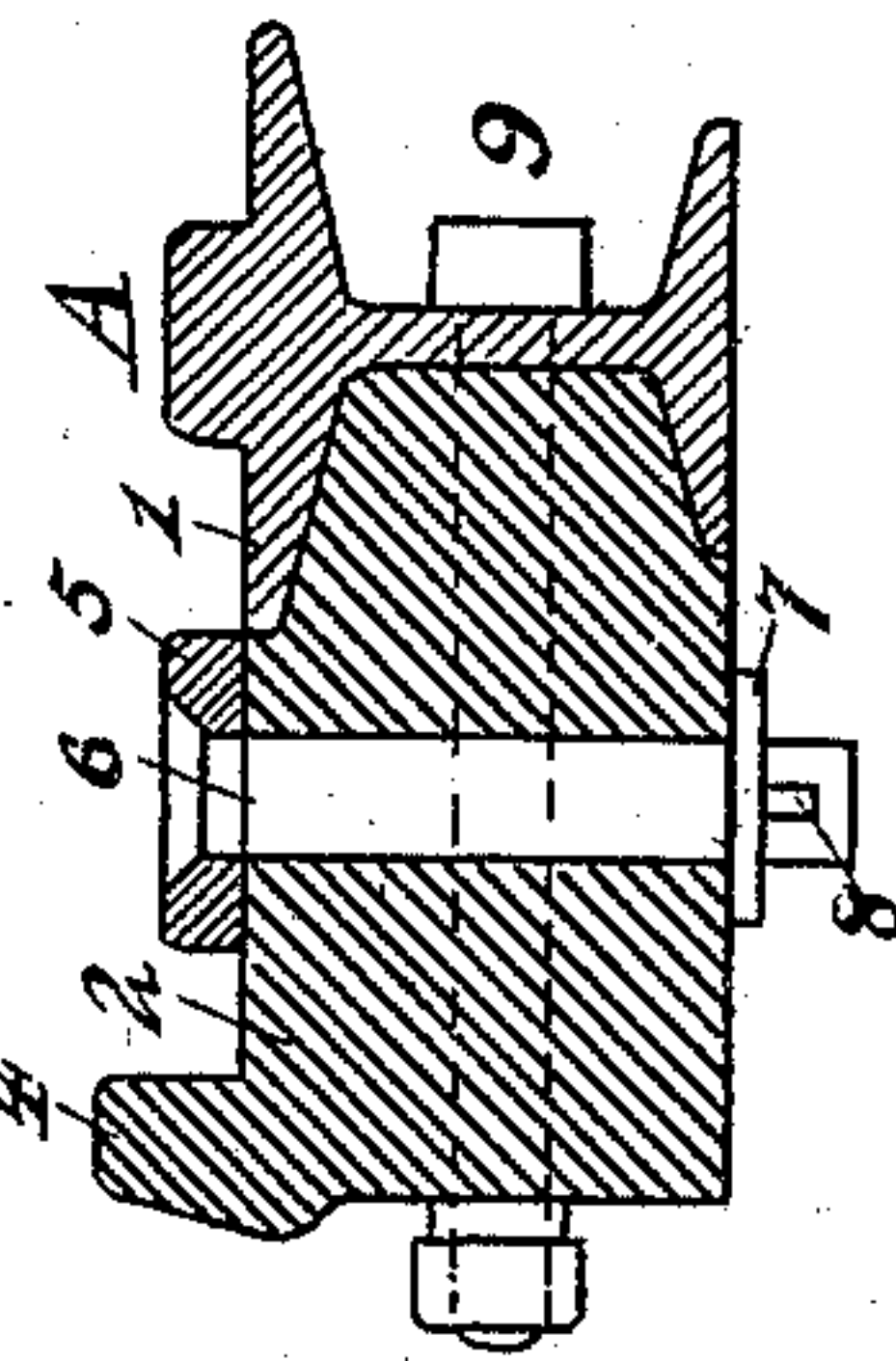
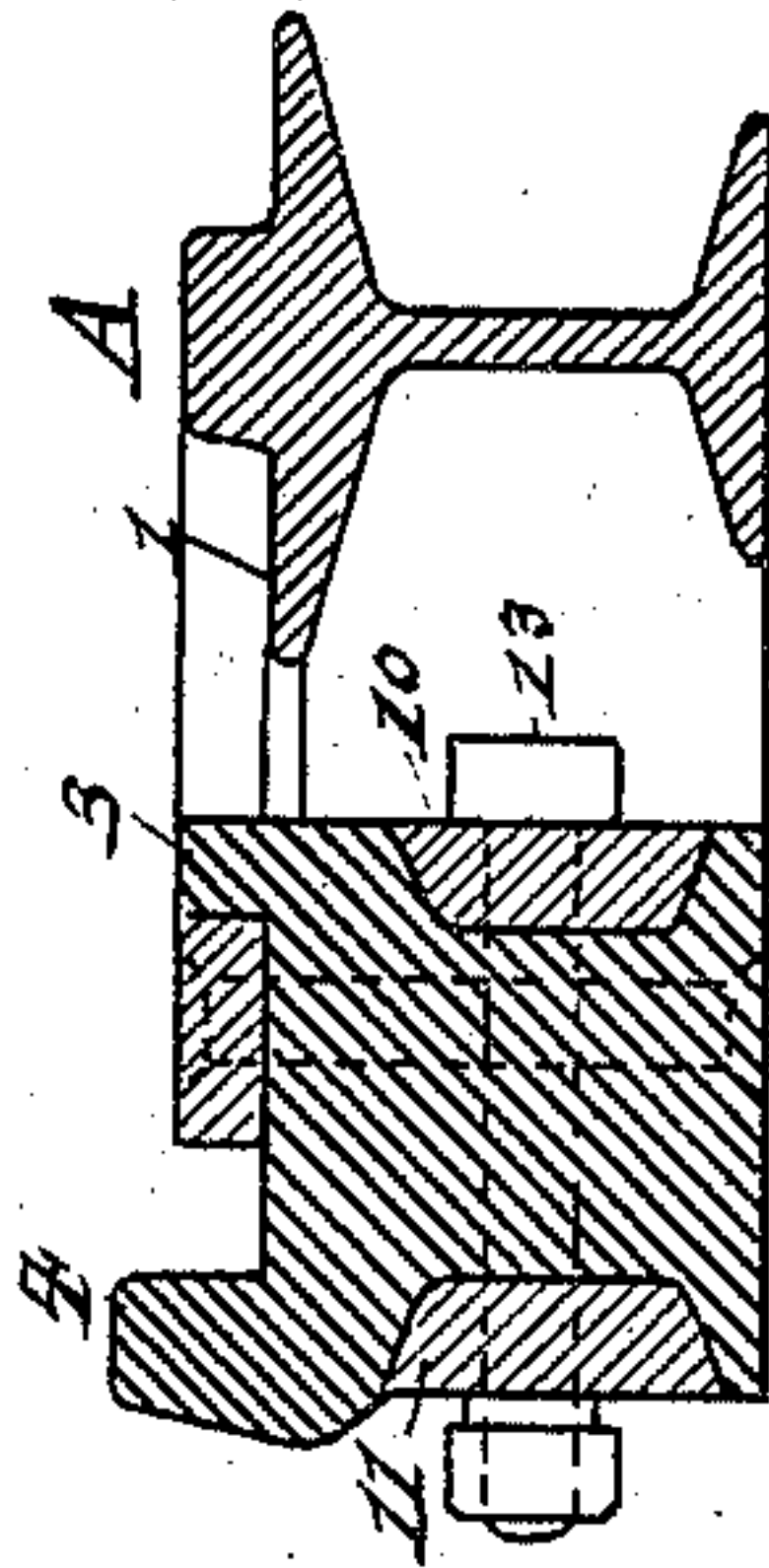
