

No. 705,617.

Patented July 29, 1902.

A. SCHOLER.
METALLIC TIE AND RAIL FASTENER.

(Application filed Mar. 8, 1902.)

(No Model.)

Fig. 1.

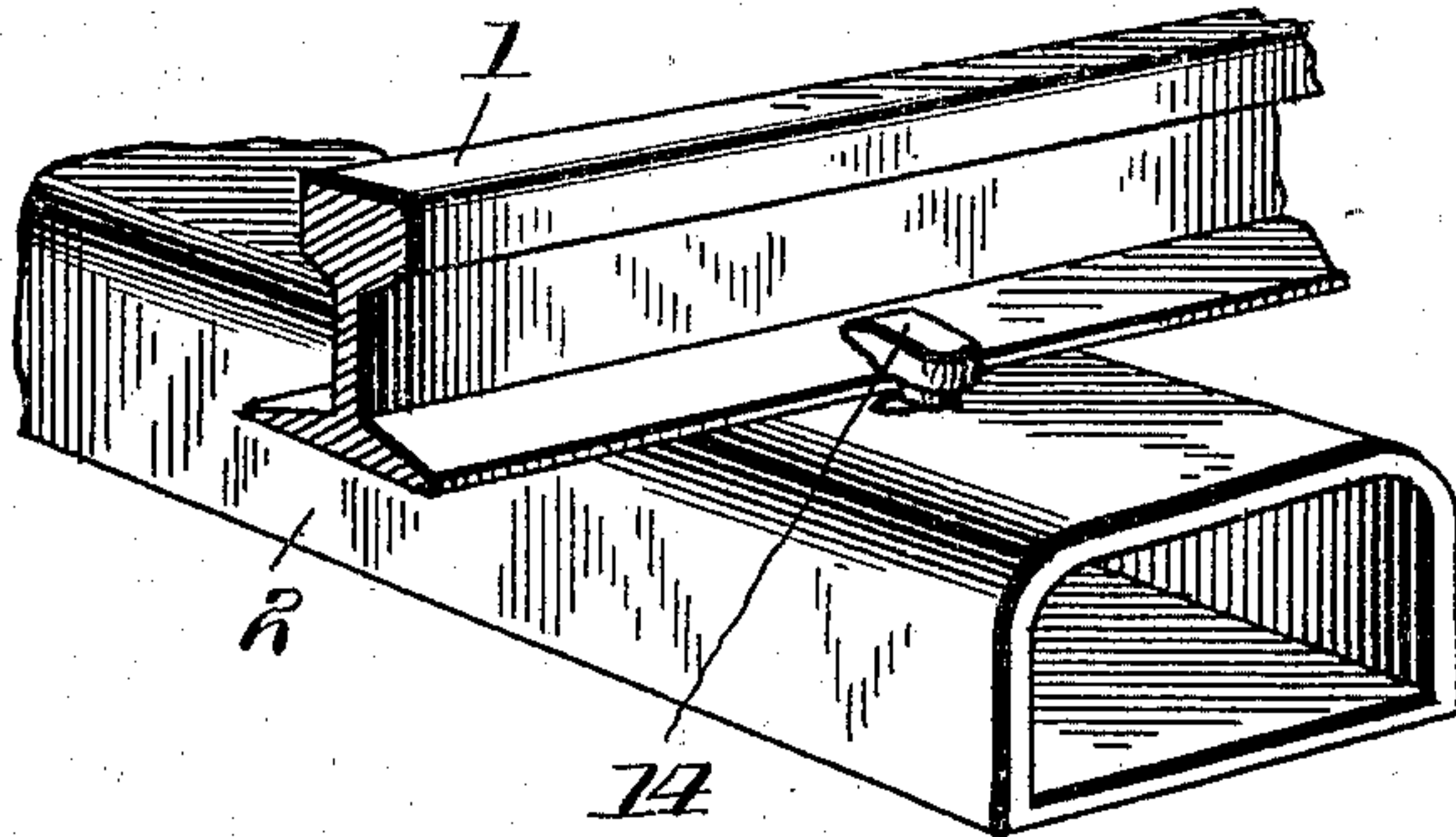


Fig. 2.

