

No. 709,850.

Patented Sept. 23, 1902.

W. W. FIKE.  
METALLIC TIE.

(Application filed Oct. 16, 1901. Renewed Aug. 16, 1902.)

(No Model.)

Fig. 1.

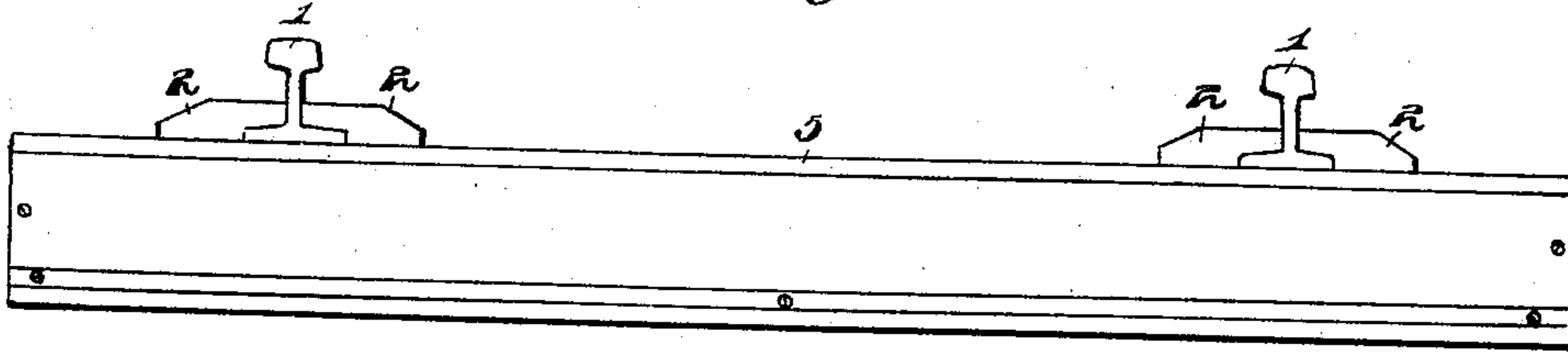


Fig. 2.