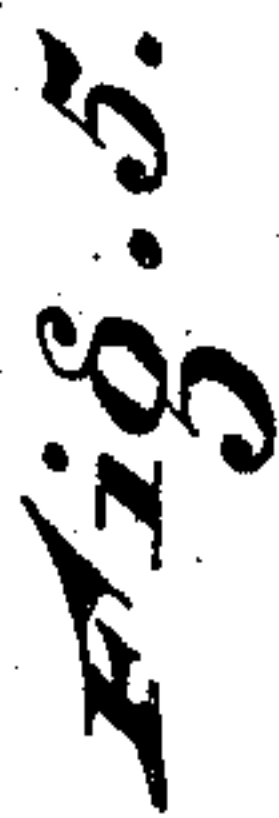
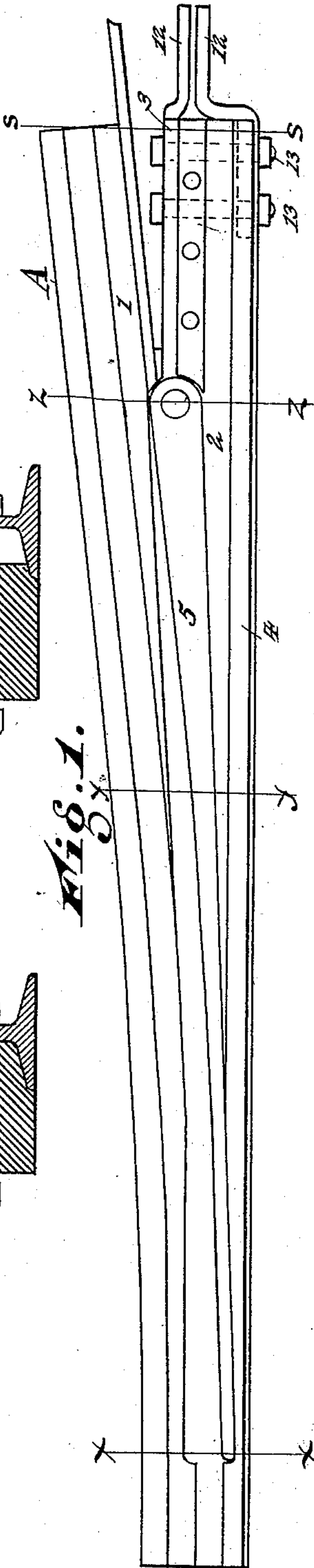
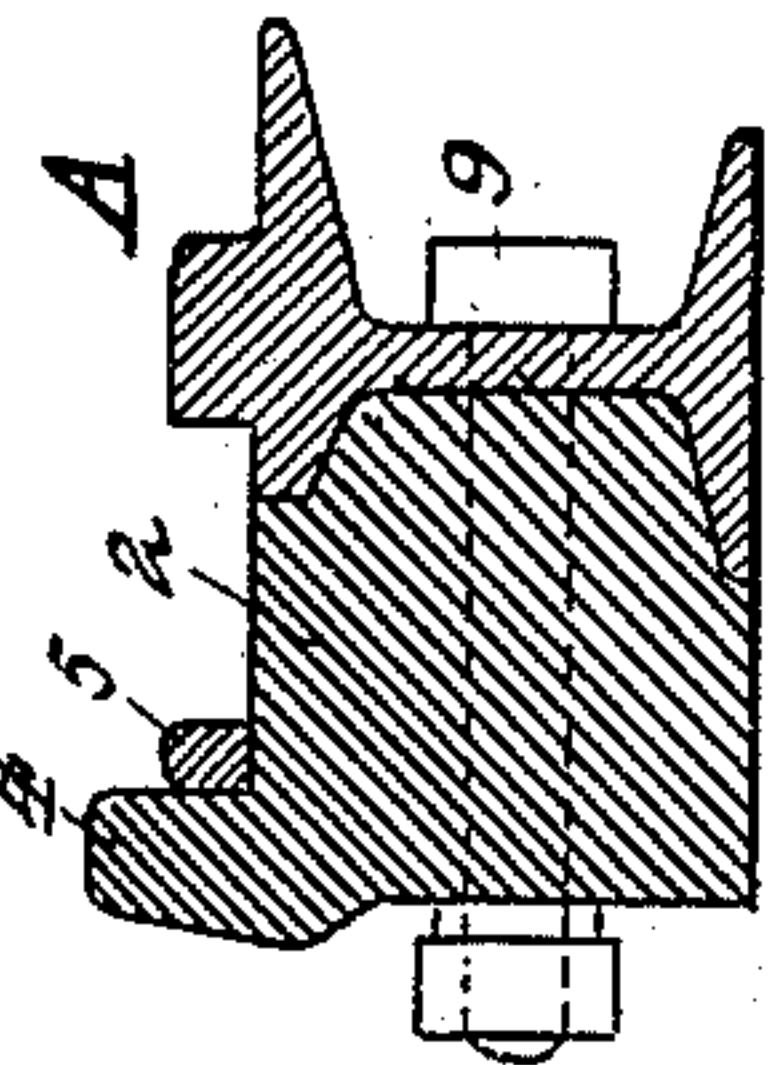