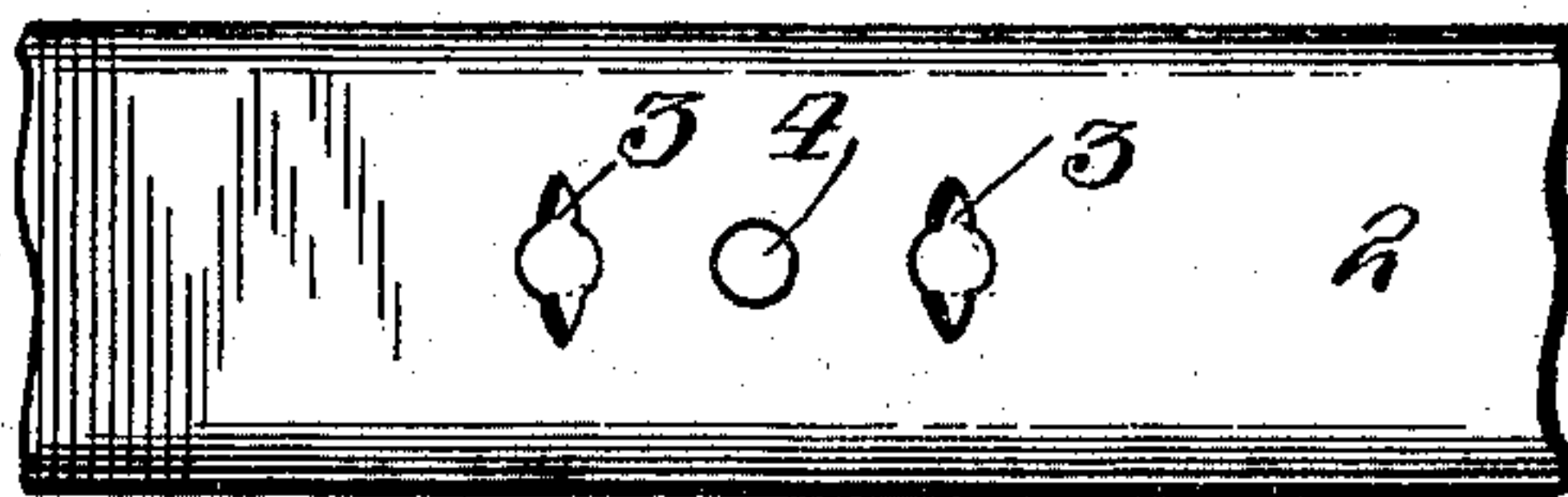


Fig. 3.

