

No. 889,199.

PATENTED JUNE 2, 1908.

S. CANTY.
RAILWAY FROG.
APPLICATION FILED JAN. 21, 1908.

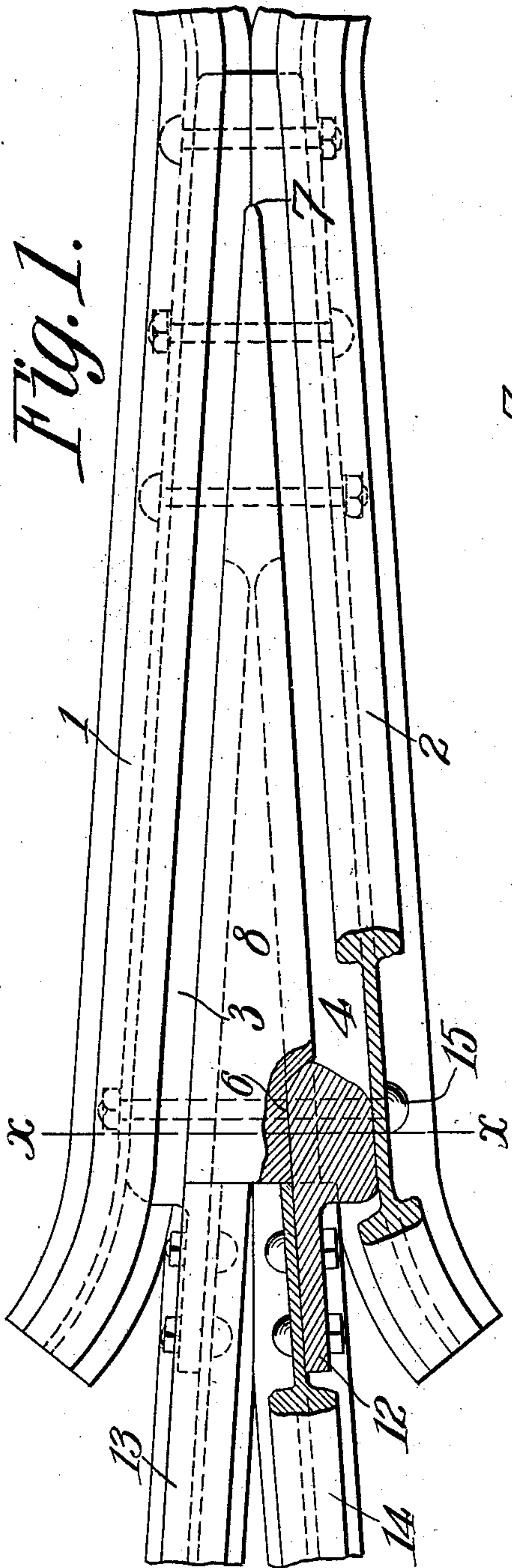


Fig. 1.