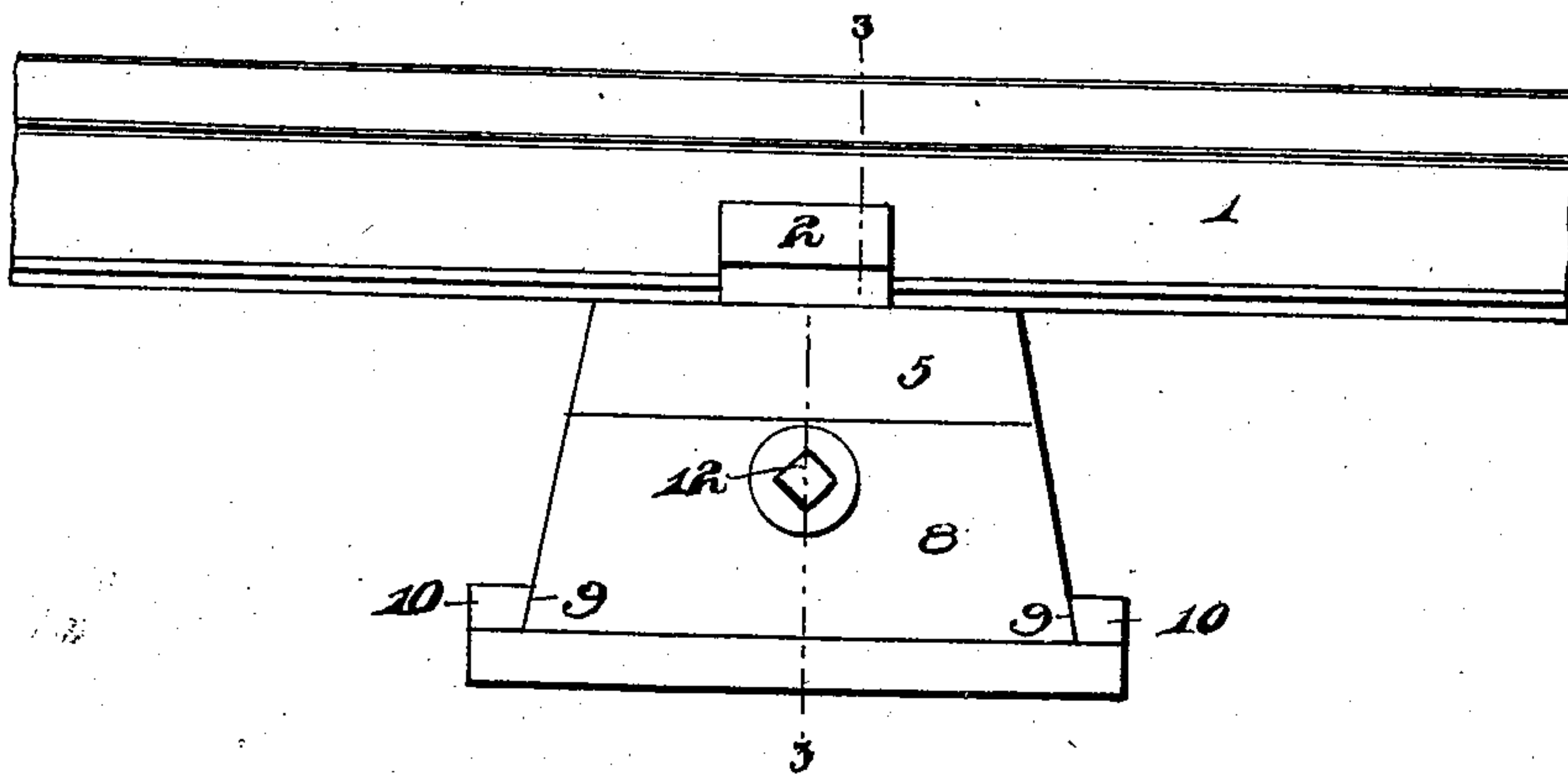


Fig. 3.

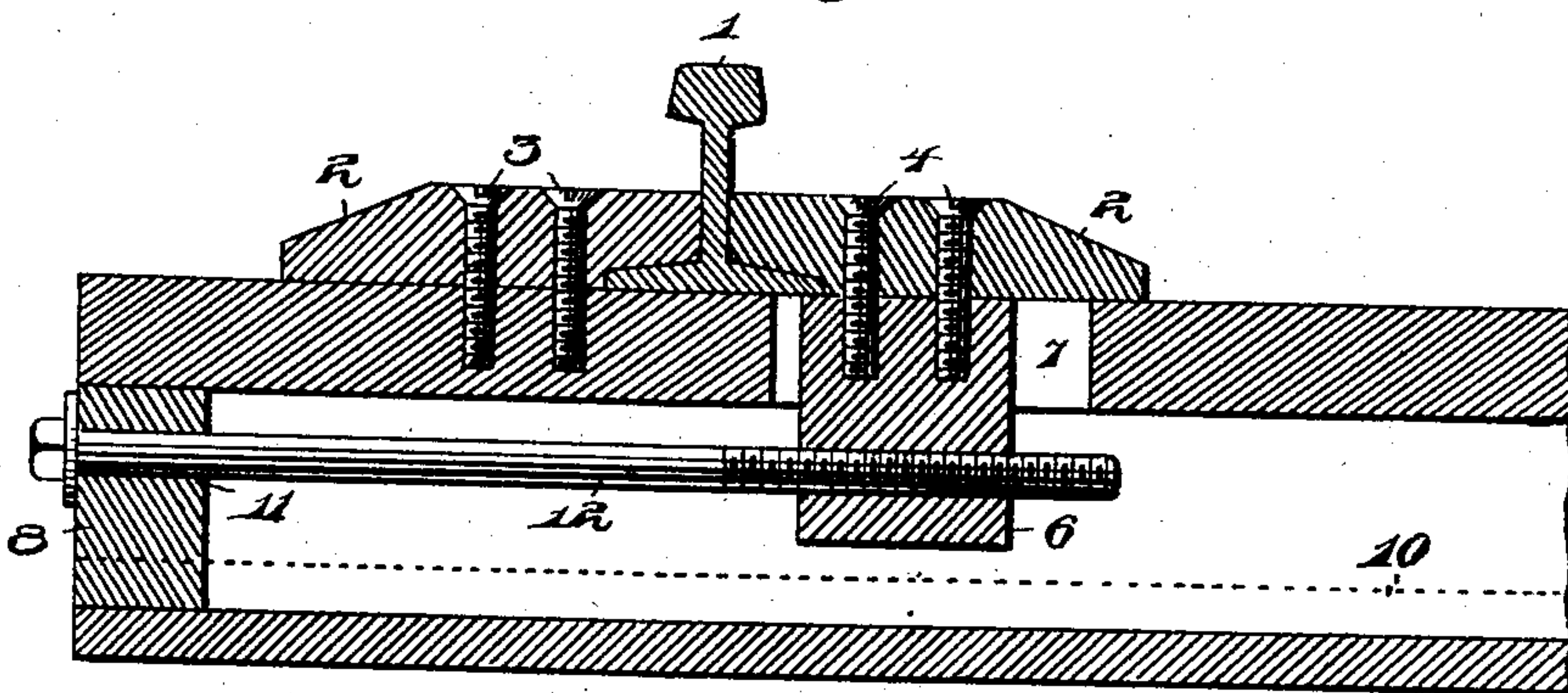
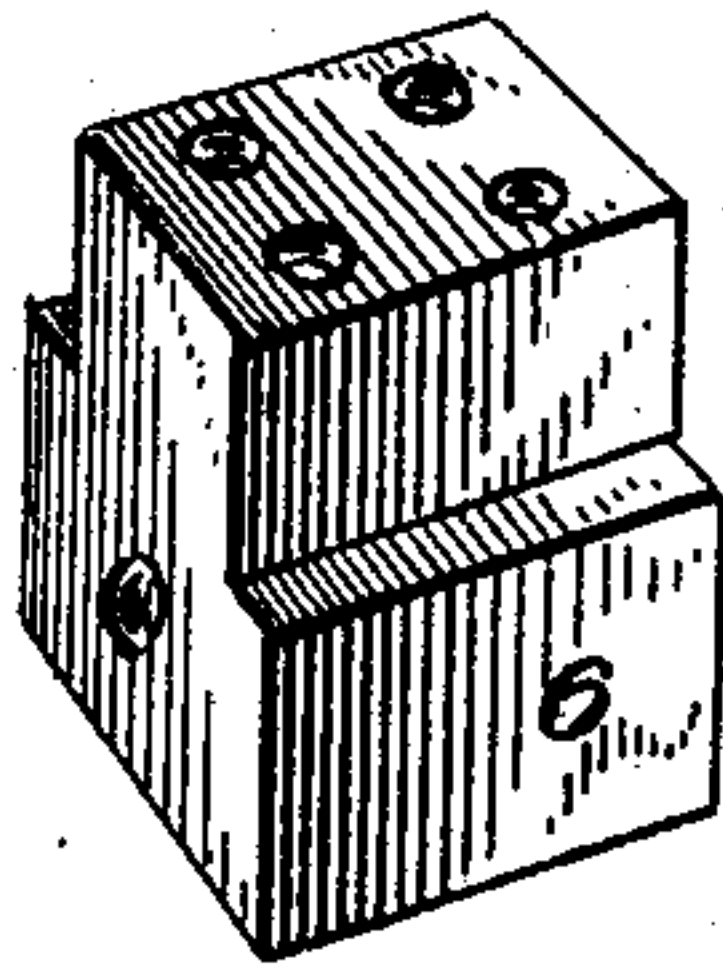