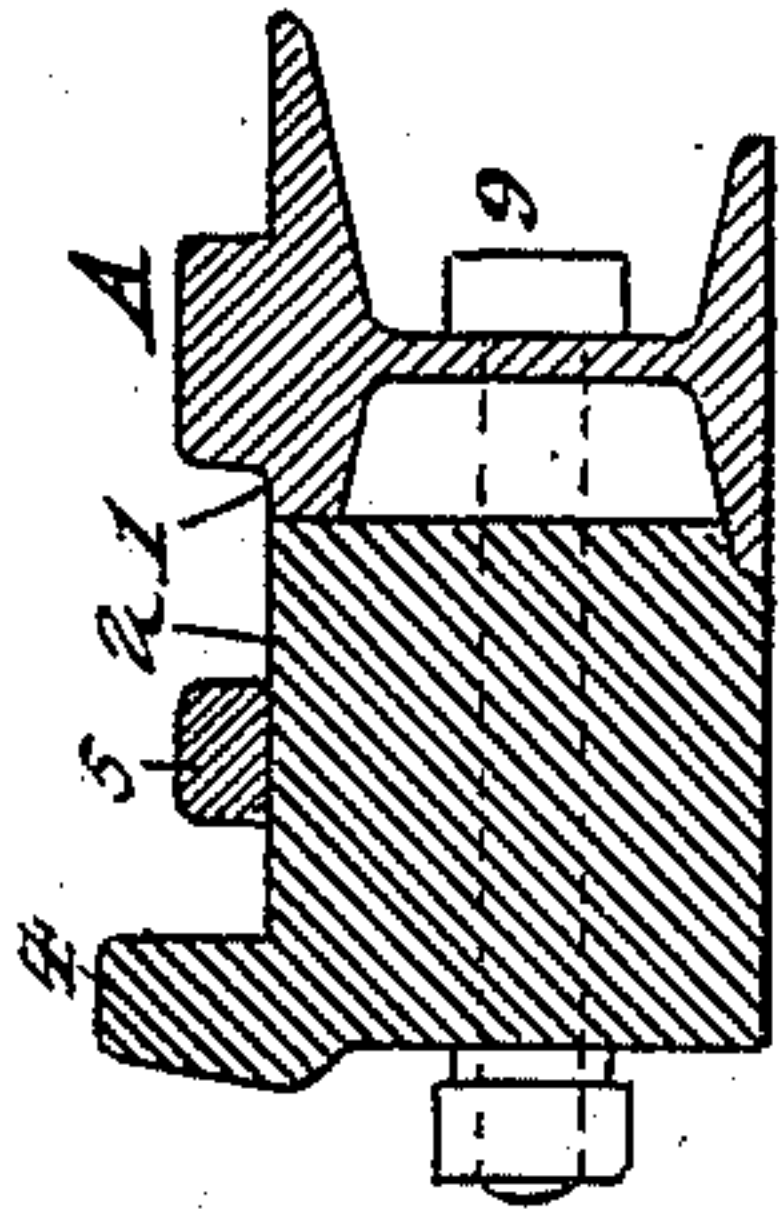


