

(No Model.)

W. WHARTON, Jr.

RAILWAY SWITCH OR OTHER CASTING.

No. 356,609.

Patented Jan. 25, 1887.

FIG. 1.

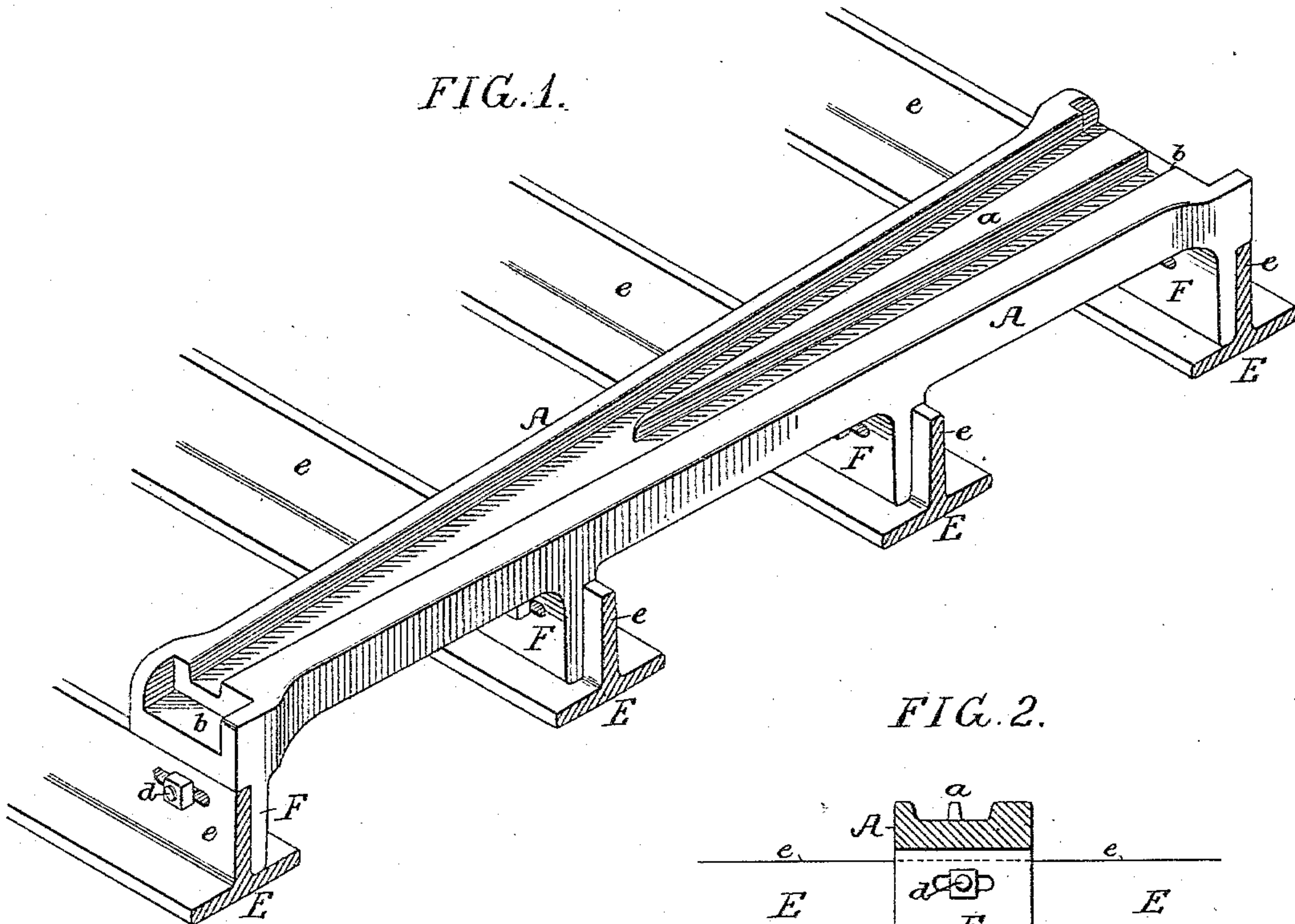


FIG. 2.