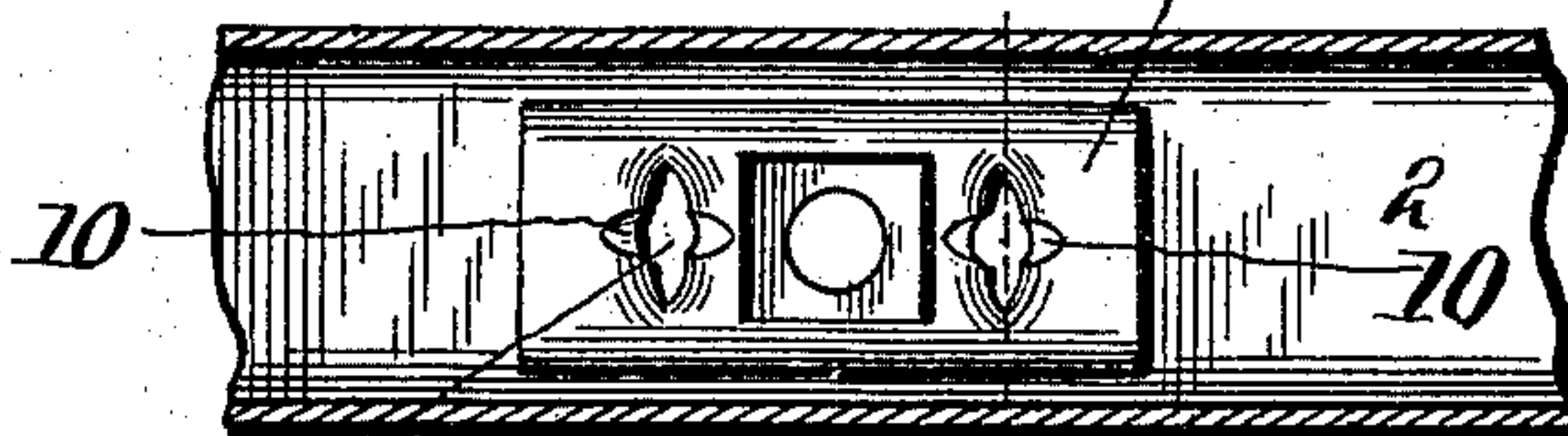


Fig. 4.

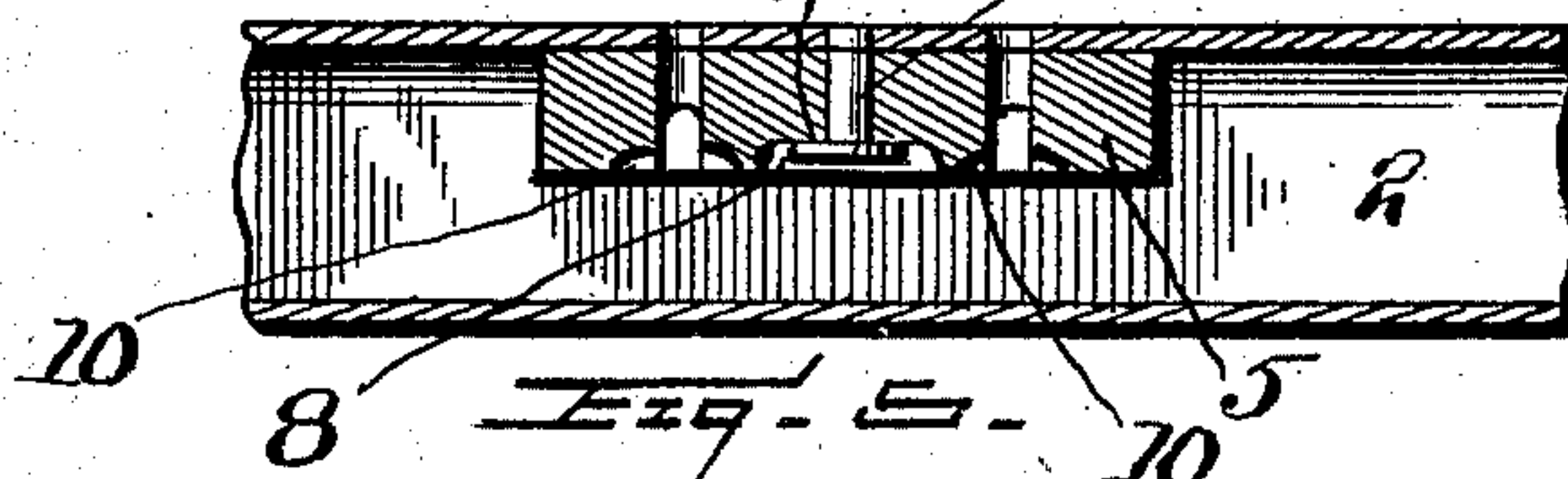


Fig. 5.

