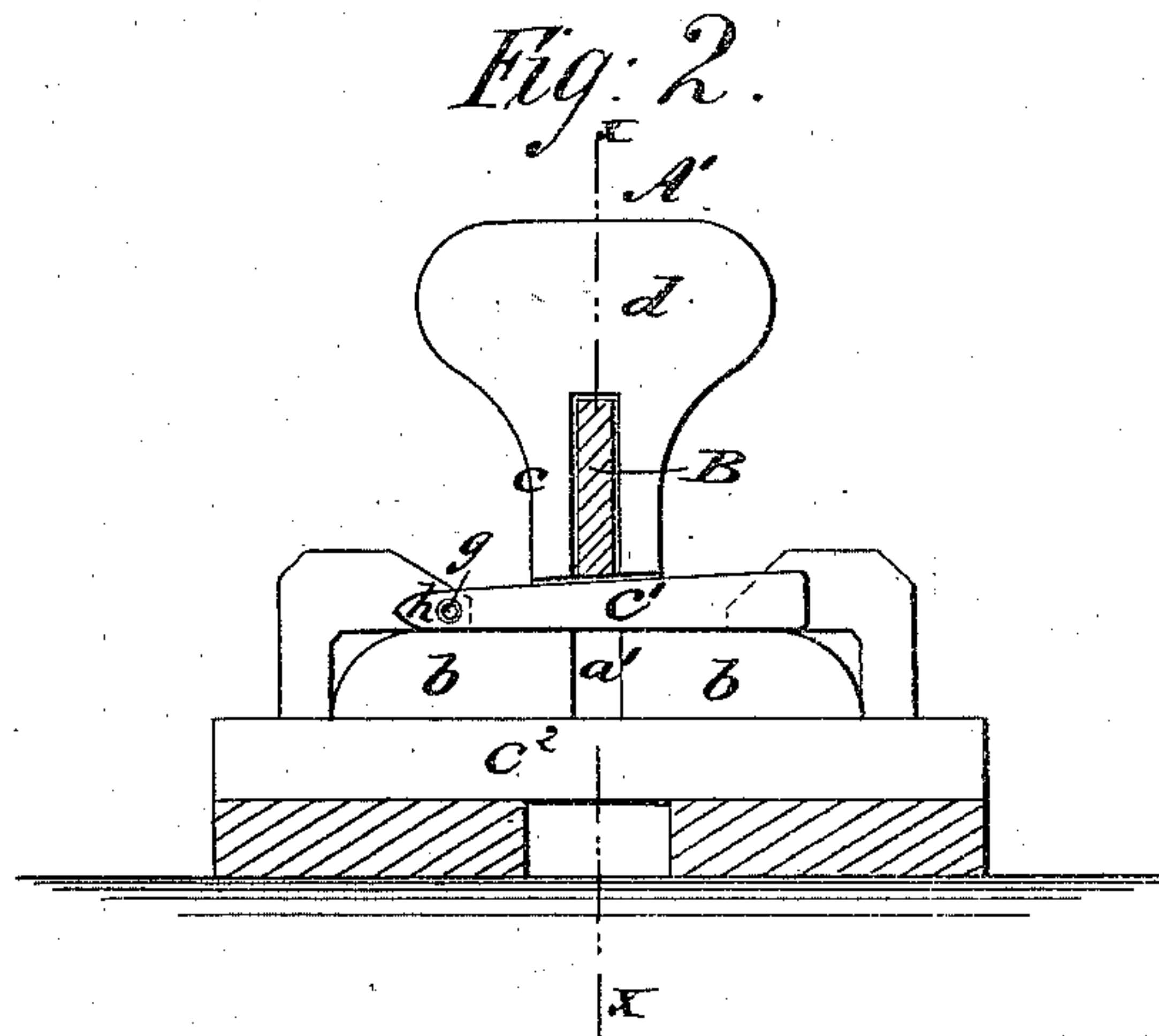
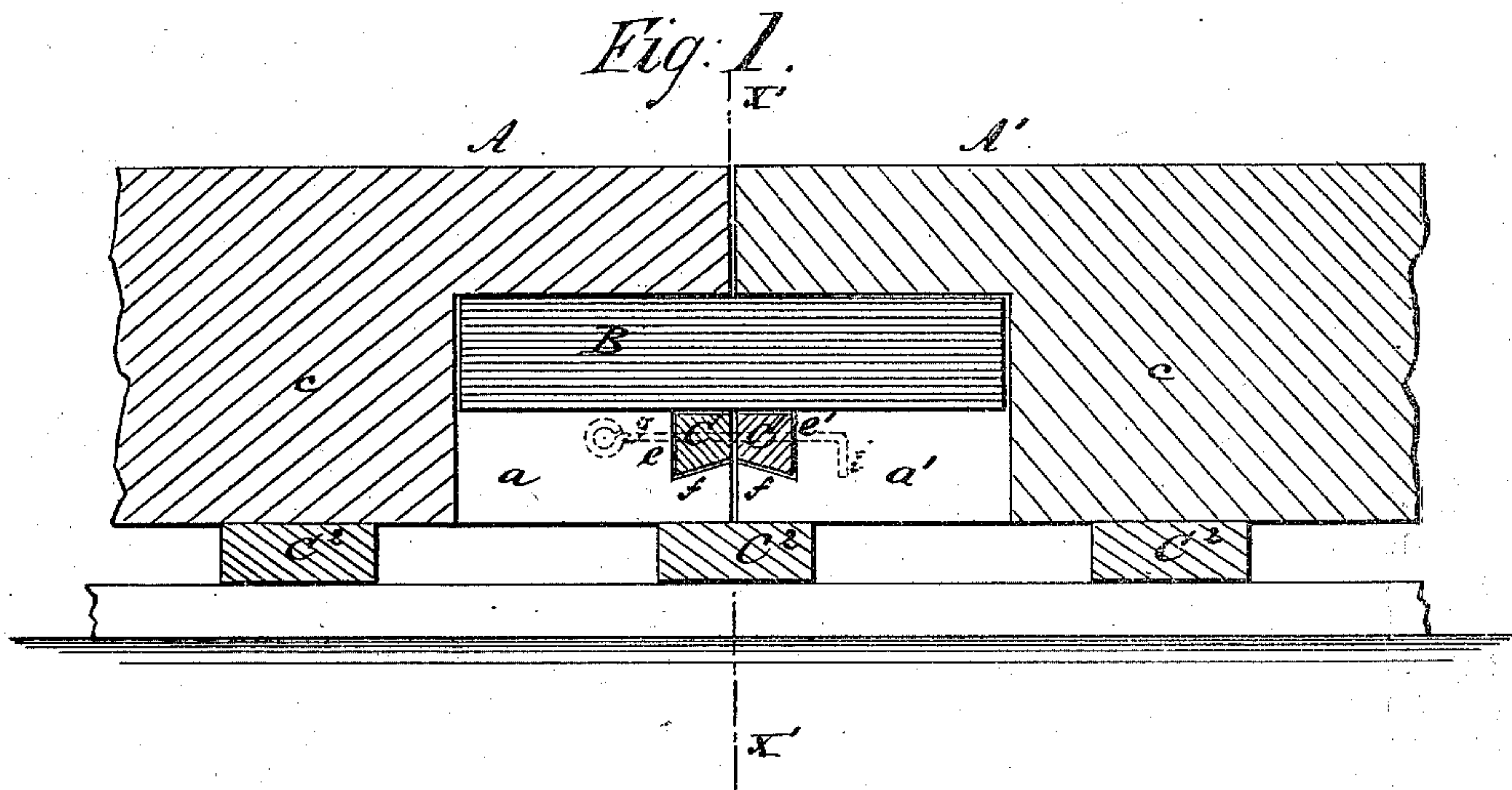


