

(No Model.)

S. W. HUDSON.

INSTRUMENT FOR TAMPING THE BEDS OF RAILWAY TIES.

No. 273,363.

Patented Mar. 6, 1883.

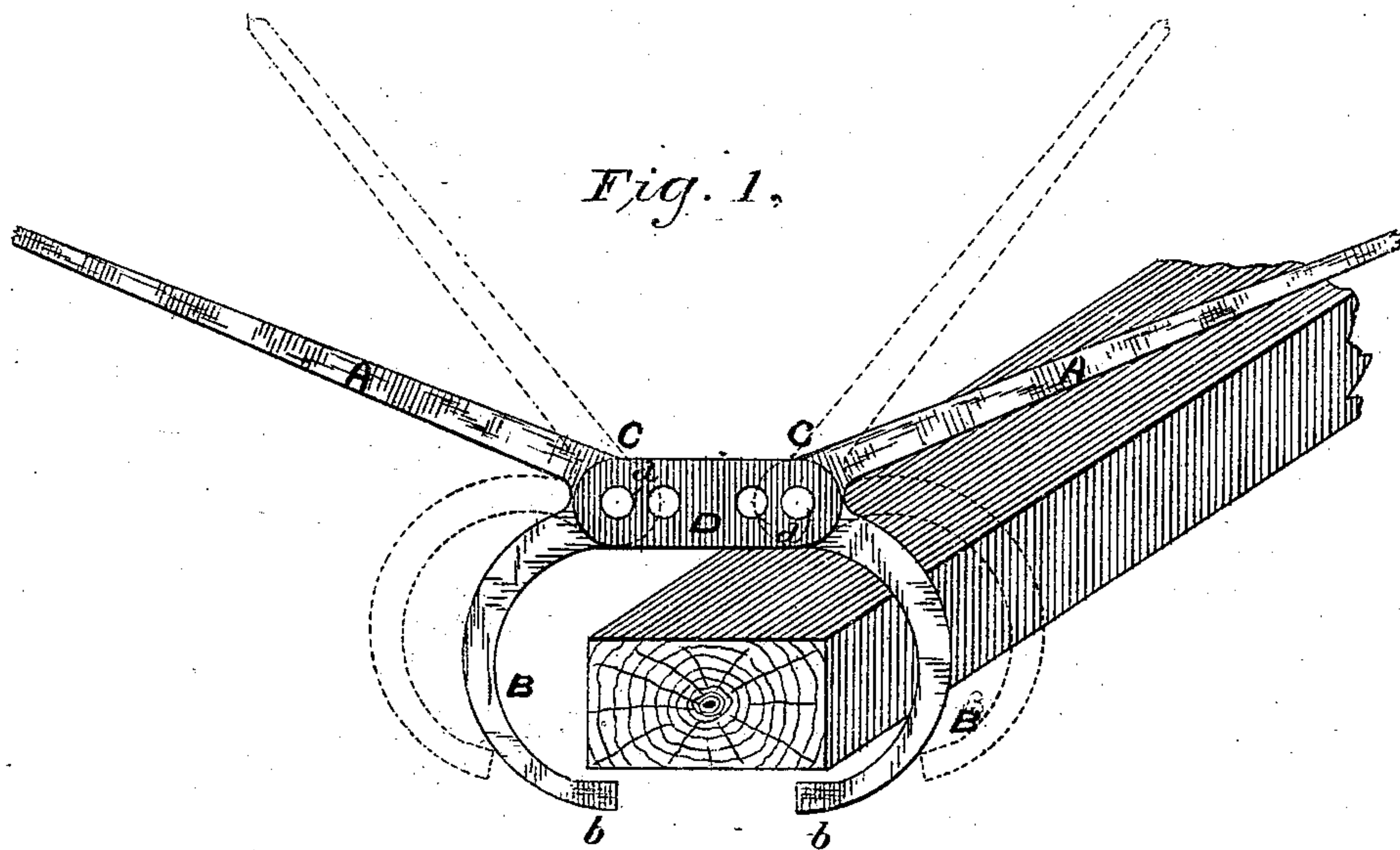


Fig. 2.