(No Model.)

F. C. WEIR.
STREET RAILWAY SWITCH.

No. 398,204.

Patented Feb. 19, 1889.



Attest
Watson Sims
T. Simmons

Inventor
Fredric C. Veir.
by Wood & Foyd
His Attorneys

UNITED STATES PATENT OFFICE.

FREDRIC C. WEIR, OF CINCINNATI, OHIO.

STREET-RAILWAY SWITCH.

SPECIFICATION forming part of Letters Patent No. 398,204, dated February 19, 1889.

Application filed May 24, 1888. Serial No. 274,972. (No model.)

To all whom it may concern:

Be it known that I, FREDRIC C. WEIR, of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and
5 useful Improvements in Street - Railway Switches, of which the following is a specification.

My invention relates to the construction of a tongue-switch of girder-rails, such as are
10 employed for street-railways. I prefer to employ center girder-rails, but do not limit myself to the use of center-bearing girder-rails.

The object of my invention is to provide a switch of center girder-rail and a built-up rail
15 formed of the casting secured to said girder-rails and forming a strong durable switch-point, all of which will be fully set forth in the description of the accompanying drawings, making a part of this specification, in
20 which—

Figure 1 represents a top plan view of my invention. Fig. 2 is a section on line *x x*, Fig. 1. Fig. 3 is a section on line *y y*, Fig. 1. Fig. 4 is a section on line *z z*, Fig. 1. Fig. 5
25 is a section on line *s s*, Fig. 1.

A represents a center girder-rail having its flange 1 cut off to form the desired taper.

2 represents a spacing and guard block. It is provided in the rear of the tongue with the
30 flange 3 and on the opposite side with the flange 4, the space between these flanges 3 and 4 being sufficient to allow of the movement of the tongue and form a flange for the car-wheels.

5 represents a switch-tongue secured to the casting 2 by a pivot-bolt, 6.
35

7 represents a washer, and 8 the key for fastening the bolt in place. The tongue is movable back and forth in the space between
40 the girder-rail A and the flange 4. The rail A is secured to the spacing and guard block 2 by means of through-bolts 9.

In order to attach the girder-rail to the

casting 2, I provide fish-plates 10 and 11, which are bent to form a yoke, 12, in rear of
45 said casting, as shown in Fig. 1. These fish-plates are secured by means of bolts 13 to the spacing and guard block 2 and form fish-plates for girder-rails attached between them.

By using the spacing and guard block 2 for
50 the support of the tongue-switch I obtain a strong durable support, and it serves as a spacing and support block for the outside guard of the switch-point and an abutment to which the girder-rail is firmly secured by
55 through-bolts, preventing the enlargement or spreading of the points of the frog. This form of construction is adapted to the spring-tongue as well as the hinged tongue.

Having described my invention, what I claim
60 is—

1. A switch-point composed, substantially, of the girder-rail and guard and spacing block 2, provided with guard-flange 4, and secured
65 together by means of through-bolts, substantially as specified.

2. A switch-point composed, substantially, of the girder-rail and spacing and guard block 2, provided with flanges 3 and 4, secured together by through-bolts 9, substantially as
70 herein specified.

3. In combination with the girder-rail A and guard and spacing block 2, the fish-plates 10 and 11 for connecting the girder-rail to said casting-block 2, substantially as specified.
75

4. In combination with the girder-rail A, guard and spacing block 2, provided with flange 4, the switch-tongue 5, pivoted to said guard and spacing block, substantially as
80 herein specified.

In testimony whereof I have hereunto set my hand.

FREDRIC C. WEIR.

Witnesses:

ROBERT ZAHNER,
J. WATSON SIMS.