

J. G. HOLLIDAY.  
 Railroad Rail Joint.

No. 168,900.

Patented Oct. 19, 1875.

Fig. 1

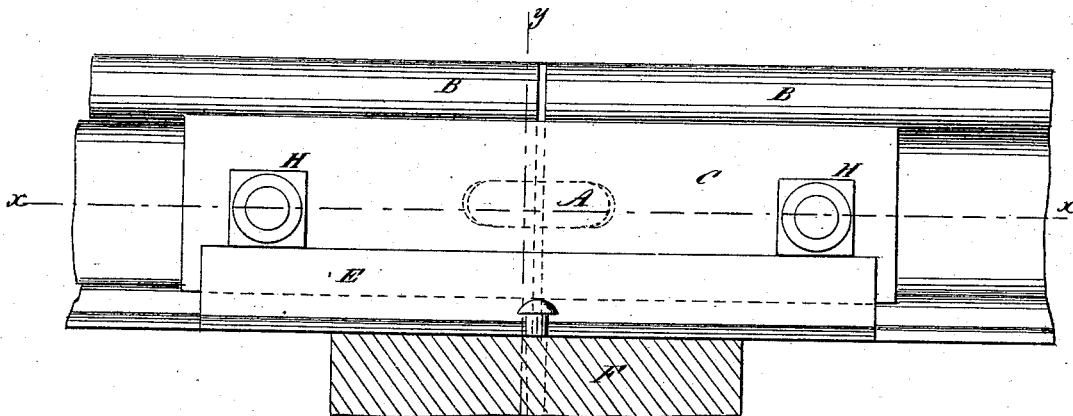


Fig. 2

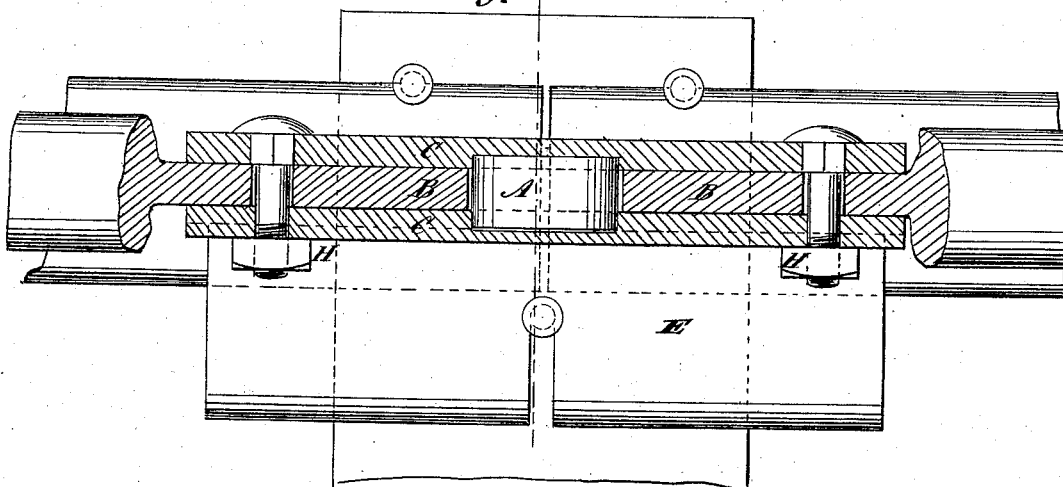
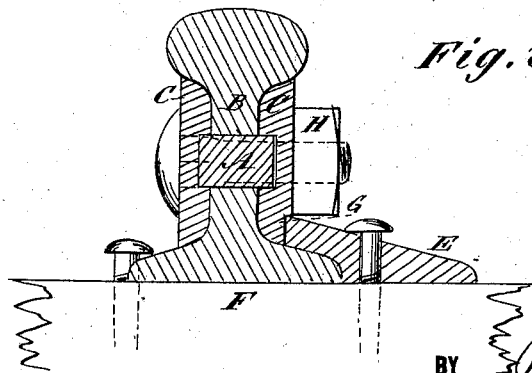


Fig. 3



WITNESSES:

*C. Neveu*  
*A. F. Terry*

INVENTOR:

*J. G. Holliday*  
 BY *[Signature]*  
 ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JAMES G. HOLLIDAY, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND FRANK E. HUTCHINSON, OF SAME PLACE.

## IMPROVEMENT IN RAILROAD-RAIL JOINTS.

Specification forming part of Letters Patent No. **168,900**, dated October 19, 1875; application filed September 4, 1875.

*To all whom it may concern:*

Be it known that I, JAMES G. HOLLIDAY, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and Improved Rail-Splice, of which the following is a specification:

The invention will first be described in connection with drawing, and then pointed out in the claim.

Figure 1 is a side elevation of my improved rail-joint. Fig. 2 is a horizontal section taken on line *x x* of Fig. 1, and Fig. 3 is a transverse section taken on line *y y* of Fig. 1.

Similar letters of reference indicate corresponding parts.

A is the key in the notched ends of the rails B, having its ends projecting into sockets in the fish-plates C, but not through them, so that the key has greater vertical support from the fish-plates than it would have if it extend-

ed through them, because they are not weakened as they would be by slots. E represents the plate for holding the rails down to the tie F. It sits under a shoulder, G, of one of the fish-plates, to sustain the vertical stress on the joints as much as possible, and it ranges under the nuts H, so as to prevent them from turning and working loose.

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

The plate E for binding the rails on the ties, arranged under a shoulder, G, of the fish-plate, and contrived to form a lock for the nuts, substantially as specified.

JAMES G. HOLLIDAY.

Witnesses:

C. SNIVELY,  
R. P. HEMINGRAY.