

J. E. WARREN.
Fences.

No. 152,535.

Patented June 30, 1874.

Fig. 1.

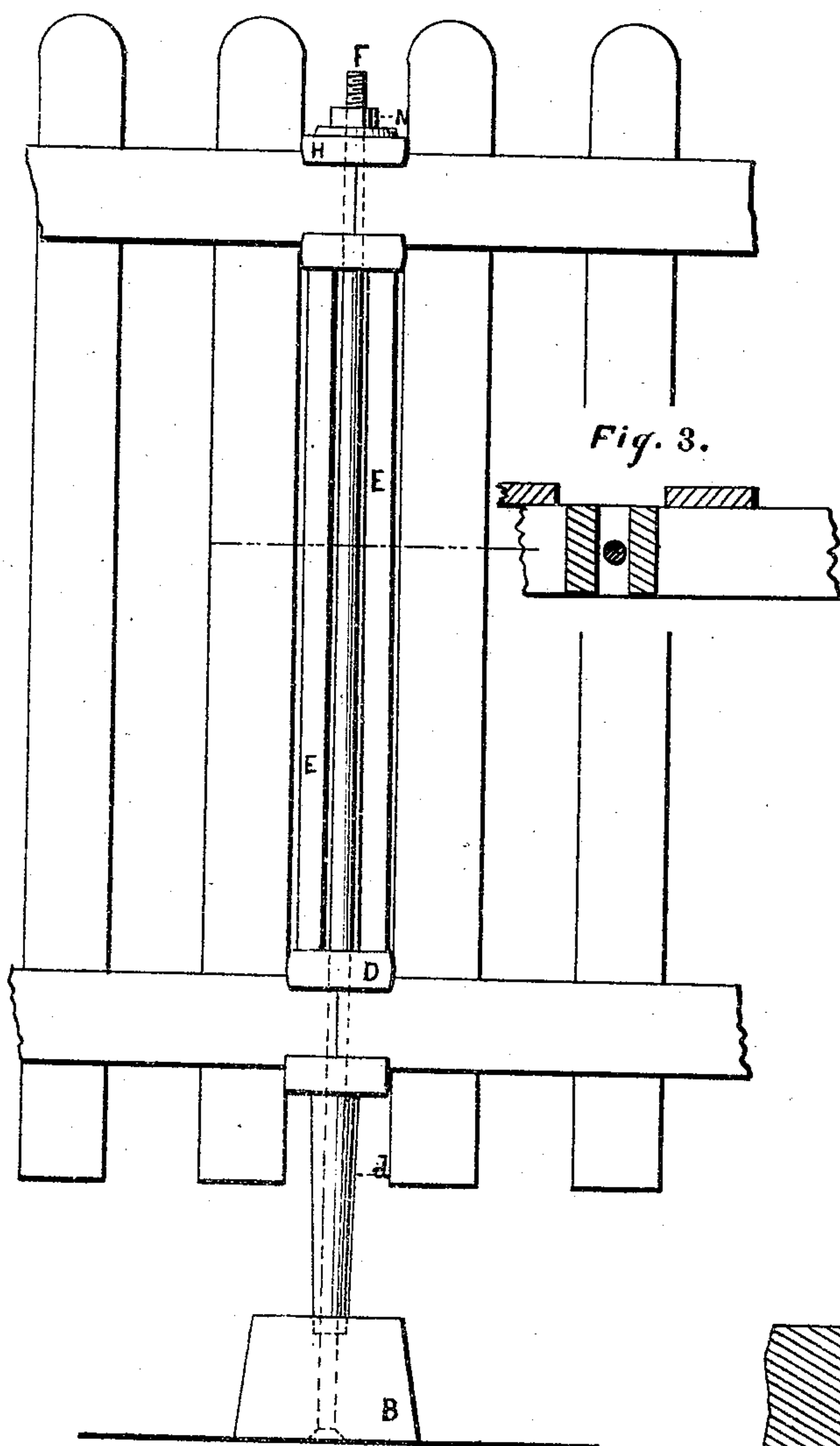


Fig. 3.