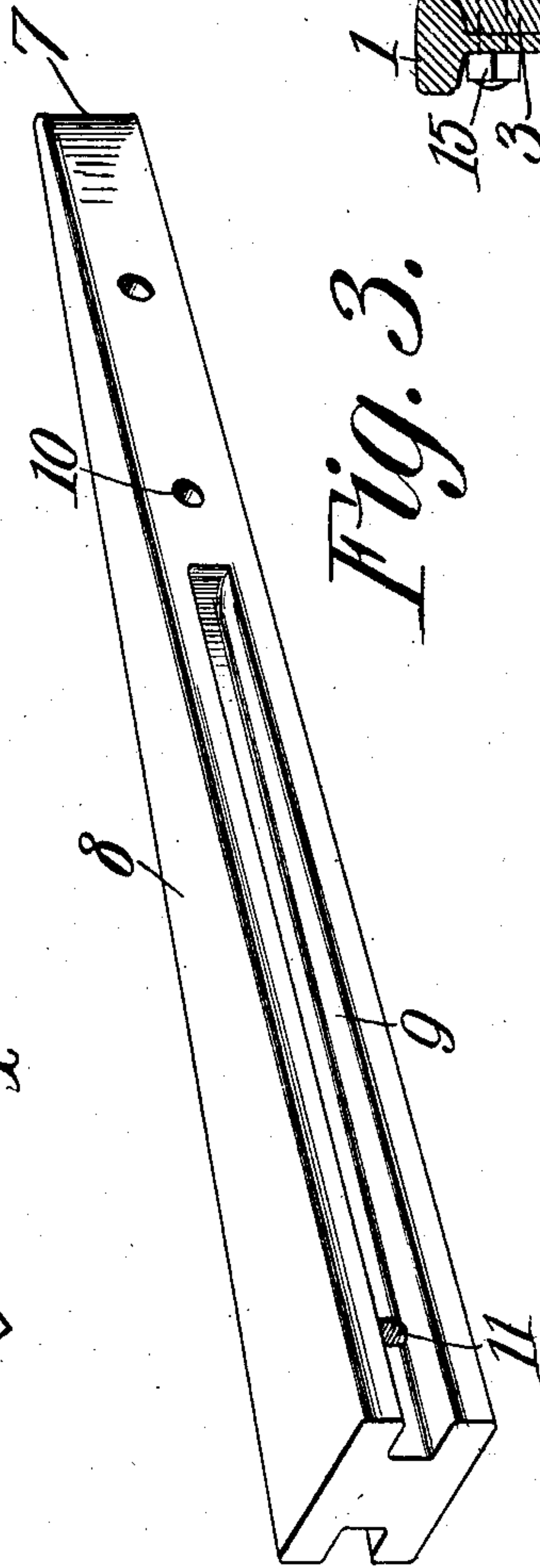


Fig. 3.

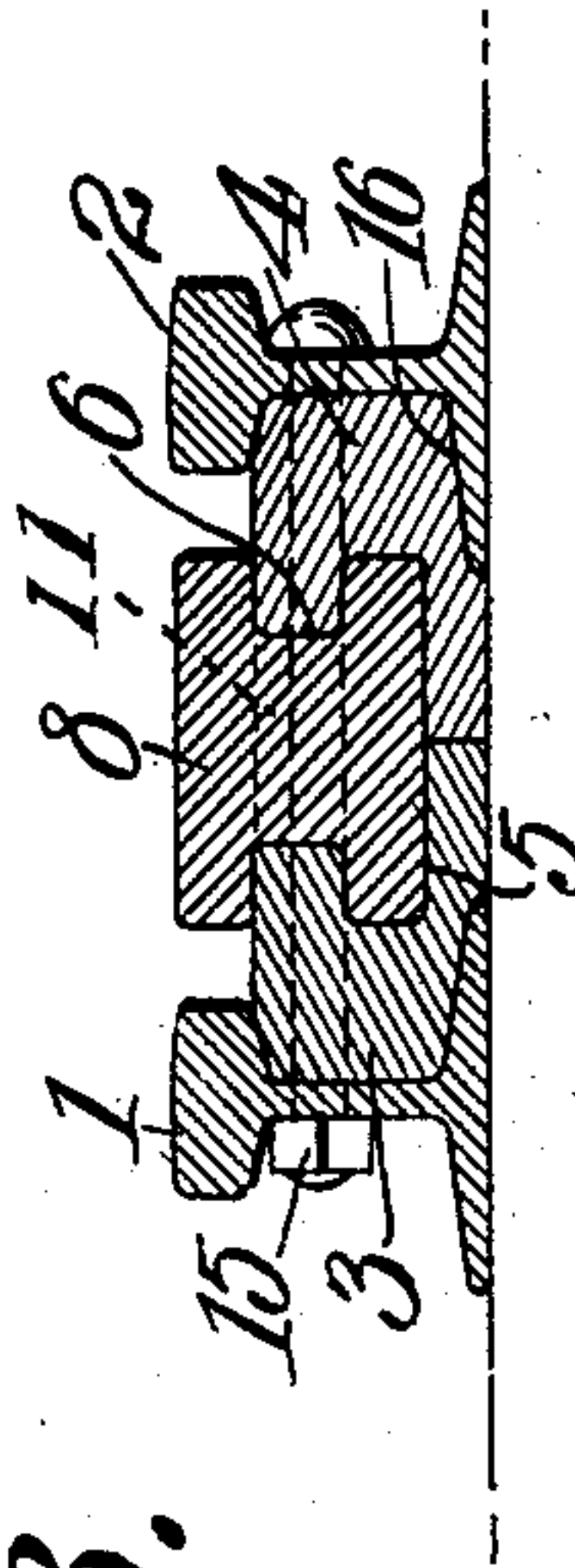


Fig. 2.

