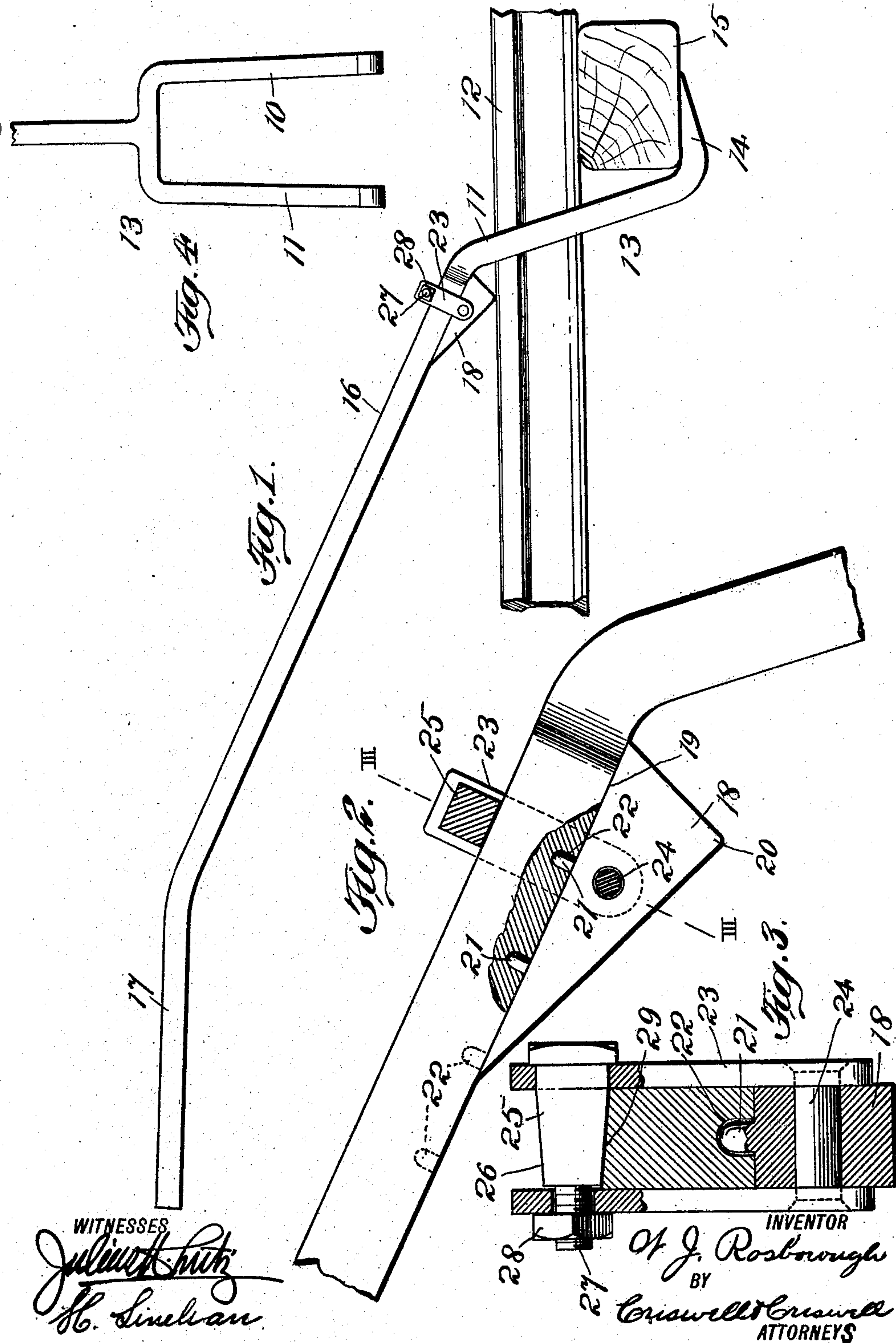


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TIE-HOLDER.

No. 900,960.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM J. ROSBOROUGH, a citizen of the United States, and resident of New York, county and State of New York, have invented certain new and useful Improvements in Tie-Holders, of which the following is a full, clear, and exact description.

This invention relates more particularly to a holder for railroad cross-ties while spiking the rails thereto.

The primary object of the invention is to provide a simple and efficient device which is adapted to span the rail and to grip the tie on the under side thereof in such a way that one person may properly hold the tie to the rail while the latter is being spiked; and to provide means whereby the holder may be made adjustable to adapt the device for different sizes of rails and cross-ties.

A further object of the invention is to provide simple and efficient means whereby a heel may be adjustably and rigidly held to the holder.

With these and other objects in view the invention will be hereinafter more particularly described with reference to the accompanying drawings, which form a part of the specification, and will then be pointed out in the claims at the end of the description.

