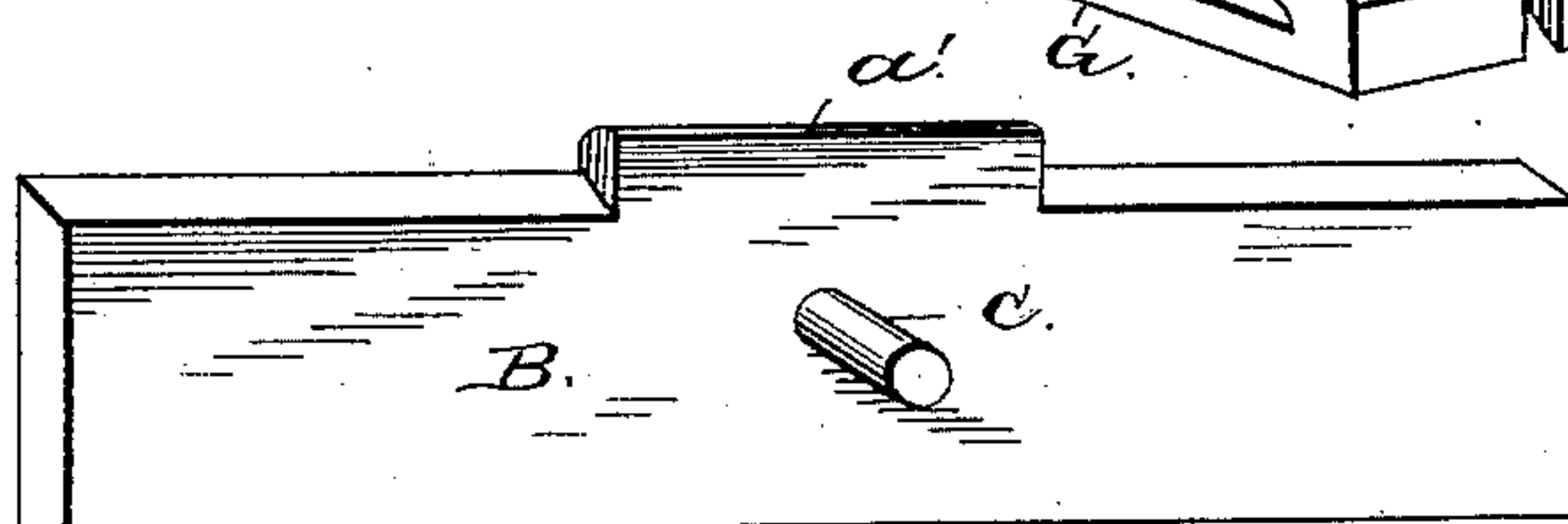