W. W. FAY.
Rail-Joint.

No. 223,899.

Patented Jan. 27, 1880.



WITNESSES:

A. Sehehl.
C. Sedgwick

INVENTOR:

W. W. Fay

BY

Henry H. Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM W. FAY, OF JEFFERSON CITY, MISSOURI, ASSIGNOR TO HIMSELF
AND CHARLES O. ADAMS, OF SAME PLACE.

RAIL-JOINT.

SPECIFICATION forming part of Letters Patent No. 223,899, dated January 27, 1880.

Application filed November 23, 1879.

To all whom it may concern:

Be it known that I, WILLIAM W. FAY, of Jefferson City, in the county of Cole and State of Missouri, have invented a new and Improved Railway-Rail Joint, of which the following is a specification.

The object of my invention is to form a strong and substantial joint between the ends of adjoining railway-rails.

The invention consists in connecting the ends of adjoining rails together by means of a metal plate inserted in slots in the adjacent ends, and also in fastening and tightening said connecting-plate in its place by means of laterally-driven dovetailed wedges.

In the accompanying drawings, Figure 1 is a vertical longitudinal section, taken on line $x x$ of Fig. 2, of my improved railway-rail joint; and Fig. 2 is a vertical cross-section of the same on line $x' x'$ of Fig. 1.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, $A A'$ are the ends of two railway-rails. In these ends $A A'$ are central longitudinal vertical slots, $a a'$, extending through the base b of the rails and upward into the webs c to the base of the heads d .

The ends $A A'$, respectively, are likewise provided with transverse dovetailed slots $e e'$, made through the webs c , with the lower dovetailed sides, f , of said slots next to the bases b of the rails.

B is a steel plate inserted in the vertical slots $a a'$, so as to join the ends $A A'$ of the rails together. $C C'$ are dovetailed wedges, which are driven, respectively, through transverse slots $e e'$ under the lower edge of steel plate B . C^2 represents the ties on which the rails rest.

The ends $A A'$ are held together by the plate B , which is driven firmly up against the top of slots $a a'$ by wedges $C C'$. The said plate B also prevents the ends $A A'$ from becoming displaced or detached vertically or laterally, and, further, it supports the ends $A A'$ against sagging.

When the wedges $C C'$ are driven through slots $e e'$ they are prevented from coming out by a rod, g , passed through holes h in the smaller ends of said wedges, said rod having its end i bent to prevent it from slipping out of the said holes h .

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

As an improvement in railway-rail joints, the rail ends $A A'$, provided, respectively, with slots $a a'$ and $e e'$, in combination with the steel connecting-plate B and wedges $C C'$, substantially as described.

WILLIAM W. FAY.

Witnesses:

C. W. THOMAS,
F. J. FRAMER.