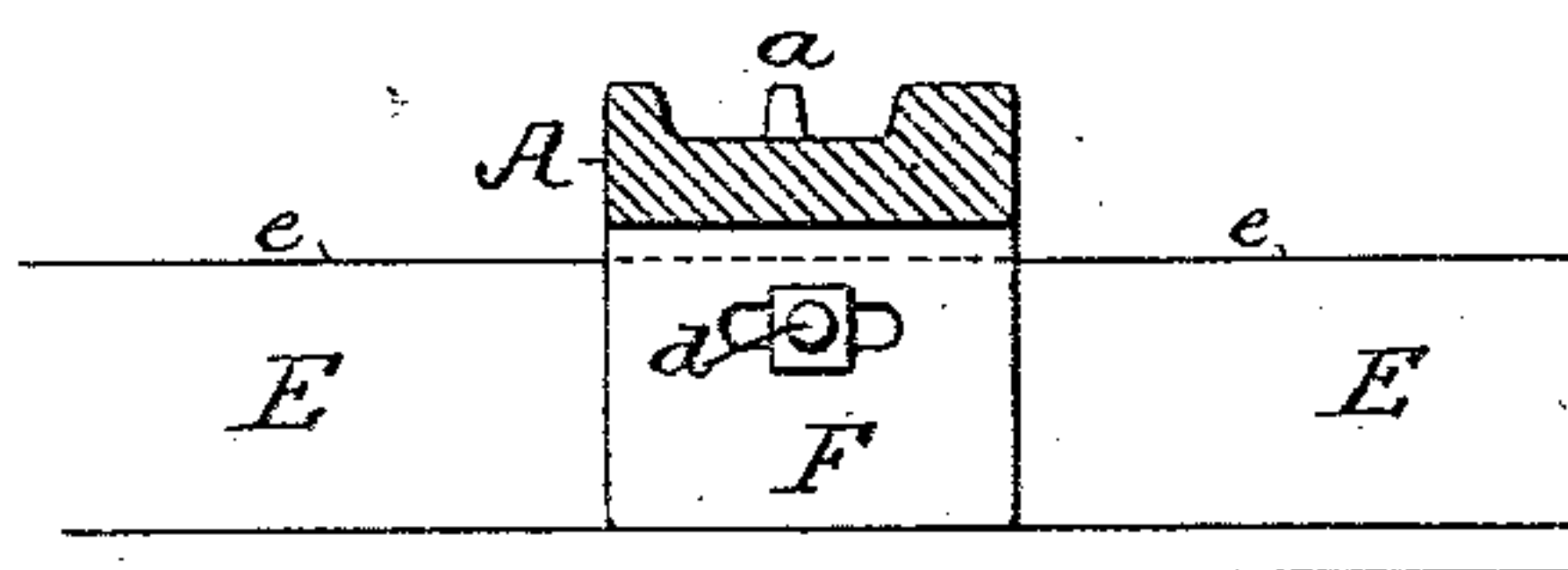


FIG. 3.

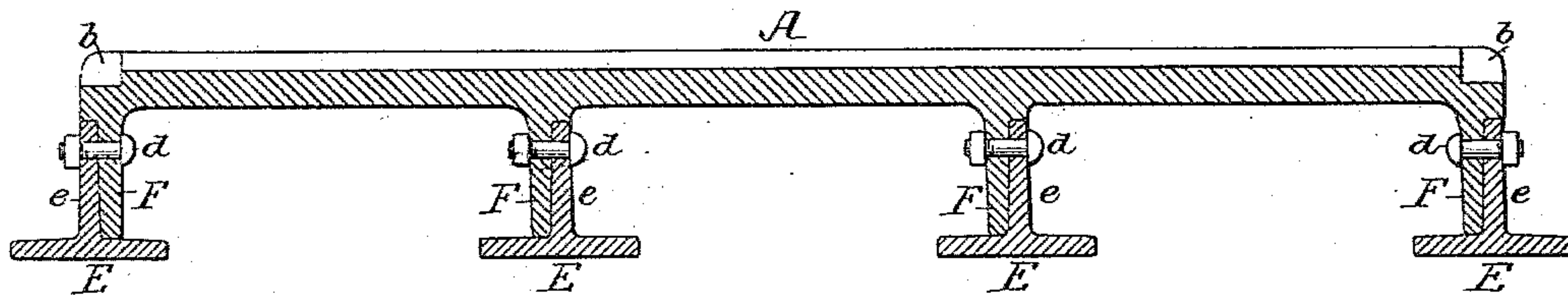
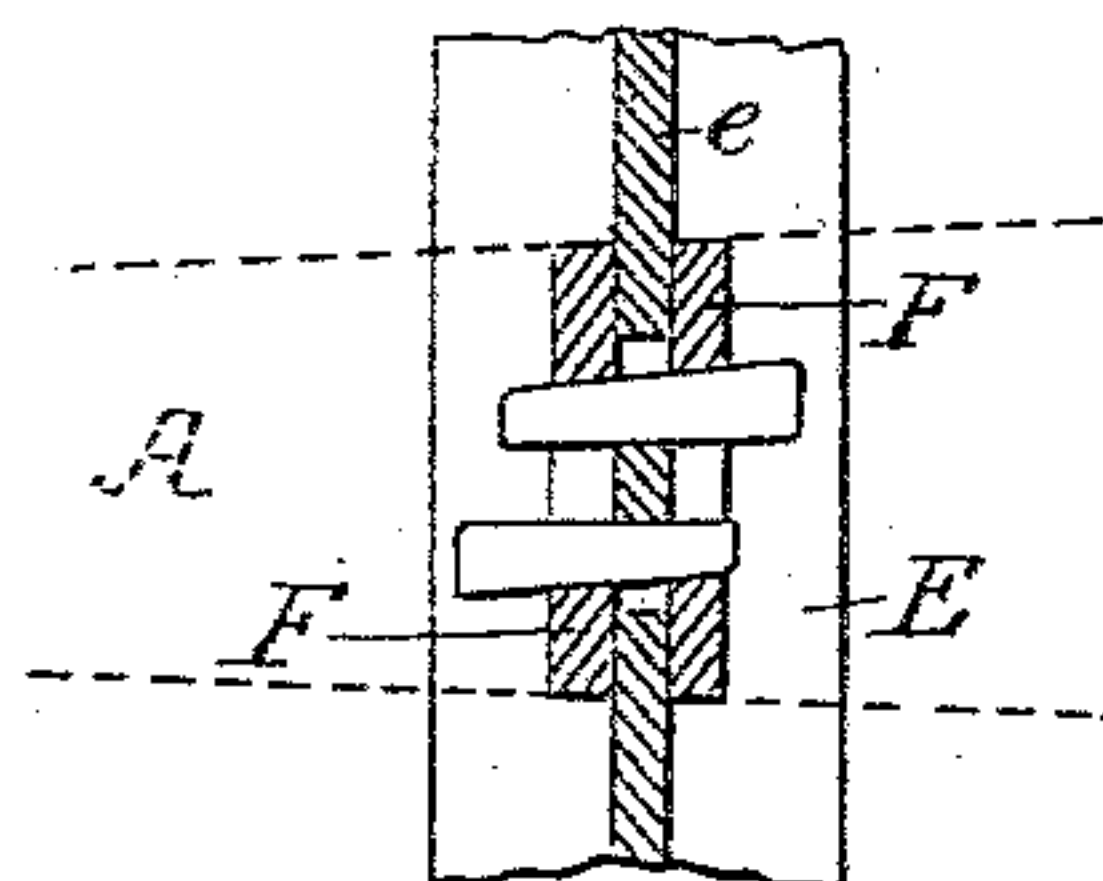


