

No. 848,028.

PATENTED MAR. 26, 1907.

G. W. HART.
ELECTRIC SWITCH.
APPLICATION FILED JUNE 25, 1906.

Fig. 1.

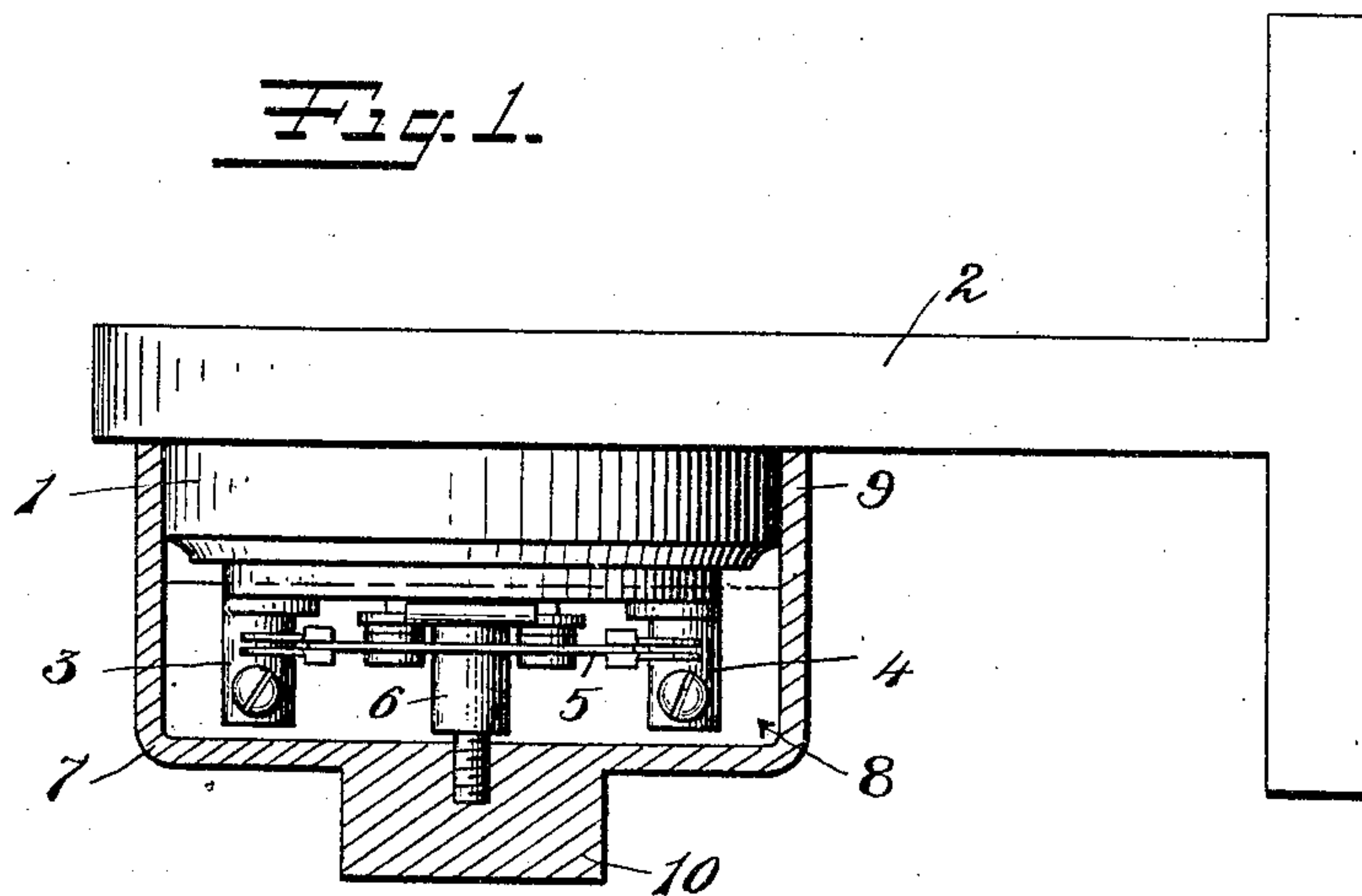
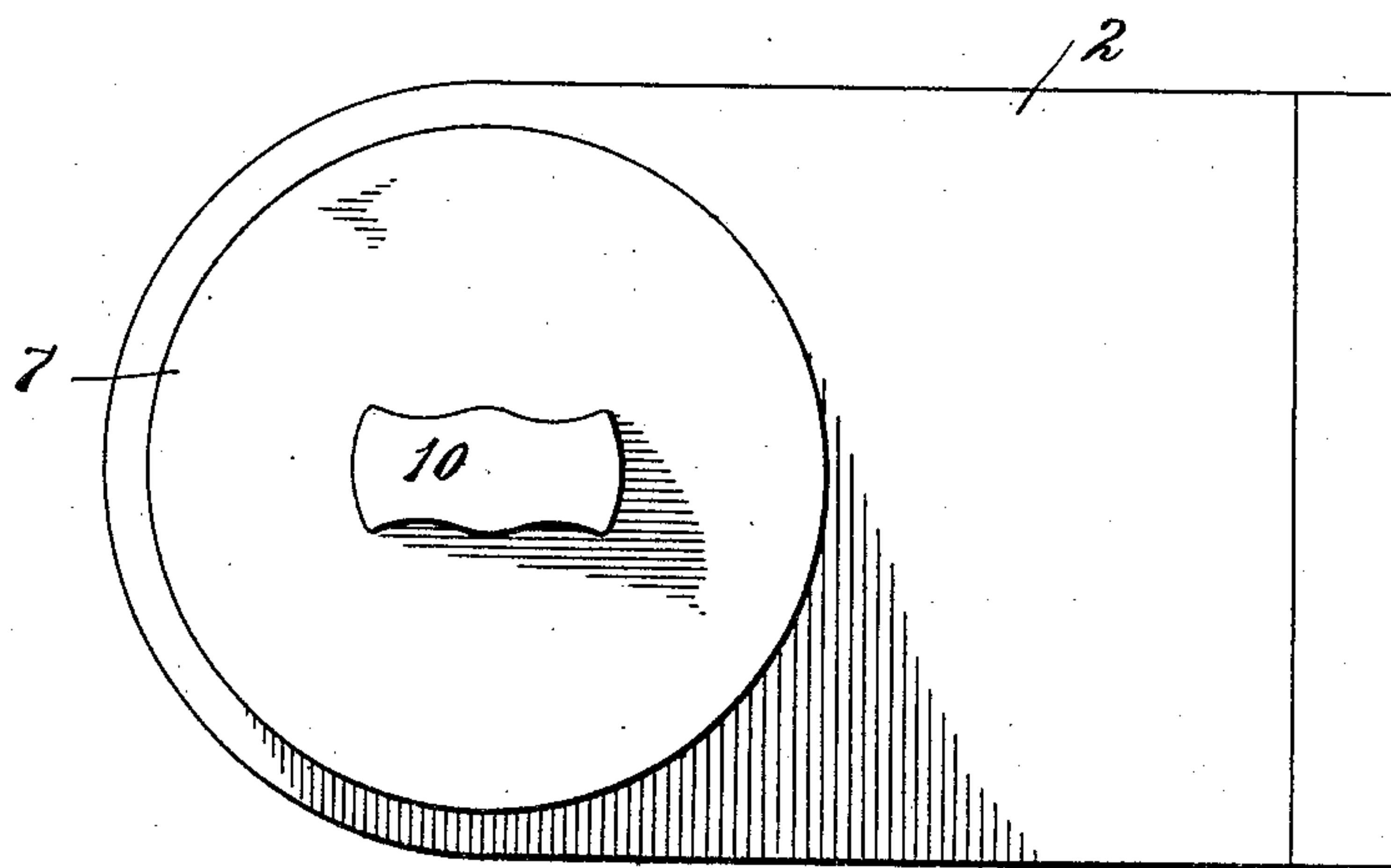