Fig. 4.



Witnesses:

*R. P. Hoffman,*  
*M. Hunter*

*Inventor*  
*W. W. Fike*  
*OW Lewis*  
*Att'y.*

# UNITED STATES PATENT OFFICE.

WILLIAM W. FIKE, OF GARRETT COUNTY, MARYLAND.

## METALLIC TIE.

SPECIFICATION forming part of Letters Patent No. 709,850, dated September 23, 1902.

Application filed October 16, 1901. Renewed August 16, 1902. Serial No. 119,915. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM W. FIKE, a citizen of the United States, residing in the county of Garrett and State of Maryland, have  
5 invented a new and useful Improvement in Metallic Ties, of which improvement the following is a specification.

The invention relates to certain new and useful improvements in metallic ties, and has  
10 for its object the provision of novel means whereby the rails are securely held together and, if desired, may be readily removed.

The invention has for its further object to construct a steel tie that will be extremely  
15 simple in construction, strong, durable, comparatively inexpensive to manufacture, and highly efficient in its use.

With the above and other objects in view the invention consists in the novel combination and arrangement of parts to be herein-  
20 after more fully described, and specifically pointed out in the claim.

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

Figure 1 is a front view of a pair of rails  
30 having my improved tie connected thereto. Fig. 2 is a side elevation thereof. Fig. 3 is a vertical sectional view taken on the line 3 3 of Fig. 2. Fig. 4 is a perspective view of the block inserted in the ends of the tie.

In the drawings, the reference-numeral 1  
35 represents the rails, and 2 2 represent blocks secured on each side of the rails. These blocks are held in position by means of screws or bolts 3 and 4, the bolts 3 passing downwardly  
40 through the blocks 2 into the metallic casing 5, forming the tie. The screws or bolts 4 pass through the blocks 2 into the block 6,

arranged in the opening 7, formed in the upper portion of the casing of the tie.

The reference-numeral 8 represents the in- 45 closing end of the tie, carrying shoulders 9, which shoulders operate in the guideway 10 of the casing. This inclosing end has formed therein an opening 11, adapted to receive the screw-threaded shaft 12, engaging the block 6. 50

It will be noted that when all parts are in position the interior of the tie is inaccessible, as both ends are closed, and in order to remove the same the shaft 12 is operated, there-  
55 by opening the ends, allowing one of the blocks to be removed, which will allow the removal of the rails.

The many advantages obtained by the use of my improved tie will be readily apparent from the foregoing description taken in con- 60 nection with the accompanying drawings.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention. 65

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

A metallic tie comprising the hollow channel-bar apertured as at 7 in its upper wall, 70 the plates 2, one of which is fixedly held to the top of said tie, a block 6 movable in said aperture, to which block the second of said plates is secured, a block 8 in the end of the tie, a bolt passing through said block 8 and 75 having threaded connection with block 6, substantially as shown and described.

In testimony whereof I have hereunto signed my name in the presence of two subscribing witnesses.

WILLIAM W. FIKE.

In presence of—

JAS. C. PEDDICORD,  
G. A. FRALEY.