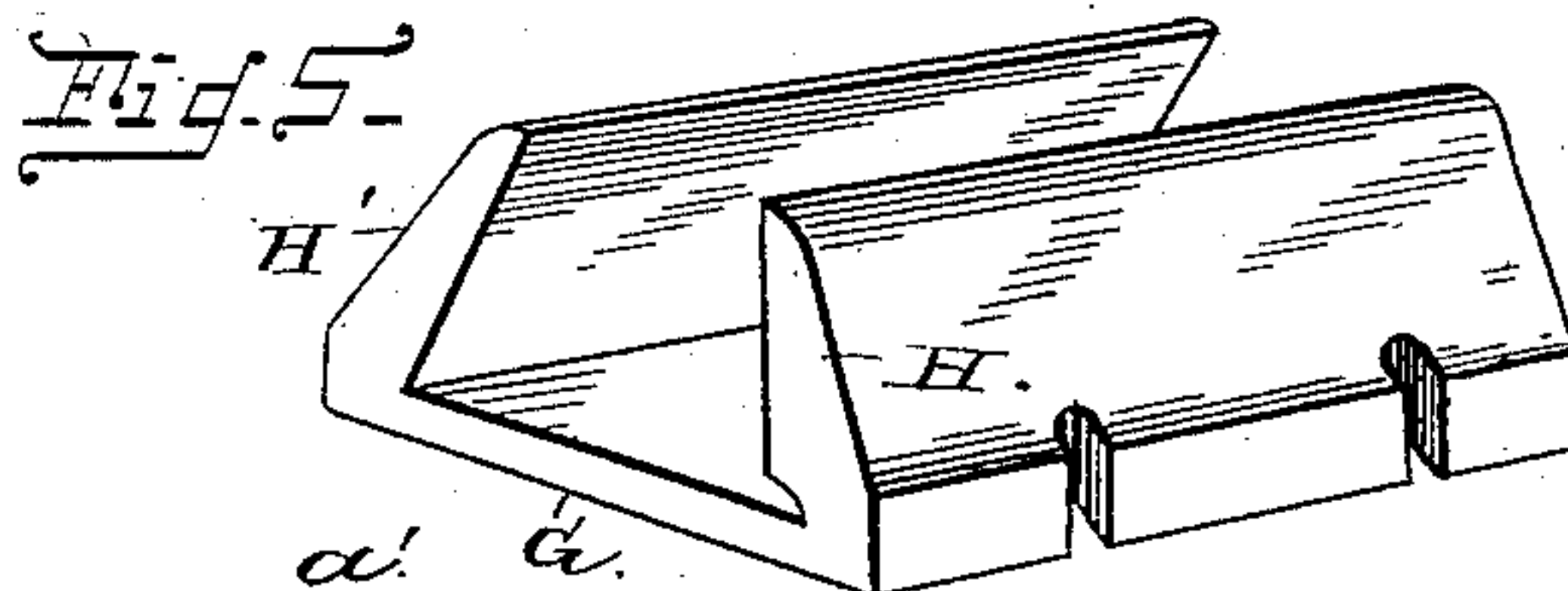
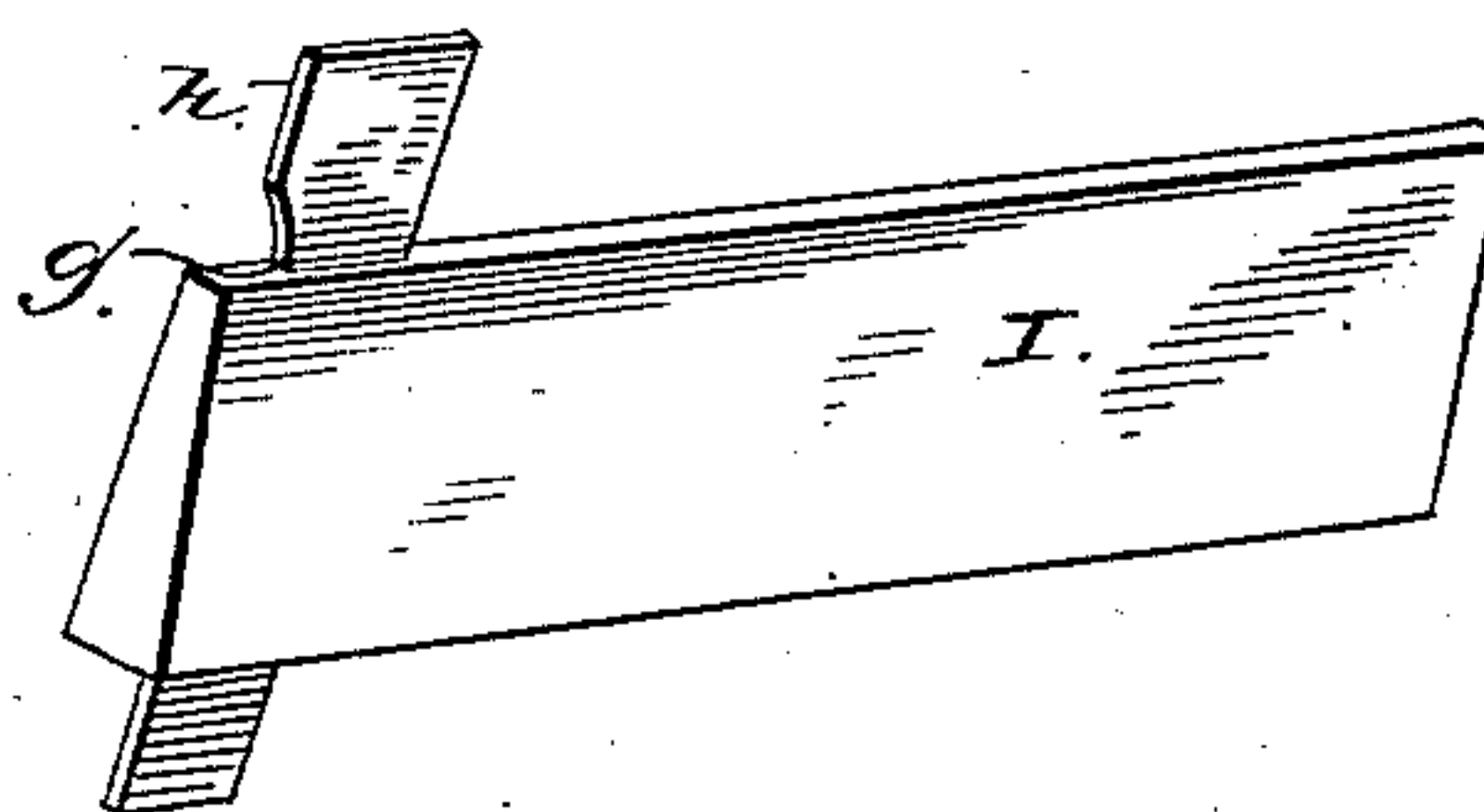