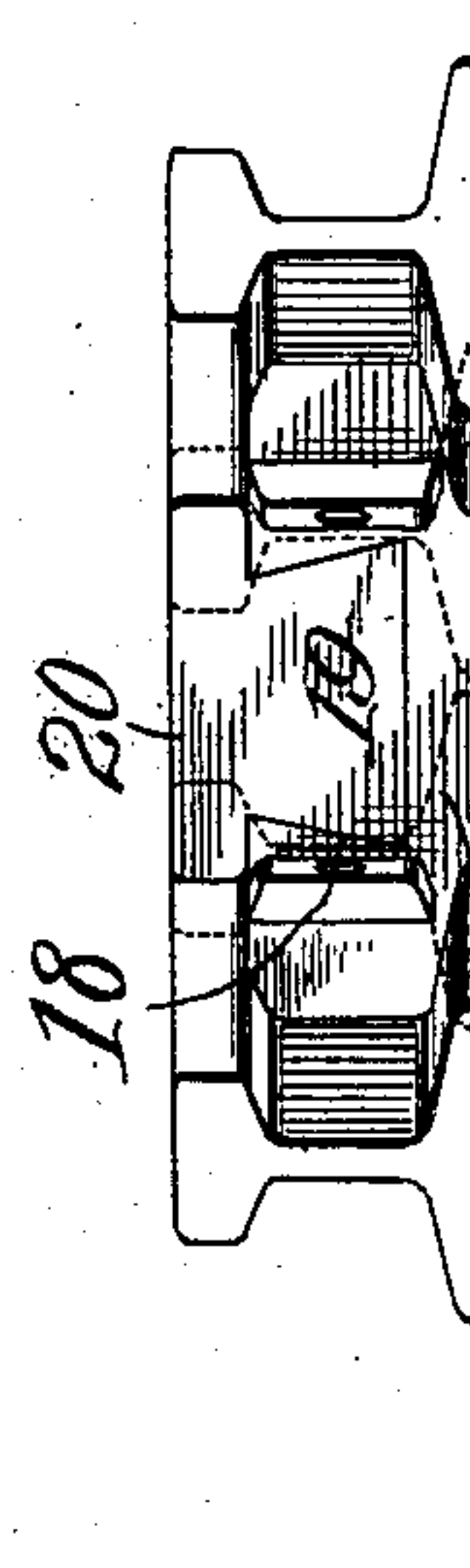


Fig. 4.

Witnesses

E. H. Stuart
Robert D. Lawson

Stephen Canty.

By

C. A. Snow & Co.

Attorneys

Inventor

UNITED STATES PATENT OFFICE.

STEPHEN CANTY, OF NEW ALBANY, INDIANA.

RAILWAY-FROG.

No. 889,199.

Specification of Letters Patent.

Patented June 2, 1908.

Application filed January 21, 1908. Serial No. 411,916.

To all whom it may concern:

Be it known that I, STEPHEN CANTY, a citizen of the United States, residing at New Albany, in the county of Floyd and State of Indiana, have invented a new and useful Railway-Frog, of which the following is a specification.

This invention relates to railroad frogs and its object is to provide a device of this character having a point removably mounted within holding means so that a new point can be substituted in the event of wear or breakage at comparatively slight cost.

A further object is to provide a point which is reversible so that either face thereof can be placed uppermost, thus increasing the life of the point.

Another object is to provide a holder of novel form for securing the point in proper position between the rails, said holder having means whereby the track and switch rails can be properly secured thereto.

With these and other objects in view the invention consists of certain novel features of construction and combinations of parts which will be hereinafter more fully described and pointed out in the claims.

