

J. H. HAYES.
Nut-Lock.

No. 223,909.

Patented Jan. 27, 1880.

Fig. 1

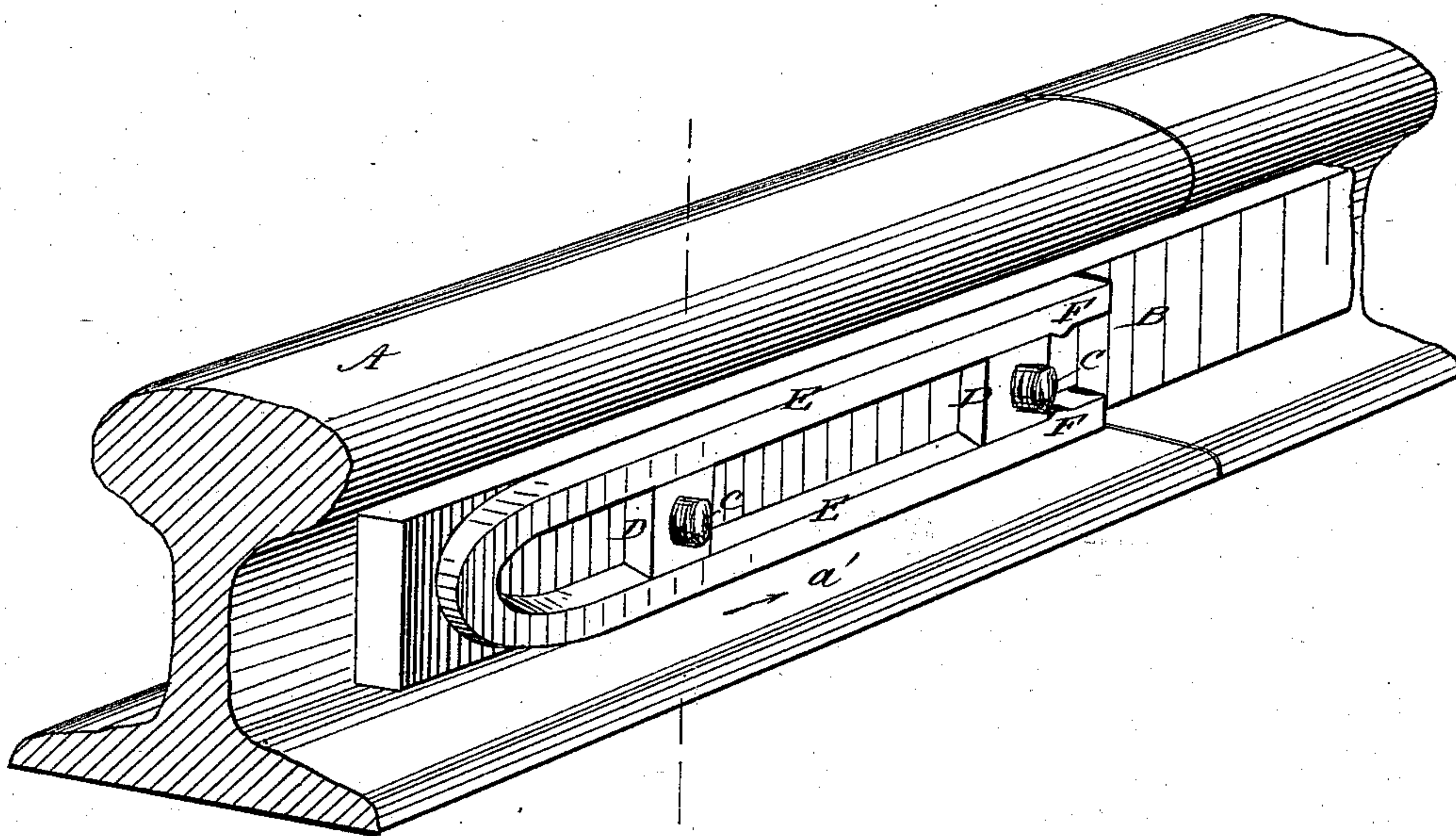
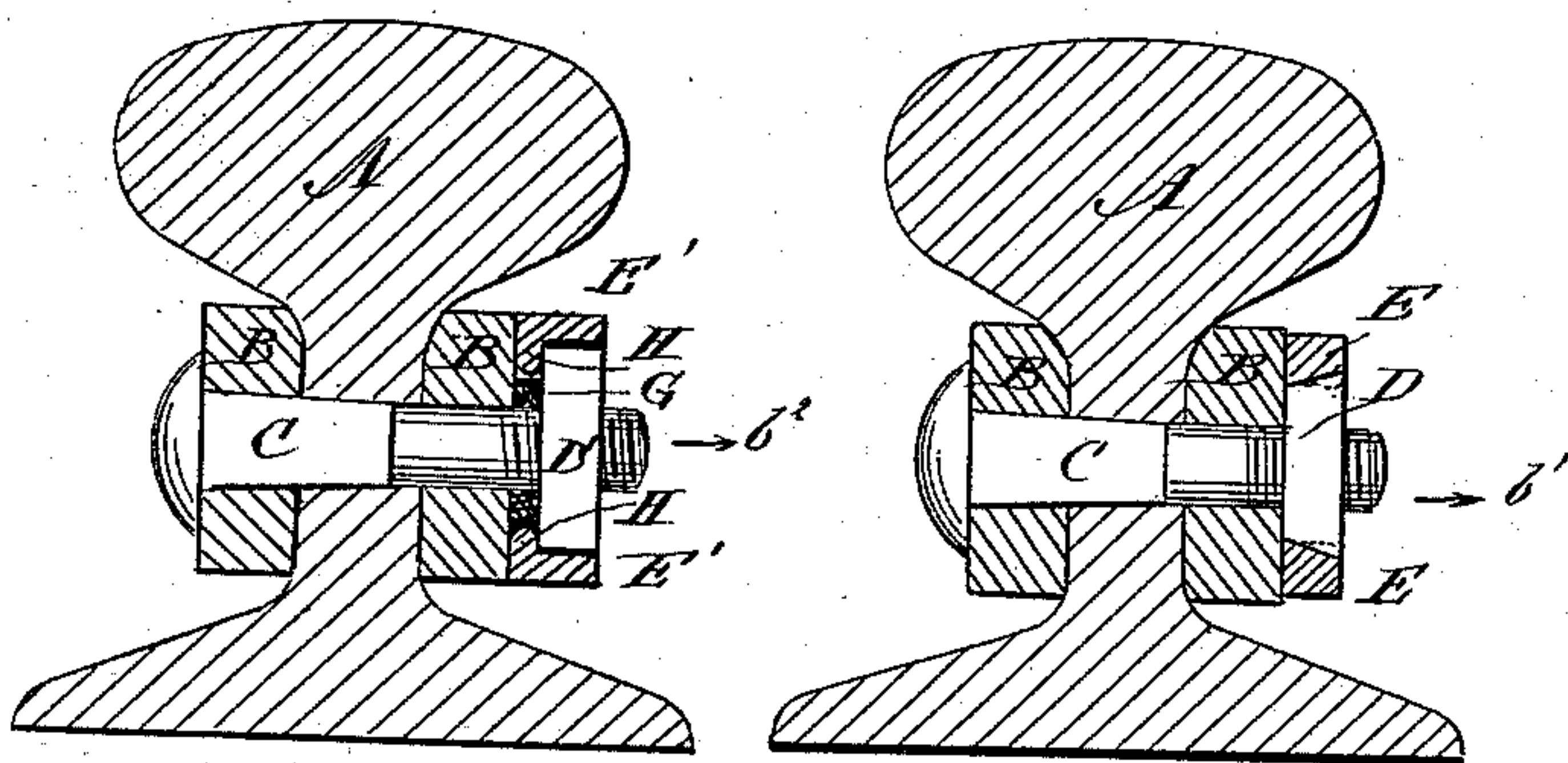


