

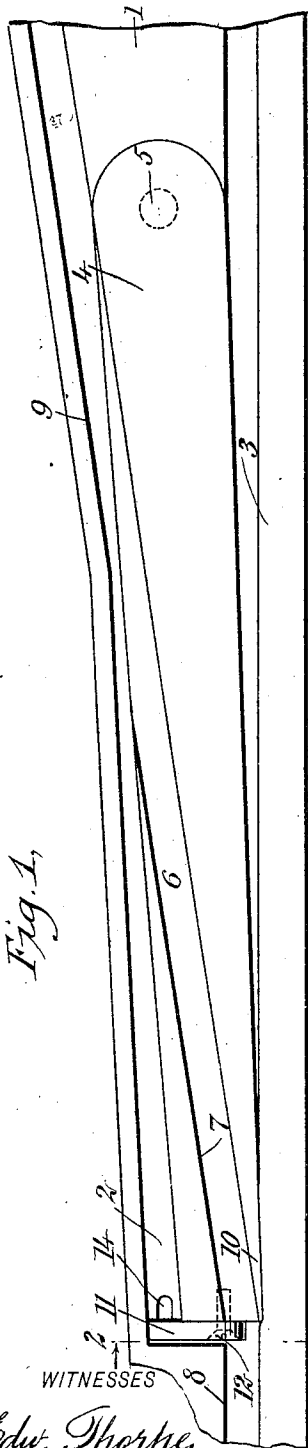
No. 852,192.

PATENTED APR. 30, 1907.

W. J. McKEWEN.

SWITCH.

APPLICATION FILED FEB. 19, 1907.



WITNESSES
Edw. Thorpe.
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Fig. 7.

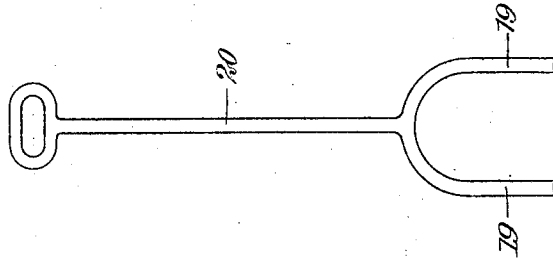


Fig. 4.

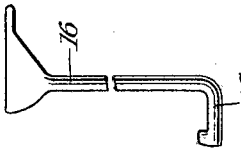


Fig. 3.

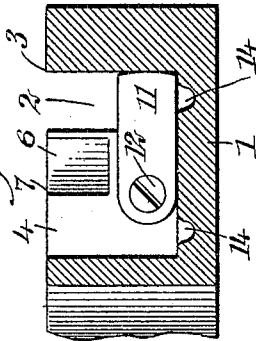


Fig. 2.

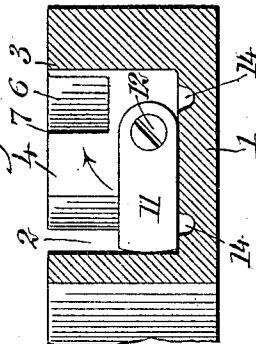


Fig. 6.

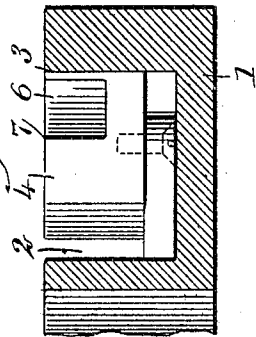


Fig. 5.



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WILLIAM J. McKEWEN, OF PHILADELPHIA, PENNSYLVANIA.

SWITCH.

No. 852,192.

Specification of Letters Patent.

Patented April 30, 1907.

Application filed February 19, 1907. Serial No. 358,186.

To all whom it may concern:

Be it known that I, WILLIAM J. McKEWEN, a citizen of the United States, and a resident of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and Improved Switch, of which the following is a full, clear, and exact description.

