

L. BELAND.

CLAMPS FOR HOLDING RATCHET-DRILLS FOR DRILLING
RAILROAD RAILS.

No. 186,225.

Patented Jan. 16, 1877.

Fig. 1.

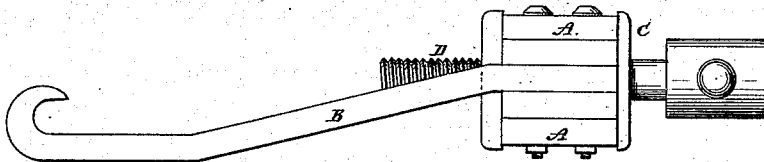


Fig. 2.

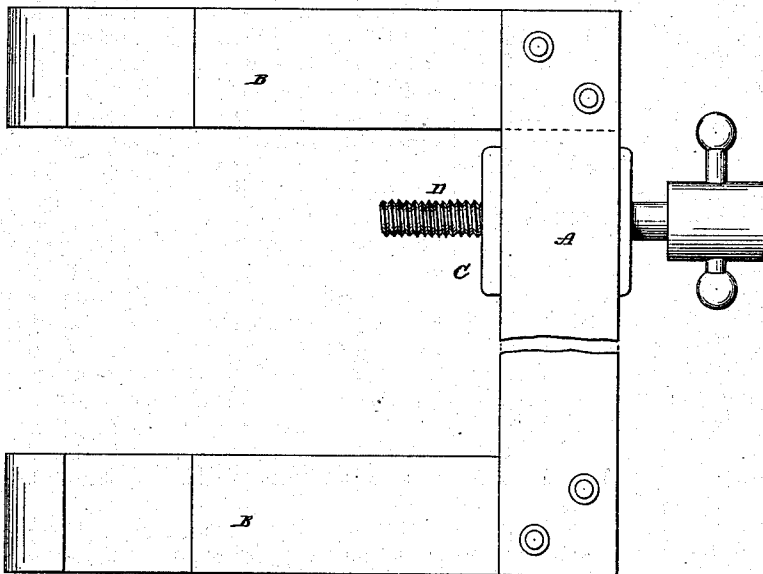
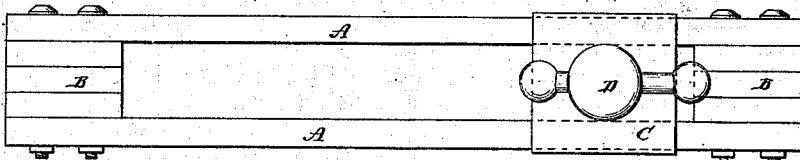


Fig. 3.



WITNESSES:

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INVENTOR:

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UNITED STATES PATENT OFFICE.

LOUIS BELAND, OF NORTH SPRINGFIELD, MISSOURI.

IMPROVEMENT IN CLAMPS FOR HOLDING RATCHET-DRILLS FOR DRILLING RAILROAD-RAILS.

Specification forming part of Letters Patent No. **186,225**, dated January 16, 1877; application filed November 18, 1876.

To all whom it may concern:

Be it known that I, LOUIS BELAND, of North Springfield, in the county of Greene and State of Missouri, have invented a new and Improved Drilling-Clamp, of which the following is a specification:

Figure 1 is an end view. Fig. 2 is a plan view, and Fig. 3 is a front view.

Similar letters of reference indicate corresponding parts.

My invention relates to improved apparatus for holding and feeding ratchet-drills employed in drilling fish-plates while in place on the rails; and it consists of a clamp formed of two parallel bars of iron or steel, forming ways for a sliding nut, through which the clamping or feeding screw passes. The said bars are connected at each end with hooks of peculiar form, which are capable of engaging with the lower side of the rail.

Referring to the drawing, A A are bars of iron or steel, which are bolted at each end to hooks B, and are separated by blocking or by bending the ends of the bars so as to be capable of receiving the nut C, which is flanged on each side, so that it may retain its place between the bars. It is threaded to receive the screw D, which is provided with the ordinary lever-handle or hand-wheel, and is countersunk in its smaller or inner end to receive the pointed end of a ratchet-drill stock.

The hooks B are bent so that they engage the flange at the lower side of the rail, and are offset to bring the screw D opposite the line of the holes in the fish-plates.

The clamp is used by placing the hooks B upon the flange of the rail, and placing the point of the ratchet-drill stock in the cavity in the end of the screw D, and placing the drill in the center-mark of the hole to be made, and feeding up the drill by means of the clamp-screw D.

As the hooks (when the clamp is used) are attached so that they pass under the rails, the apparatus is not in the way of passing trains, and need not be removed until the required number of holes are drilled.

The nut carrying the feeding-screw is capable of being adjusted to any number of holes within the limit of the length of the parallel bars.

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

A drilling-clamp, consisting of the bars A and hooks B, bolted together and combined with the flanged movable nut C and screw D, as shown and described.

LOUIS BELAND.

Witnesses:

JAMES R. MACCABE,
FRANK DOYLE.