Fig. 2.



Witnesses
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ELECTRIC SWITCH.

No. 848,028.

Specification of Letters Patent.

Patented March 26, 1907.

Application filed June 25, 1906. Serial No. 323,194.

To all whom it may concern:

Be it known that I, GERALD W. HART, a citizen of the United States, residing at Hartford, county of Hartford, State of Connecticut, (post-office address 103 Allyn street,) have invented certain new and useful Improvements in Electric Switches, of which the following is a full, clear, and exact description.

My invention relates to improvements in electric switches, and particularly snap-switches.

The object of the invention is to provide a switch, for instance, adapted to be secured to the ceiling and which will be removable and safe from short-circuiting or arcing.

The invention consists in improvements the principles of which are illustrated in the accompanying single sheet of drawings.

Briefly, it contemplates the mounting of the terminals and switch-arm in a cup-like receptacle filled with oil.

Figure 1 is a side elevation showing the oil-containing receptacle in section. Fig. 2 is a bottom view of the receptacle and support.

1 indicates the base of insulating material—for instance, such as porcelain—which is secured to the under side of a support 2 and provided with suitable passages for the wiring. The terminals 3 and 4 are carried by the insulating-base and are of suitable construction.

5 indicates the switch arm or lever, which is adapted to connect the terminals 3 and 4. This switch-arm is carried by a rotatable pole-piece or post 6 and revolves in a substantially horizontal plane, as shown. A suitable mechanism is provided for holding the switch-arm in its proper position and releasing it at the proper time.

7 indicates the receptacle, having a chamber 8 filled with oil, sufficient oil to cover the arm 5, as shown in dotted line, Fig. 1. The upper edge of the receptacle 9 surrounds the insulating-piece 1 and fits snugly thereto; but not tight enough to prevent relative movement. The receptacle is preferably formed in one piece and is perfectly tight, so that no

oil can possibly leak out. It is preferably removably secured to the pole-piece 6—as, for instance, by a screw-thread—so that the receptacle may rotate with the pole-piece in one direction at least. A thumb-piece 10 is provided, which projects downward from the receptacle for the purpose of more conveniently turning the receptacle pole-piece. In the form shown it will be noted that the receptacle may be rotated in one direction to rotate the switch-arm correspondingly and that the receptacle may be removed by rotation in the opposite direction. The direction of operative rotation and the direction of removal will of course depend upon whether the screw-thread on the pole-piece is right or left hand.

While the construction is simple and may be manufactured at low cost and readily installed, it will be seen to be efficient and reliable.

What I claim is—

1. An electric switch, comprising an insulating-piece, a terminal carried thereby, a rotatable switch-arm and an oil-containing receptacle surrounding the terminal and switch-arm and rotatable with the switch-arm.

2. In an electric snap-switch, a pair of terminals, a switch-arm, a rotatable pole-piece carrying said arm, and an oil-containing receptacle surrounding the terminals and switch-arm and rotatable with the switch-arm.

3. In an electric switch, an insulating-piece, a terminal carried thereby, a rotatable switch-arm rotatable in a substantially horizontal plane, an oil-containing receptacle surrounding the base, terminal and switch-arm, and arranged to hold oil to a level overstanding said horizontally-rotatable switch-arm, said receptacle being rotatably mounted and operatively connected with said switch-arm whereby when said receptacle is revolved, said switch-arm will be actuated.

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Witnesses:

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