This invention relates to switches designed to be used in connection with motor cars, and has for its object to provide means adapted to hold a switch point locked firmly in position when adjusted. Such object I accomplish by the means illustrated in the accompanying drawings, in which drawings like characters of reference indicate like parts throughout the views, and in which

Figure 1 is a plan of a device embodying my invention; Fig. 2 is a vertical transverse section taken on the line 2—2 of Fig. 1; Fig. 3 is a similar view to that shown in Fig. 2, with the end of the switch plate oppositely arranged; Fig. 4 is a side elevation of a hook adapted to operate the locking mechanism; Fig. 5 is a plan of a modification of my invention; Fig. 6 is a transverse section taken on the line 6—6 of Fig. 5; and Fig. 7 is a side elevation of a forked bar adapted to operate the locking mechanism shown in Figs. 5 and 6.

As shown in the drawings, a bed plate 1 is provided with a longitudinal recess 2 and a rail section 3. A switch plate 4 is mounted upon the bed plate by means of a pivot pin 5, and is provided with a recess 6 extending diagonally across the switch plate, thereby forming a guide rail 7 adapted to be extended in line with the main rail section 8 and the turn-out rail 9, when the switch plate is arranged in the position shown in Fig. 1. When in such position the switch point 10 bears against the guide rail 3. A button 11 is attached to the end of the switch plate by means of a stud 12 or otherwise, and is adapted to be swung on said stud or pivot so as to bear against either of the opposite walls formed by the recess in the bed plate, as shown in Figs. 2 and 3. When the button is arranged as shown in Fig. 1, the end of the switch plate is locked against lateral displacement and the switch held open. When, however, the button is swung around with its end bearing against the opposite wall of the bed plate, as shown in Fig. 3, the switch plate is closed and locked.

Instead of attaching the locking button to

the end of the switch plate so as to move vertically thereon, a button 13 may be attached to the under portion of the forward end of the switch plate, as shown in Fig. 5, so as to bear against the opposite walls of the base plate in the manner already described.

When the button is arranged to move vertically on the end of the switch plate, recesses 14 are preferably made in the upper surface of the bed plate extending under the button 11, as shown in Figs. 1, 2 and 3 adapted to receive the off-set end 15 of a bar 16 so as to enable the button to be raised and reversed when it is desired to change the position of the switch plate.

In case the button is attached to the under surface of the end of the switch plate, I prefer to form segmental recesses 17 in the side walls of the bed plate which co-operate with corresponding recesses 18 formed in the sides of the switch plate so as to make a conjoint recess between said switch and plate when arranged together adapted to receive the ends 19 of a forked bar 20 in said recess, thereby permitting said bar to be rotated on its axial line so that one of the arms of the bar will bear against the end of the button 13 and move it in the direction of the arrow shown in Fig. 5. After the button has been so moved, the arm of the bar which bears against said button remains stationary and becomes a fulcrum point, while the opposite arm of the bar bears against the side of the switch plate and moves the end of the plate laterally, thereby enabling the position of the button 13 to be reversed and the switch plate locked in a closed position.

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

1. A switch comprising a base plate having a longitudinal recess and a turn-out rail communicating therewith, a switch plate pivoted in said recess and provided with a diagonal recess, a guide rail, a switch point, and a button pivotally attached to the end of said switch plate adapted to bear against opposite walls of said recess, substantially as shown and described.

2. A switch comprising a base plate provided with a longitudinal recess and a turn-out communicating therewith, a switch plate pivotally mounted on said base plate within said recess and provided with a diagonal

groove, a guide rail and switch point, and a button pivotally attached to the end of said switch plate adapted to bear at its end against opposite side walls of said base plate, said base plate being formed with apertures adapted to receive an operating bar for adjusting the button, substantially as shown and described.

3. A switch comprising a base plate having a longitudinal recess and a turn-out communicating therewith, a switch plate pivoted to said base plate within said recess and provided with a diagonal groove, a switch point and a guide rail, and a button pivoted to the under side of the end of said switch plate adapted to bear against the side walls of the base plate, and means connected with said base plate and switch plate adapted to en-

able said button to be rotated on said switch plate, substantially as shown and described. 20

4. A switch comprising a base plate provided with a longitudinal recess, and a turn-out communicating therewith, a switch plate pivoted to said base plate within said recess and provided with a switch point, and a button pivotally connected with the free ends of said switch point adapted to bear at its end against the side walls of said recess, substantially as shown and described. 25

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses. 30

WILLIAM J. McKEWEN.

Witnesses:

CHARLES A. QUIST,
RUPERT A. YERKES.