Fig. 13

Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

JAMES H. HAYES, OF CERRO GORDO, ILLINOIS, ASSIGNOR TO HIMSELF,
CHARLES J. GREENE, AND THOMAS J. WIMMER, OF SAME PLACE.

NUT-LOCK.

SPECIFICATION forming part of Letters Patent No. 223,909, dated January 27, 1880.

Application filed October 27, 1879.

To all whom it may concern:

Be it known that I, JAMES HENRY HAYES, of Cerro Gordo, in the county of Piatt and State of Illinois, have invented a new and Improved Nut-Lock, of which the following is a specification.

The object of my invention is to provide a new and improved nut-lock, which shall be simple in construction, convenient, and effective in use.

The invention consists in a nut-lock formed of U shaped spring, which is provided with small lugs at the forward ends.

In the accompanying drawings, Figure 1 shows a perspective view of one part of a rail-joint with fish-plates provided with my improved nut-lock. Fig. 2 represents a vertical cross-section of the same. Fig. 3 is a vertical cross-section of a modification of the same.

Similar letters of reference indicate corresponding parts.

A represents a rail, and B B the fish-plates that connect this rail A with the adjoining rail. C C are the bolts, of which there are two in each end of the rail, which bind the fish-plates to the rails.

D D are the nuts, provided with inwardly-beveled sides, and E represents my improved nut-lock, formed of a U-shaped strip of metal with outwardly-beveled edges on the inner sides, and provided with lugs F F at the ends.

The strip E is passed over the edges of the nuts, and is driven forward in the direction of the arrow *a'* until it is in the position shown

in Fig. 1. The ends separate sufficiently to let the lugs F F glide over the nuts; but the spring of the metal will press the strip closely to the nuts, so that the lugs F F can prevent any accidental movement in the direction of the length of the strip. The bevel of the strip and the nuts will prevent any movement in the direction of the arrow *b'*.

The invention may be modified, as represented in Fig. 3. The U-shaped strip E' and the nuts D' are not beveled; but a washer, G, is interposed between the nut D' and the fish-plate B, and the strip E' is provided with a flange, H, on the side, resting against the fish-plate B. This flange passes into the space between the nut D' and the plate B, and prevents the strip from being moved in the direction of arrow *b''*, in the same manner that the beveled strip prevents the beveled nuts from moving, as described above. The ends of the strip are also provided with the lugs F F, for the purpose described above.

This nut-lock, as above described, can be used for any number of nuts exceeding two.

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

In nut-locks, the U-spring E, having lugs F, and adapted to be driven on the nuts, as described.

JAMES H. HAYES.

Witnesses:

T. J. WIMMER,
H. M. GREEN.