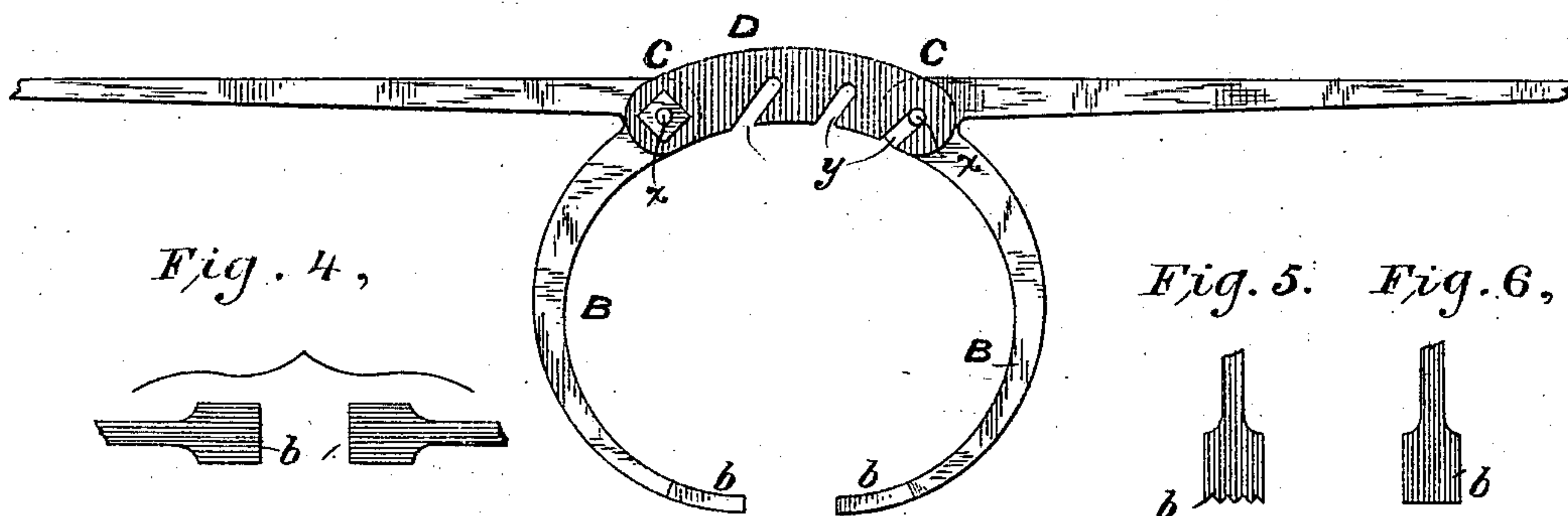
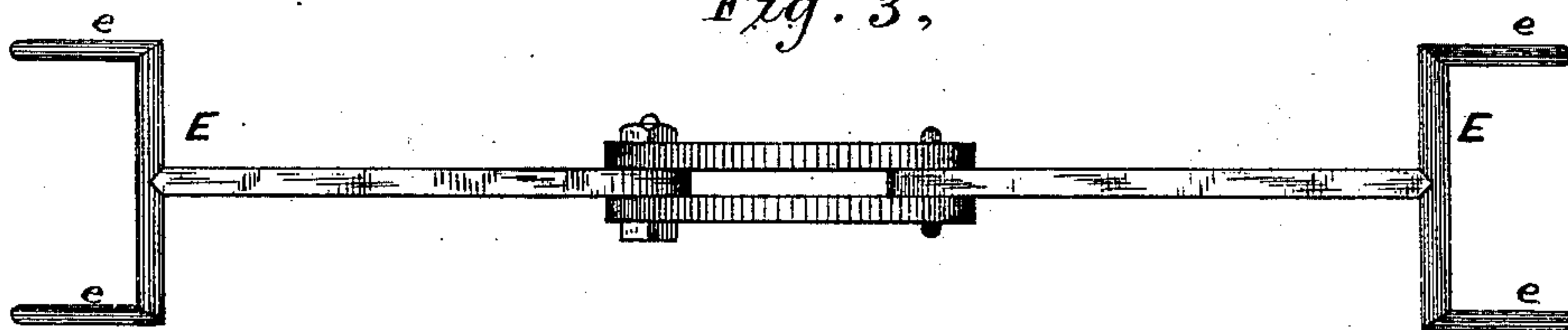


Fig. 3.