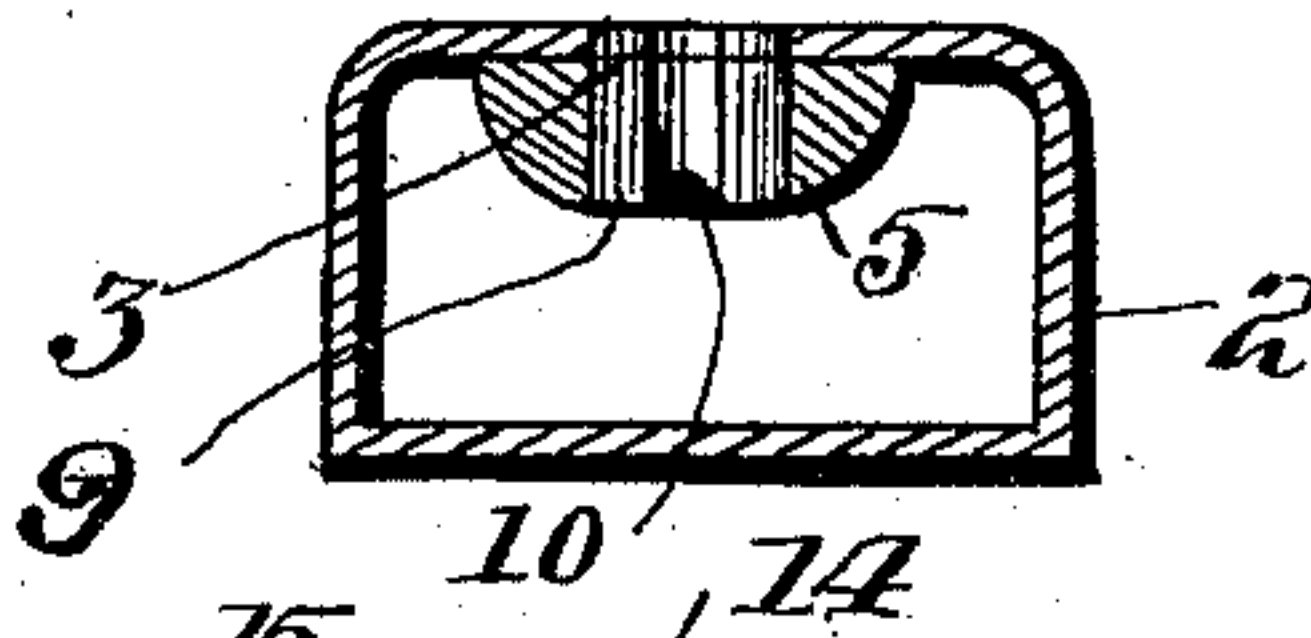
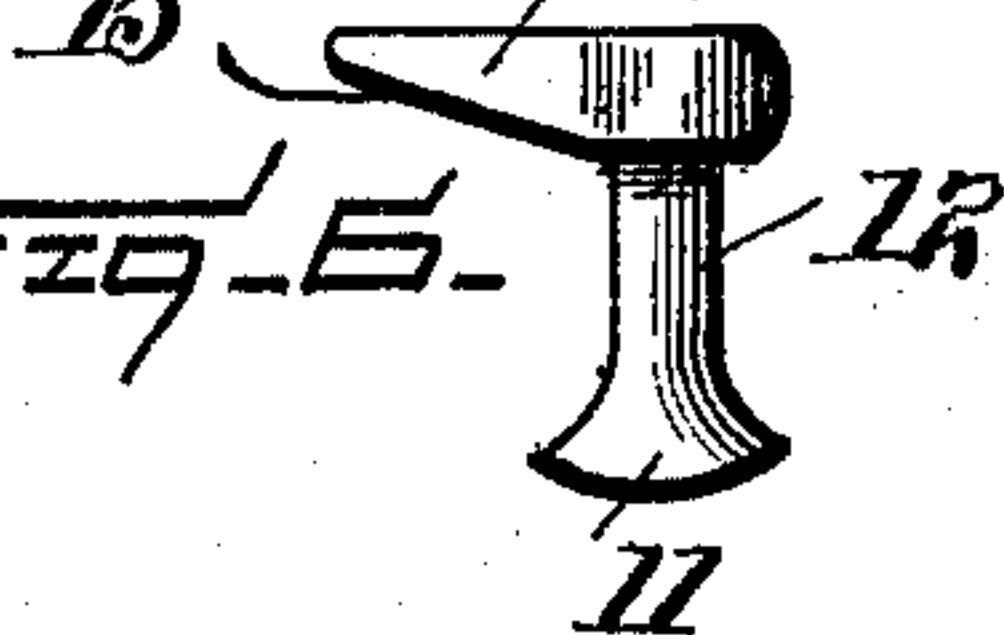


Fig. 6.