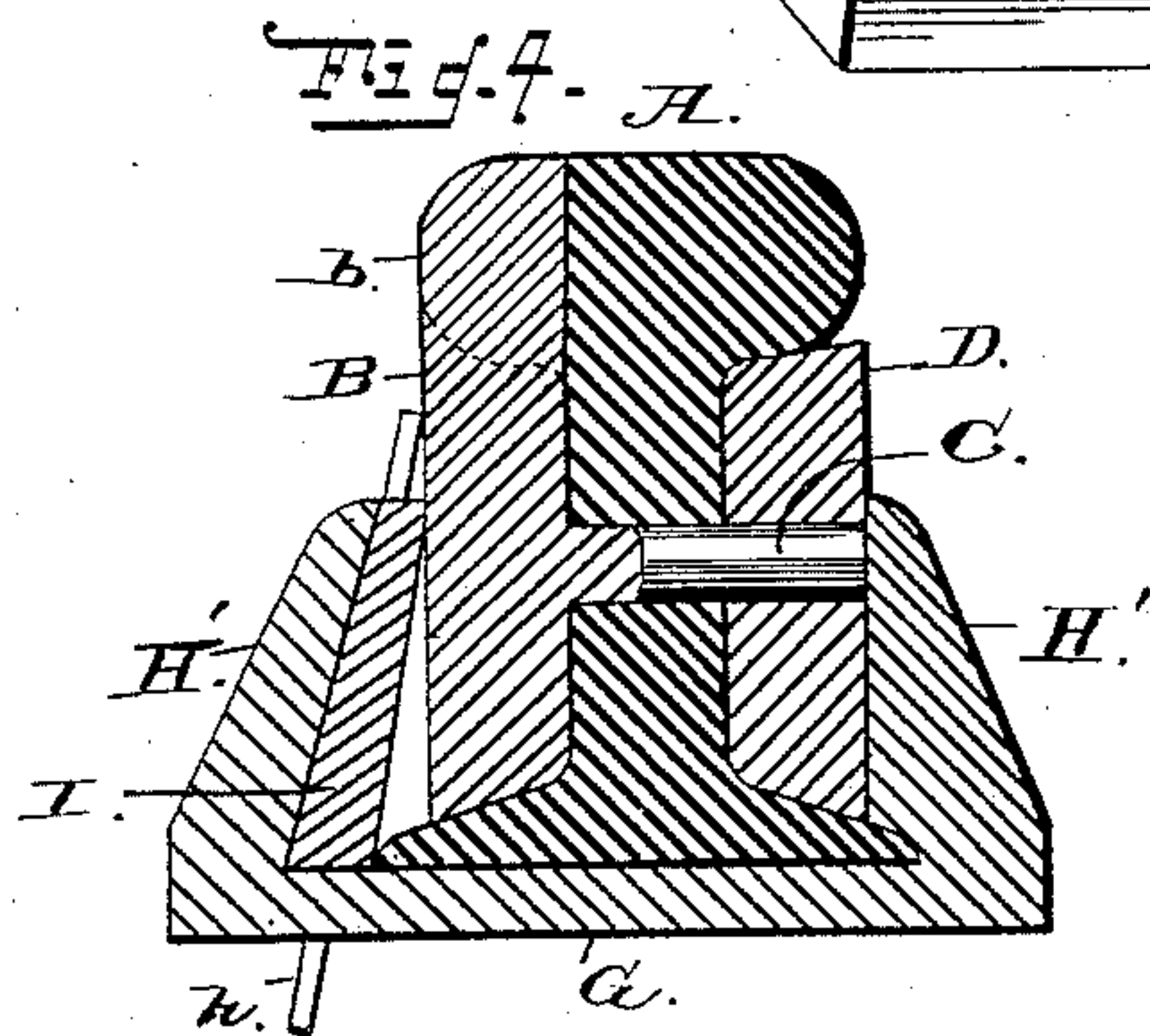