WITNESSES

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SAMUEL W. HUDSON, OF HUDSONDALE, PENNSYLVANIA.

INSTRUMENT FOR TAMPING THE BEDS OF RAILWAY-TIES.

SPECIFICATION forming part of Letters Patent No. 273,363, dated March 6, 1883.

Application filed November 13, 1882. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL W. HUDSON, of Hudsondale, in the county of Carbon and State of Pennsylvania, have invented an Improved Instrument for Tamping the Beds of Railway-Ties, of which the following is a specification.

The object of my invention is to provide an instrument by which earth or ballast may be firmly packed under the ties of a railroad-track. This may be necessary either in laying new roads in order to give a firm, durable bed to the ties, and also in repairing old tracks, where the ties have sunk and the road must be leveled up.

In the accompanying drawings, Figure 1 is a perspective view of my improved instrument, shown in its relation to a railroad-tie. Fig. 2 is a side elevation of an instrument of somewhat different construction from that illustrated in Fig. 1. Fig. 3 is a plan view of my improved instrument, showing a double hand-piece on the end of each handle; and Figs. 4, 5, and 6 are detail views, showing the shapes of the tamping-heads or thrust ends of the instrument.

The heads shown in Figs. 4 and 6 are intended to be used especially for tamping in sand and earth under a tie, while the serrated head (shown in Fig. 5) is intended more especially for stone.

The instrument consists of two like parts having a handle, A, and a curved arm or jaw, B, which curves somewhat backwardly toward the handle, and is pivoted at the apex or corner C thus formed in a connecting link or block, D. This block is provided with a series of apertures, *d*, so that the two parts of the instrument may be adjusted toward or from each other. The end of each curved arm or jaw B is formed with or provided with an enlarged end or tamping or thrust head, *b*, such as shown in the various figures.

By applying the instrument over a rail, as illustrated in Fig. 1, and alternately raising and forcing down the handles the tamping material or ballast can be firmly driven and compacted under the tie.

In Fig. 2 a different means of adjustment is illustrated. In this figure a slotted link or connecting-block is shown, and one of the parts of the instrument is permanently pivoted in one end of it. The other half of the instrument is provided with a bearing-pin, *x*, which may be placed in either pair of a series of inclined slots, *y*, in the connecting-block.

In Fig. 3 I have shown an instrument having a cross-piece, E, upon the end of each handle provided with two hand-pieces, *e e*.

I have described my improved instrument as designed more especially for tamping railroad-ties; but it may of course be used for a like operation elsewhere.

I am aware that it is not new to employ a tamping-instrument consisting of two curved jaws pivoted together and operated by an arm or lever connected with the jaws by means of jointed links or arms, and I make no claim thereto.

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

1. The combination of the handles, the curved or bent jaws having tamping or thrust heads, and the connecting link or block in which the opposite parts of the instrument are pivoted.

2. The tamping-implement consisting of the combination, substantially as set forth, of two rigid pivoted independently-movable handles, each having a curved or bent arm or jaw, and a tamping or thrust head on the end of each of said arms.

3. The combination, substantially as set forth, of the handles, the curved or bent jaws having the tamping or thrust heads, the connecting link or block, and the series of pivoting-apertures in said block, by means of which the opposite parts of the instrument may be adjusted toward or from each other.

In testimony whereof I have hereunto subscribed my name.

SAMUEL W. HUDSON.

Witnesses:

ALBERT H. LUCKENBACH,
E. F. LUCKENBACH.