car, but it is to be understood that if desired the device may be applied to the rear side of the dashboard. As illustrated in the said figure, the device includes vertically disposed guides 1 having elongated openings 2. These guides are spaced from each other. A block 3 is slidably mounted between the guides 1 and is provided at its ends with pins 4 which pass through the slots 2. The block 3 is provided at a point between its ends with an opening 6 in which is fulcrumed a lever 7. The lower end of this lever is chamfered or pointed as at 8. A handhold 9 is connected with the upper end of the lever 7 and may at times be engaged with a hook 10 which is mounted upon a standard 11 attached to the dashboard of the car. The lever 7 is mounted in the block 3 in a manner so that it may be swung transversely with relation to the track upon which the car to which the appliance is attached moves. The track rails are indicated at 12, while the switch point which is to be operated is shown at 13. When the car approaches the switch point 13 and it is desired to throw the same either toward or away from the track rail 12 the operator disengages the handhold 9 from the hook 10 and permits the lever 7 and the block 3 to descend between the guides 1. When the pointed end of the lever 7 is against the side of the switch point 13, the operator swings the upper portion of the lever 7 so that the switch point 13 is moved toward or away from the track rail 12, as is desired. After the switch point 13 is properly positioned the car proceeds upon its way along the track 12 past the said point and the operator lifts the lever 7 and block 3 by means of the handhold 9 and engages the said handle with the hook 10, whereby the parts are retained in elevated position until again to be used.

As illustrated in Fig. 3 of the drawing, the guides 1 (which are of the same pattern as those described in Figs. 1 and 2) are mounted upon the car platform indicated at 14. In this form of the device the lower end portion of the lever 7 is provided with a forwardly projecting extremity 15 which is adapted to be brought in contact with the side of the switch point 13. In this form of the invention the extremity 15 projects slightly in advance of the forward edge of the platform and consequently the operator standing upon the platform may more readily determine when the lower portion of the lever 7 is in proper contact with the

switch point 13 as the extremity 15 may be more readily observed.

Having thus described the invention, what is claimed as new is:

A switch throwing device comprising a block having an opening, a lever fulcrumed in the opening of the block, pins carried at the ends of the block, and guides having elongated slots which loosely receive the pins.

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

JOSEPH H. SCHMID. [L. S.]

Witnesses:

WILLIAM KUHLMEY,

ROBT. K. RAY.

**Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."**