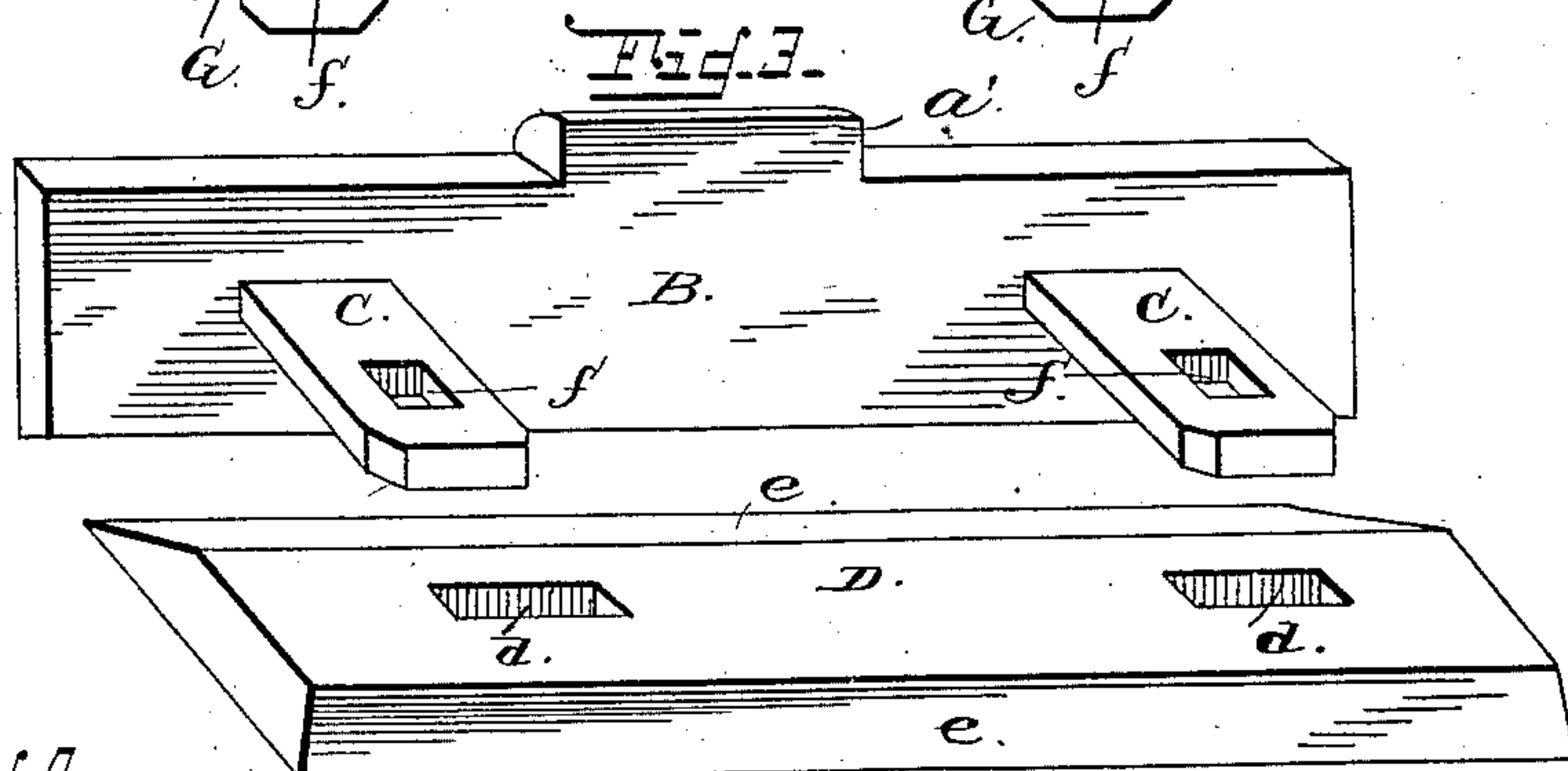
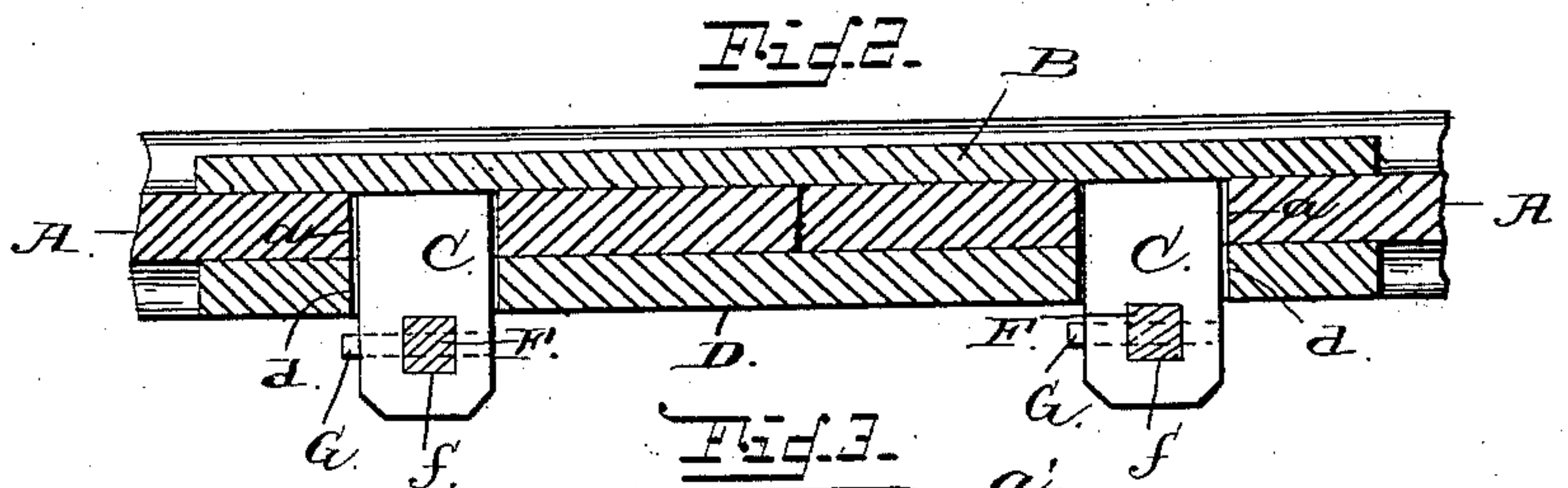