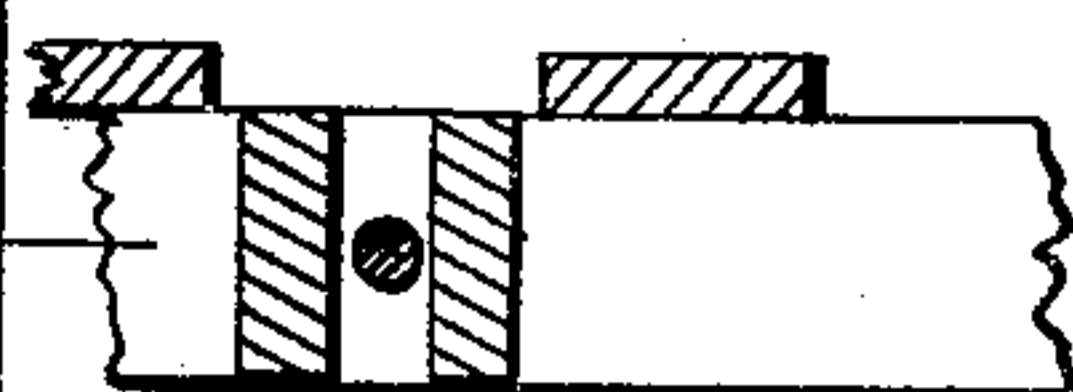
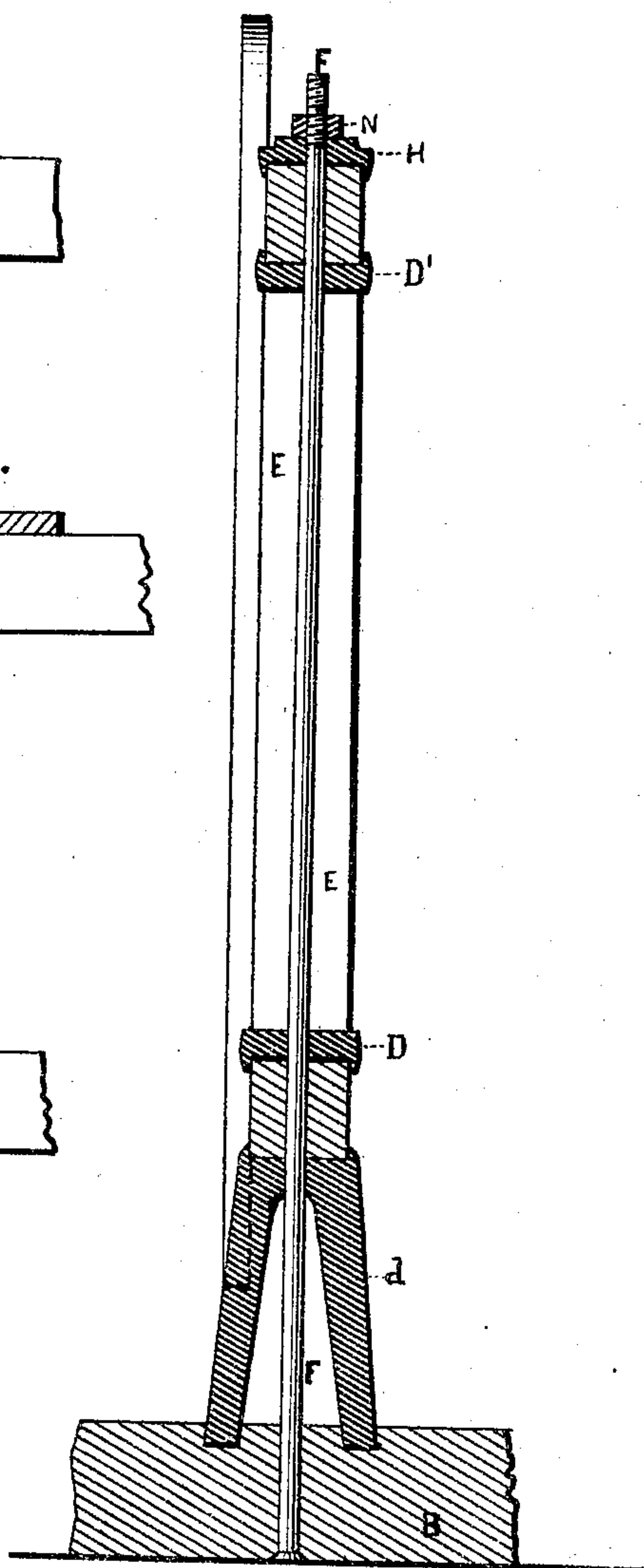


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOHN E. WARREN, OF WESTBROOK, MAINE.

IMPROVEMENT IN FENCES.

Specification forming part of Letters Patent No. **152,535**, dated June 30, 1874; application filed February 5, 1874.

To all whom it may concern:

Be it known that I, JOHN E. WARREN, of Westbrook, in the county of Cumberland and State of Maine, have invented certain new and useful Improvements in Posts for Fences; and I hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The object of my invention is to make an improvement on the ordinary mode of fencing when an iron rod is used for a post, whether secured to a stone, wood, or cast-iron base, in connection with wooden longitudinal rails, of any number, length, or form.

It consists of cast-iron couplings for connecting the ends of the rails, and securing them to the rod, these couplings being held in position on the rod by upright studs of wood, and the whole secured by a nut upon the end of the rod, holding all the parts firmly in their proper positions, and adding strength and rigidity to the whole construction.

Figure 1 is a rear elevation. Fig. 2 is a transverse section, and Fig. 3 is a horizontal section.

My post is constructed as follows: A rod, F, is secured to a suitable base, B, having a nut, N, and screw upon its upper end. A bottom plate or stand, *d*, encircles the rod, of suitable shape to receive the ends of two connecting bottom rails, the ends of which are gained out to admit the rod; the washer-plates or couplings D and D' encircle the rod, and are placed on the upper and lower sides, respectively, of any two adjacent and parallel

continuous lines of rails. The washer-plates are provided with short points or dogs and narrow flanges to include and secure the ends of the rails, which are gained out, as before mentioned, to admit the rod; also, with shallow mortises on their transverse sides, to receive the ends of the studs. The studs E E are of wood, of suitable size and shape, and of such length as to maintain the continuous lines of rails at any desired distance from each other. One is placed on each side of the rod, the ends being inserted in the shallow mortises in the washer-plates before mentioned, and by their position serving likewise to brace up and stiffen the rod. The cap H may likewise be provided with dogs and flanges, for the purpose heretofore described. This cap serves as a washer for the nut N, which, being screwed down, brings all the parts into their proper relative position, and firmly secures the whole. The drawing shows a fence where only two longitudinal rails are used, and these of a rectangular cross-section, intended as the framework for pickets or upright slats.

What I claim as my invention, and desire to secure by Letters Patent, is—

A fence-post made of cast-iron couplings, for securing the ends of longitudinal rails to each other and to the rod or post, the same being held in their proper relative positions by upright studs of wood, and the whole being secured by a nut and screw upon the end of the rod, substantially as specified.

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Witnesses:

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