FIG. 4.



Witnesses:
William D. Bonner
John E. Parker

Inventor:
William Wharton, Jr.
by his Attorneys
Howson and Lass

UNITED STATES PATENT OFFICE.

WILLIAM WHARTON, JR., OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
WILLIAM WHARTON, JR., & CO., (LIMITED,) OF SAME PLACE.

RAILWAY-SWITCH OR OTHER CASTING.

SPECIFICATION forming part of Letters Patent No. 356,609, dated January 25, 1887.

Application filed November 19, 1886. Serial No. 219,373. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WHARTON, Jr., a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Railway-Switch and other Castings, of which the following is a specification.

The object of my invention is to so construct a railway-frog, switch, or other casting and so combine it with cross-ties that a firm and secure support may be provided for the casting, and, further, that the latter may be capable of adjustment to a limited extent upon the ties, in order to bring the track to the precise gage desired, and that it may be firmly secured in such position.

In the accompanying drawings, Figure 1 is a perspective view of a switch-casting constructed in accordance with my invention. Fig. 2 is a transverse section of the same. Fig. 3 is a longitudinal section, and Fig. 4 is a modification.

The switch-casting A is provided in the present instance with a fixed tongue, *a*, and with pockets or recesses *b* at its opposite ends for the abutting rails of the track to rest in. From the under side of the casting depend, at intervals, legs *F*, which are adapted to combine with and to fit against the flanges *e* of the cross-ties *E*. The cross-ties I have shown in the drawings as in the form of T-bars; but they may be of any other suitable construction—such as angle-bars or channel-bars—provided they have upwardly-projecting flanges against which the legs *F* of the casting abut.

The casting is secured to the cross-ties by suitable pins or bolts, *d*, and slots are provided horizontally in either the legs of the castings or the flanges of the cross-ties, or both in the legs and the flanges, in order to permit the casting to be adjusted on the cross-ties to a sufficient extent to compensate for irregularities in construction or in the fitting of the parts together. I prefer to pass these bolts through the legs of the casting and the flanges

of the ties at points near the upper edges of the flanges, so that the bases of said legs, resting on the bases of the cross-ties, will be the more securely and firmly held.

It will not be necessary to have the slot-connection between the legs of the castings and the flanges of the ties upon more than one end of the ties, as in this way sufficient adjustability of gage is obtained. In such cases the legs of the casting at the other end of the ties may be riveted or otherwise rigidly secured to the flanges of the ties.

Instead of using pins or bolts to secure the legs to the ties, other means may be employed—as, for instance, wedge-shaped keys may be driven through slots in the legs and in the flanges of the ties, so as to produce the desired result of adjustment and security of position, as shown in Fig. 4.

I claim as my invention—

1. A frog, switch, or other railway-casting having depending legs, in combination with cross-ties having an upwardly-projecting longitudinal flange or flanges to which said legs are secured.

2. A frog, switch, or other railway-casting having depending legs, in combination with cross-ties having an upwardly-projecting longitudinal flange or flanges to which the said legs are adjustably secured, substantially as set forth.

3. A frog, switch, or other railway-casting having depending legs, in combination with cross-ties having an upwardly-projecting longitudinal flange or flanges, said legs and flanges being adjustably secured together by means of bolts adapted to slots, substantially as described.

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

WILLIAM WHARTON, JR.

Witnesses:

WILLIAM D. CONNER,
HARRY SMITH.