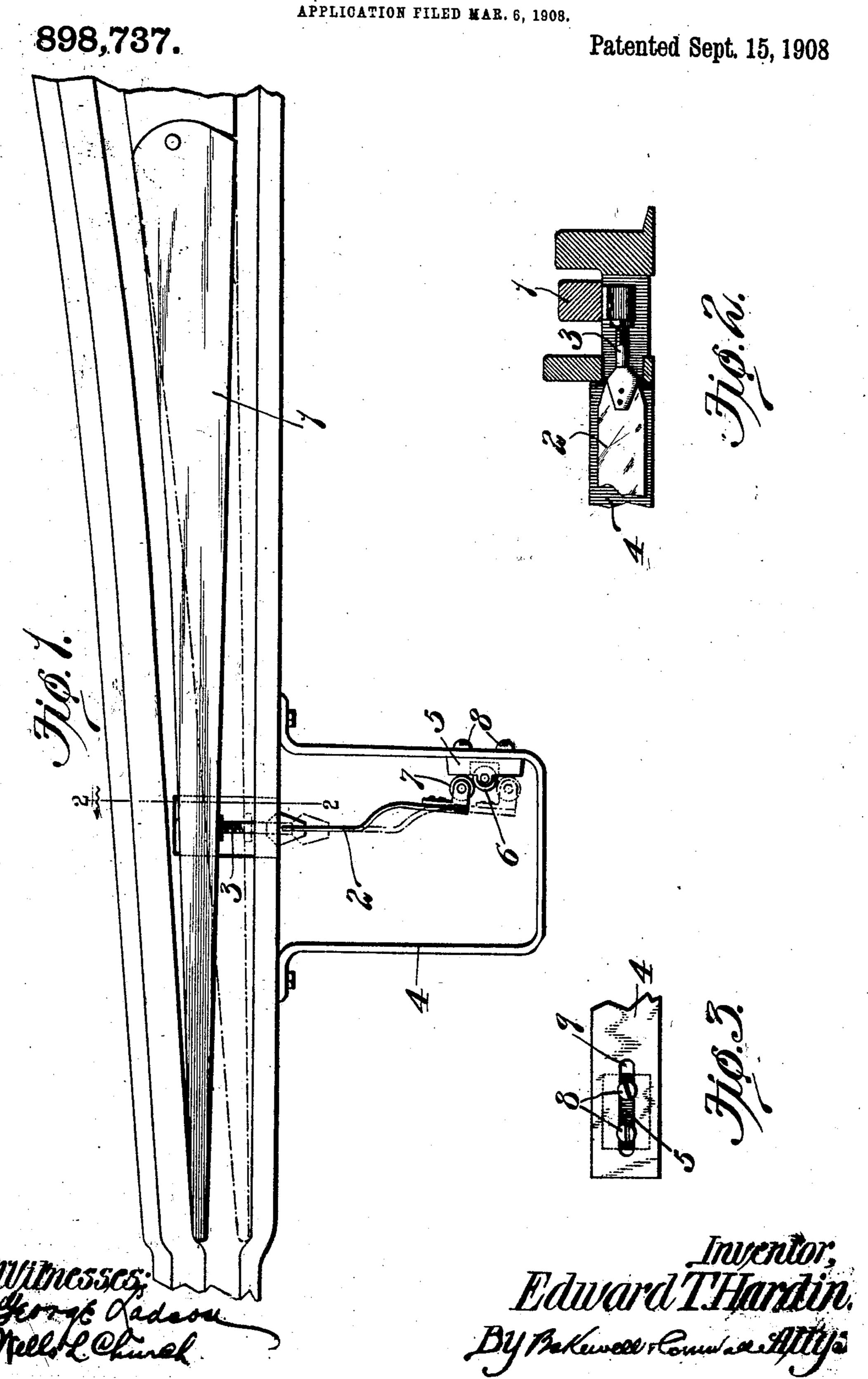
E. T. HARDIN.
SWITCH LOCK.



UNITED STATES PATENT OFFICE.

