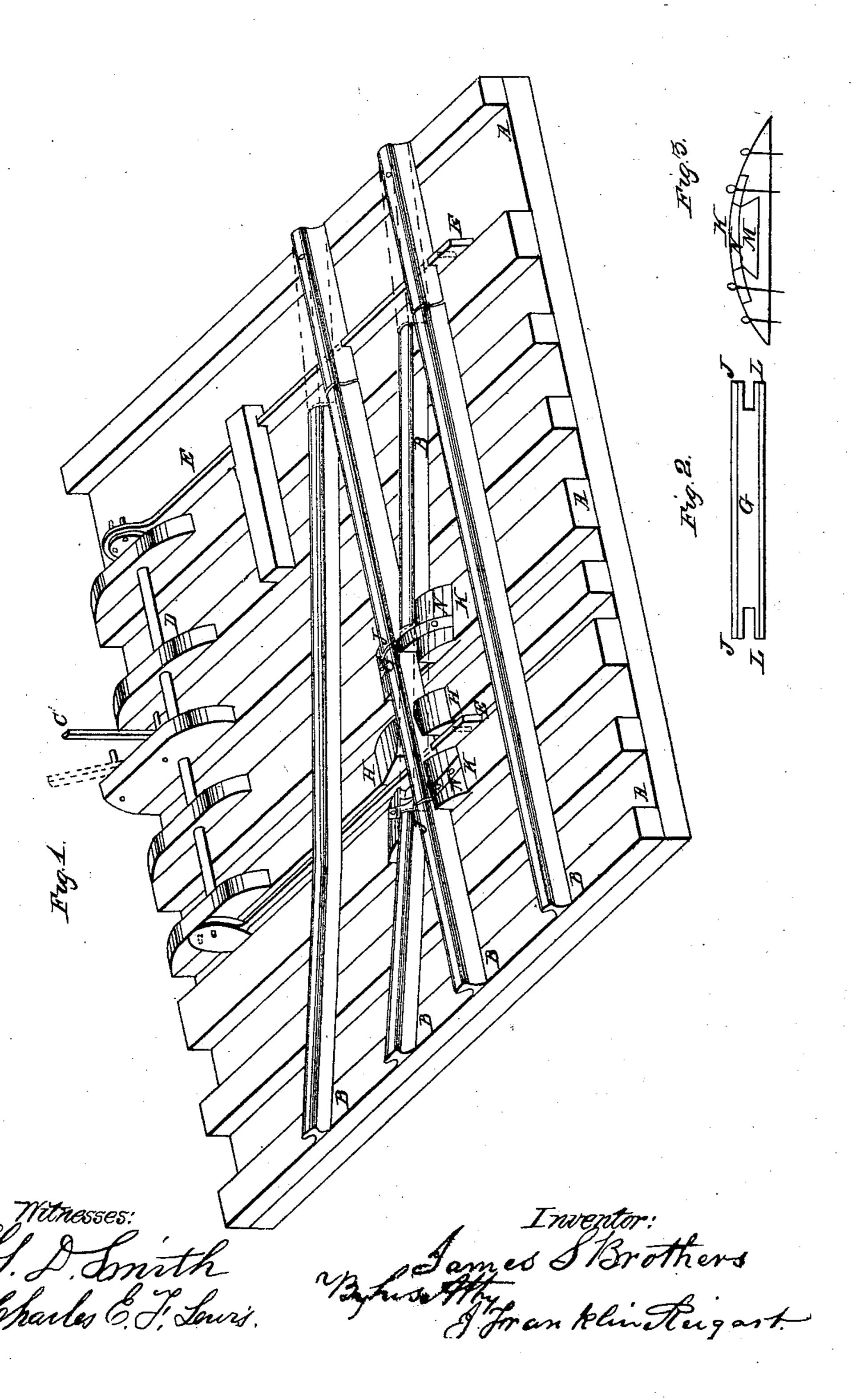
J.S.Brothers.

Railroad Switch.

JY 464,833.

Patented May 21, 186%.



UNITED STATES PATENT OFFICE.

JAMES S. BROTHERS, OF DUNCANNON, PENNSYLVANIA.

IMPROVED RAILWAY-SWITCH.

Specification forming part of Letters Patent No. 64,833, dated May 21, 1867.

To all whom it may concern:

of Duncannon, of the county of Perry and State of Pennsylvania, have invented a new | and useful Improvement in Railway-Switches; and I do hereby declare the following to be an exact description thereof, reference being had to the accompanying drawings, and to down across them, to assist in keeping the the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction of the chair and the adjustable

frog in combination.

Figure 1 represents a perspective view of the railway and switch. Fig. 2 shows the construction of the square forked ends of the frog, and Fig. 3 is an end view of the chair.

A represents the common cross-ties; B, the ordinary rails; C, the main lever that operates the roller D and levers E E, common to switches. G is the frog or pivot rail, operating at its center in the dovetail of the chair

H, but without a pivot or bolt running through Be it known that I, James S. Brothers, | it. The ends of the frog G are forked, and the top prongs J J operate on the tops of the chairs KK, while the lower prongs LL move in the dovetails M M of the chairs K K. The chairs K are to be made of cast or wrought iron, and with wrought-iron guards N bolted frog-rail G from rising, and under which each opposite corner or prong L of the frog is firmly held. The frog G is adjusted by a notch or pins in the lever E.

What I claim as my invention, and desire to

secure by Letters Patent, is—

The construction of the chair K with the adjustable frog G, when arranged, combined, and operated as herein described, and for the purposes set forth.

JAMES S. BROTHERS.

Witnesses:

SAMUEL SHELLER, JNO. CHARTERS.