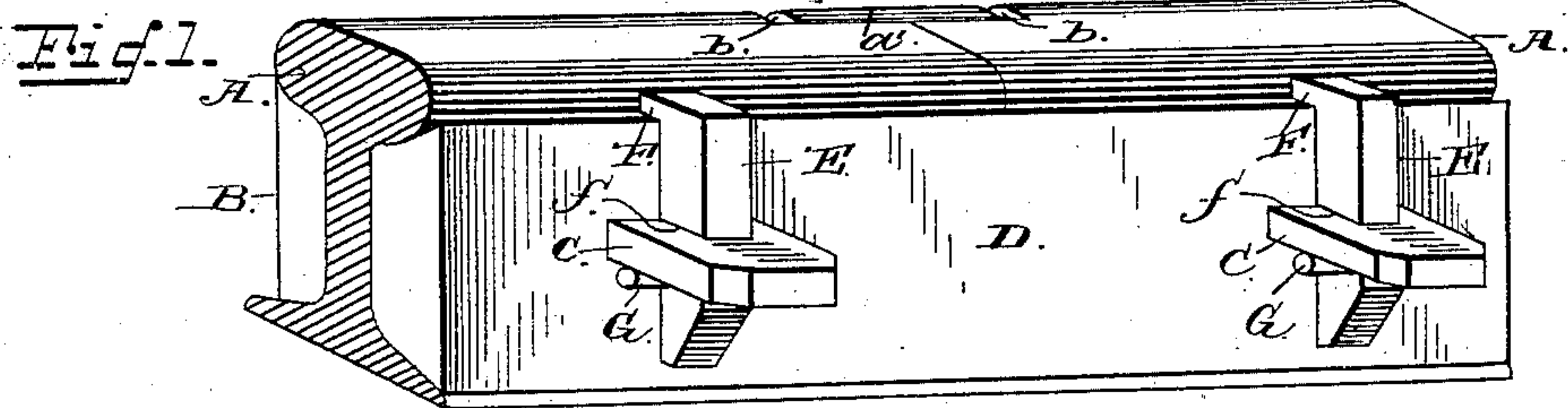