In the accompanying drawings is shown the preferred form of the invention.

In said drawings: Figure 1 is a plan view of a switch frog embodying the present improvements, a portion thereof being broken away to show the connection between the holder and one of the rails. Fig. 2 is a section on line $x-x$, Fig. 1. Fig. 3 is a detail view of the point. Fig. 4 is an end elevation of a modified form of frog.

Referring to the figures by characters of reference, 1 and 2 designate the outer and inner guard rails located at the frog of the switch and interposed between these rails is a holding frame consisting of oppositely disposed members 3 and 4 each of which is tapered toward one end and they are provided in their adjoining faces with longitudinal grooves 5. The two members 3 and 4 contact along the bottom portions thereof as indicated in Fig. 2 but the upper faces of the members are cut away longitudinally along their adjoining edges to form a slot 6 terminating at a point 7 removed from the small end of the frame. This slot is shaped to snugly receive the point of the frog which, as indicated in Fig. 3, consists of an elongated triangular bar 8 of metal provided with longitudinal grooves 9 in its side faces into

which the walls of the slot 6 are designed to extend as indicated in Fig. 2. In order that the point of the bar will not be weakened these grooves preferably terminate between the ends of the bar as shown in Fig. 3 and the sides of the bar between the point and the grooves are flat. As indicated in Fig. 1 the slot 6 is shaped so that this point portion as well as the groove portion of the bar will fit snugly within it. Transverse openings are formed in the point portions of the bar along the longitudinal center thereof and one or more vertical slots are formed within the groove portion of the bar as indicated at 11.

Each frame member 3 and 4 has an integral fish plate 12 extending from its large end and these fish plates are designed to be bolted or otherwise secured to the webs of the main and switch rails 13 and 14 respectively. When the rails are thus positioned the upper surfaces of the heads thereof aline with the upper surface of the bar 8. This bar and its holding members 3 and 4 are designed to be securely clamped between the guard rails 1 and 2 by clamps or bolts which are extended through said rails and through the upper portions of the members 3 and 4, said bolts also extending through slot 11 and openings 10. By tightening these bolts the parts will obviously be firmly clamped together. Should the bar 8 become worn the same can be readily removed and reversed by withdrawing bolts 15 and pushing the rails 13 and 14 from the fish plates. The bar 8 can then be withdrawn from engagement with the members 3 and 4, turned over and re-inserted, after which the various parts can be again secured together.

It will be noted by referring to Fig 2 that the members 3 and 4 have their lower faces recessed as indicated at 16 so as to fit snugly upon the adjoining base flanges of the rails 1 and 2. These members 3 and 4 fit snugly against the webs of said rails so that when the parts are clamped together a solid rigid structure is produced.

Although the holding frame has been shown and described as formed of two oppositely disposed members it is to be understood that if preferred this frame may be formed in a single piece as shown at 17 in Fig. 4, the same being provided with a tapered dovetail groove 18 designed to receive a correspondingly shaped portion 19 formed with and extending downward from the frog point 20. Of course, by providing a frog of this con-

struction the same can not be reversed but it can be removed and another one substituted therefor in the event of wear or breakage.

Although bolts 15 have been shown and described as used for fastening the parts together it is to be understood that other forms of fastening devices may be employed in lieu thereof.

What is claimed is:

10 1. A railway frog comprising a holding frame, a point detachably mounted therein and extending thereabove, and means extending through the frame and point for securing them together and to rails adjacent
15 thereto.

2. A railway frog comprising converging rails, a holding frame interposed therebetween and fitting snugly thereagainst, means

extending through the frame and rails for fastening them together, and a point remov- 20
ably mounted within and extending above the frame, said point being fastened by said means.

3. A railway frog comprising a separable frame, a point detachably mounted within 25
and extending above the frame, and means for securing the parts of the frame and the point together.

In testimony that I claim the foregoing as my own, I have hereto affixed my signa- 30
ture in the presence of two witnesses.

STEPHEN CANTY.

Witnesses:

JACOB SCHECHTER,
JOHN H. WEATHERS.