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UNITED STATES PATENT OFFICE.

AUGUST SCHOLER, OF PITTSBURG, PENNSYLVANIA.

METALLIC TIE AND RAIL-FASTENER.

SPECIFICATION forming part of Letters Patent No. 705,617, dated July 29, 1902.

Application filed March 3, 1902. Serial No. 96,448. (No model.)

To all whom it may concern:

Be it known that I, AUGUST SCHOLER, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Metallic Ties and Rail-Fasteners, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in metallic ties and rail-fasteners, and has for its object the provision of novel means whereby a rail may be securely fastened to a metallic tie and easily removed therefrom when desired.

Another object of the present invention is to provide a device of this character that will be extremely simple in construction, strong, durable, comparatively inexpensive to manufacture, and highly efficient in its use.

20 With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claims.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, wherein like numerals of reference indicate like parts throughout the several views, in which—

30 Figure 1 is a perspective view showing one end of my improved metallic tie and rail-fastener. Fig. 2 is a top plan view of the tie with the rail-fastener removed therefrom. Fig. 3 is an under plan view of the same. Fig. 4 is a longitudinal sectional view. Fig. 5 is a transverse vertical sectional view taken on the line 5 5 of Fig. 3. Fig. 6 is a side elevation of my improved fastener.

40 In the drawings the reference-numeral 1 represents the rail.

2 represents the hollow metallic tie, having openings 3 3 formed therein, said openings tapering from the central portion to the ends thereof. A central opening 4 between the openings is also formed in the upper face of the tie. A locking-plate 5 is rigidly secured to the under face of the tie by means of a rivet 6, the head 7 of which is countersunk

in the recess 8, formed in the under portion 50 of the locking-plate. This locking-plate 5 has a convexed under face and has openings 9 formed therein to register with the openings 3 of the tie. Extending transversely to the openings 9 seats 10 are formed on the 55 under face of the locking-plate to receive the enlarged shank portion 11 of the shank 12, carried by the fastener 14, which has a beveled under face 15 to engage the upper face of the base of the rail 1. 60

The operation of my improved fastener is as follows: The fastener being inserted through the openings 3 and 9 is then turned, when the rail is placed in position by turning the same, the enlarged shank portion 11 riding up the 65 convexed or inclined face of the locking-plate to a point where the enlarged shank portion 11 will securely seat itself in the seats 10, thus producing a clamping action upon the upper face of the base of the rail and locking 70 the same firmly in position. In order to remove the fastening means, the fastener or head thereof is turned in one direction or the other, which will tend to unseat the enlarged portion of the shank, when the rail may be 75 easily removed.

The many advantages obtained by the use of my improved device will be readily apparent from the foregoing description, taken in connection with the accompanying drawings. 80

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

Having fully described my invention, what 85 I claim as new, and desire to secure by Letters Patent, is—

1. In a metallic tie and rail-fastener, the combination of the rails, a metallic tie having tapering openings formed therein, a locking- 90 plate rigidly secured to the under face of the tie having openings formed therein corresponding with said openings formed in the tie, said locking-plate being convexed and having seats formed therein transversely to said 95 openings, and a fastener carrying a shank to be seated in said seats, substantially as shown and described.

2. In a metallic tie and rail-fastener, the combination of the rails, a hollow metallic tie having openings formed therein, a convexed locking-plate having openings formed therein
5 corresponding with said openings formed in the tie, a rivet to secure said locking-plate to the tie, said locking-plate having seats formed therein extending transversely to the open-ings, and a fastener adapted to be seated in said seats, substantially as described. 10

In testimony whereof I affix my signature in the presence of two witnesses.

AUGUST SCHOLER.

Witnesses:

JOHN NOLAND,

E. E. POTTER.