(No Model.)

J. KELLOW.
RAIL JOINT.

No. 318,189.

Patented May 19, 1885.



WITNESSES

WITNESSES

M. E. Fowler.
C. L. Siggers.

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UNITED STATES PATENT OFFICE.

JOSEPH KELLOW, OF PEN ARGYL, PENNSYLVANIA.

RAIL-JOINT.

SPECIFICATION forming part of Letters Patent No. 318,189, dated May 19, 1885.

Application filed March 2, 1885. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH KELLOW, a citizen of the United States, residing at Pen Argyl, in the county of Northampton and State of Pennsylvania, have invented a new and useful Improvement in Rail-Joints, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to a lock for securing the meeting ends of railroad-rails, and it has for its object to provide a device of this character which shall be cheap and simple in its construction, effective in its operation, and one that will be strong and durable.

With these ends in view the invention consists in the improved construction and combinations of parts hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a portion of two railroad-rails, showing my improved lock applied thereto. Fig. 2 is a horizontal section of the same. Fig. 3 is a detail view of parts detached. Fig. 4 is a cross-section of a modification, and Fig. 5 is a detail view of parts shown in Fig. 4 detached.

In the accompanying drawings, in which like letters of reference indicate corresponding parts in all the figures, A A represent portions of two railroad-rails which are provided with horizontal slots or openings *a*, which are located midway between their upper and lower ends, and a slight distance from their meeting ends. The flanges or tread of the rails are cut off on one side at their meeting ends, as shown at *b*.

B represents a fish-plate which is provided at its upper end with a rib or projection, *a'*, which, when the fish-plate is adjusted in place, is adapted to fit in the recesses *b* of the rails A A. The fish-plate B is provided with outwardly-extending flanges C C, which flanges are adapted to engage the horizontal openings or slots *a* of the rails, the ends of said flanges projecting through and beyond the rails.

D represents a plate which is provided with horizontally-disposed slots or openings *d*, which correspond to the flange on the plate B, and which are adapted to receive the flanges

which project through and beyond the said plate. The plate D is also formed with beveled upper and lower edges, *e*, to fit the rails. The openings *d* are somewhat longer than the flanges C C, as are also the recesses *b*, and slots *a* in the rails, to allow for contraction and expansion. The flanges C C are provided near their ends with holes or openings *f*, and adapted to engage said holes or openings are wedges E, having at their upper ends, on the inner sides thereof, inwardly-extending flanges F, which are adapted to be held in engagement with the upper edges of the plate D by means of keys G, which engage openings or passages formed near the lower ends of the wedges, said keys bearing tightly against the under sides of the flanges C C, with their ends thus holding them in place in said passages or openings and preventing their detachment.

In the modification shown in Figs. 4 and 5 the flange on the fish-plate B passes through recess formed in the meeting ends of the rails and engages an opening formed in the plate D. In this case a bed is employed, the same consisting of a base-plate, G, having upwardly-extending side flanges, H H', the flange H', having an inclined inner face. The ends of the rails rest upon the base-plate, and fitted between the sides of the rails and the flange H', is a wedge, I, which serves to hold the rails firmly in position. One end of the wedge I is provided with a hole or opening, *g*, in which is fitted a key, *h*, the ends of which extend beyond said opening.

It will be seen that by recessing the rails, as at *b*, and inserting the fish-plate B, therein, a smooth and even tread is provided for the wheels at their meeting ends, which is especially desirable when the rails are in a contracted state.

By the employment of fish-plates constructed as above described the use of bolts and nuts is obviated, thus preventing any of the parts from becoming loosened or detached.

It will be further apparent that interlocking plates constructed in accordance with my invention are cheap and simple, effective in their operation, and strong and durable.

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

5 The rails having slots or openings and recesses, *b*, in combination with a fish-plate having flanges provided with holes or openings, a rib on the fish-plate to fit the recesses *b*, wedges having inturned flanges, and keys to fit openings in said wedges, as set forth.

In testimony that I claim the foregoing as 10 my own I have hereto affixed my signature in presence of two witnesses.

JOSEPH KELLOW.

Witnesses:

SAMUEL KEAT,
A. C. GRASHALK.