EDWARD T. HARDIN, OF HOT SPRINGS, ARKANSAS.

SWITCH-LOCK.

No. 898,737.

Specification of Letters Patent.

Patented Sept. 15, 1908.

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To all whom it may concern:

Be it known that I, EDWARD T. HARDIN, a citizen of the United States, residing at Hot Springs, Arkansas, have invented a certain 5 new and useful Improvement in Switch-Locks, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it appertains to make and use the same, reference be-10 ing had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a top plan view of a switch lock constructed in accordance with my invention; Fig. 2 is a cross sectional view taken on 15 the line 2-2 of Fig. 1; and Fig. 3 is a detail view of the adjustable roller which forms part of the locking device.

This invention relates to switch locks; namely, devices that are employed for hold-20 ing a movable switch-point or tongue in either of its two positions.

The main object of my invention is to provide a locking device of simple construction | the spring arm 2. that will securely hold a switch-point in 25 either of its two operative positions.

Another object of my invention is to provide a locking device that will prevent a switch-point from assuming a position intermediate its two operative positions, said 30 locking device being so constructed that it causes the switch-point to move into its extreme position after it has been started or moved slightly.

Referring to the drawings which illustrate 35 the preferred form of my invention, 1 designates the movable tongue or switch-point of a railway switch, and 2 designates an arm formed of spring metal and adjustably connected to the switch-point by means of a threaded rod 3 and lock nuts. A yoke or support 4 which is secured to one of the rails of the track, carries a block 5 provided with a roller 6, and the spring arm 2 on the switchpoint is provided with a roller 7 that cooperates with the roller 6 to lock the switch-point in either of its two positions. The block 5 is preferably adjustably connected to the yoke or support 4 by means of clamping screws 8 that project through an elongated slot 9 in 0 the yoke, as shown in Fig. 3, so that the position of the roller 6 can be changed to compensate for wear and thus insure a proper adjustment of the switch-point.

When the switch-point is moved slightly from the position shown in full lines in Fig. 55 1, the roller 7 on the spring arm 2 will ride up onto the roller 6 and then down onto the other side of said roller 6 and thus move the switch point into the position shown in broken lines in Fig. 1. With a locking de- 60 vice of this construction it will be impossible for the switch-point 1 to assume a position intermediate its two operative positions for the roller 7 on the spring arm 2 will not come to rest on the upper side of the roller 6 be- 65 cause the spring arm exerts sufficient pressure on said roller 7 to throw it to either side of the roller 6. The roller 6 is so positioned that the switch-point will be in either of its two operative positions when the roller 7 lies 70 on either side of said roller and when the switch-point or rollers wear away the block 5 can be adjusted so as to properly position the switch-point, or the lock nuts on the bolt 3 can be manipulated to lengthen or shorten 75

While I have herein illustrated my improved switch lock as being used in connection with grooved rails such as are used for street railways, it will, of course, be under- 80 stood that it could also be used in a track

structure composed of T-rails.

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

1. In a railway track structure, a movable switch-point, an arm projecting laterally from said switch-point and being formed of spring metal, a roller carried by said arm, and a coöperating roller carried by a station- 90 ary support; substantially as described.

2. In a railway track structure, a movable switch-point, a laterally projecting spring arm adjustably connected to said switchpoint and provided at its outer end with a 95 roller, and a coöperating roller carried by a support; substantially as described.

3. In a railway track structure, a movable switch-point, a yielding arm projecting laterally from said switch-point and provided 100 with a locking member, a support, and a cooperating locking member adjustably connected to said support; substantially as described.

4. In a railway track structure, a movable 105 switch-point, a spring arm projecting laterally from said switch-point, a roller carried by said arm, a stationary support, a block adjustably connected to said support, and a roller on said block which cooperates with the roller on said spring arm; substantially as described.

In testimony whereof I hereunto affix my

signature in the presence of two witnesses, this 24 day of Feb. 1908.

EDWARD T. HARDIN

Witnesses:
Alden C. Jones,
Martin A. Eisel.