In the drawings, Figure 1 is a side elevation of one form of device embodying my invention, showing the application of the same to a rail and cross-tie. Fig. 2 is an enlarged fragmentary elevation, partly in section, showing the adjustable heel and means for securing the same in various positions. Fig. 3 is an enlarged section, partly in elevation, taken on a line III—III of Fig. 2; and Fig. 4 is a fragmentary front elevation of the forked end of the device.

The device has the prongs 10 and 11 which are adapted to span the railroad rail 12, and said prongs form a forked end 13 and are each provided with angularly disposed ends 14 of a length sufficient to extend about midway or slightly beyond the center of the cross-tie 15, so that when the pressure is brought to bear on the forked end 10, the ends 14 will hold the tie and rail in their proper relative positions for spiking. A handle 16 projects at an angle to the forked end 13 and said handle may be integral with said forked end or the prongs 10 and 11 may be made separate and fastened thereto as desired, and said

handle 16 has its outer end 17 so formed that it will be in a substantially horizontal position while in use and forcing the tie and rail together.

To make the device adjustable and suitable for different weights and sizes of rails and also different sizes of cross-ties 15, I provide a heel or member 18. This heel or member 18 is held to the handle adjacent to the forked end 13 and is substantially triangular in shape and has its edge 19 adapted to rest snugly against the under surface of the handle 16 and is provided with a part 20 which is adapted to rest on the upper surface of the rail. The heel 18 is provided with projections or teats 21 which enter recesses 22 in the handle, the said recesses being of any desired number according to the adjustment to be given to the heel 18.

A link 23 is held to the heel 18 on each side thereof by means of a bolt or rivet 24, and the upper end of said links are provided with openings through which a bolt 25 is adapted to be inserted. This bolt is provided with a rectangular body portion 26 which may be slightly tapered and is provided with a screw-threaded end 27 on which is a nut 28. The body portion 26 is adapted to engage a beveled portion 29 of the handle 16 so that by removing the bolt the heel 18 may be removed, and on replacing the heel and the bolt and tightening the nut 28, the tapering body portion 26 by engaging the beveled portion 29 will force the heel 18 snugly against the under surface of the handle 16 and will rigidly hold the same to said handle. By this means the heel may be made adjustable and the device is thereby adapted for use in connection with the different sizes of rails and different sizes of cross-ties.

From the foregoing it will be seen that a simple and efficient device is provided in which the cross-tie may be properly held to the rail from one side only thus avoiding the necessity of requiring a holder or other device on each side thereof and the employment of additional help for different devices; that simple means are provided for adjusting the device in such a way as to secure the proper purchase for the handle while using the device and the said device may be cheaply made and is adapted for use in connection with different sizes of rails and cross-ties.

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

1. A device of the character described, comprising a handle, a forked end having prongs angularly disposed with respect to the handle and provided with ends formed at an angle to the prongs and adapted to engage the under side of the tie, an adjustable heel secured to the handle, and means for adjusting the heel along the handle.

2. A device of the character described, comprising a handle, a forked end having prongs provided with ends formed at an angle to the prongs and adapted to engage the underside of the tie, an adjustable heel secured to the handle adjacent to the forked end and means for adjusting the heel along the handle.

3. In a device of the character described, the combination with a handle and a forked end adapted to engage a rail tie, of a substantially triangular heel having projections or teats thereon, said handle having recesses for the teats along the under side thereof and provided with a bevel upper part, links secured to the opposite sides of the heel and having openings at the upper end thereof, a bolt having a tapering body portion adapted to engage the bevel part of the handle, and a nut for engaging the bolt for locking the heel adjustably to the handle.

4. In a device of the character described, the combination with a handle and a forked end having prongs adapted to engage a rail tie, of a heel having teats thereon, said

handle having recesses for the teats along the under side thereof, links secured to the opposite sides of the heel and having openings at the upper end thereof, and a bolt for locking the heel adjustably to the handle.

5. In a device of the character described, the combination with a handle having two prongs adapted to engage a rail tie, of a substantially triangular heel having teats thereon said handle having recesses for the teats along the under side thereof, links secured to the opposite sides of the heel and having openings at the upper end thereof, and a bolt having a tapering body portion adapted to engage the handle for locking the heel adjustably to the handle.

6. In a device of the character described, the combination with a handle and a forked end having prongs adapted to engage the rail tie, of a substantially triangular heel having teats thereon said handle having recesses for the teats along the under side thereof and provided with a bevel upper part, links secured to the opposite sides of the heel and having openings at the upper end thereof, a bolt adapted to engage the bevel part of the handle, and a nut on the bolt for locking the heel adjustably to the handle.

This specification signed and witnessed this nineteenth day of March A. D. 1908.

WILLIAM J. ROSBOROUGH.

Witnesses:

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