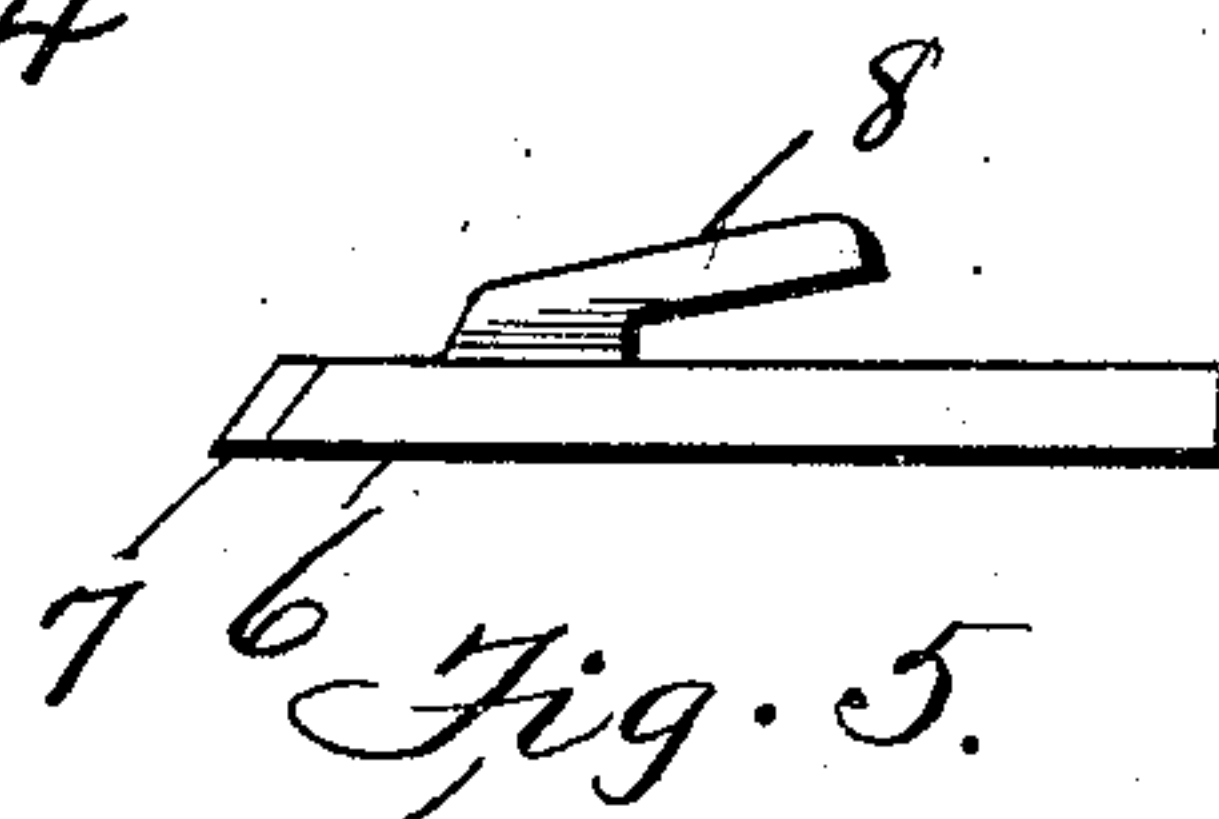
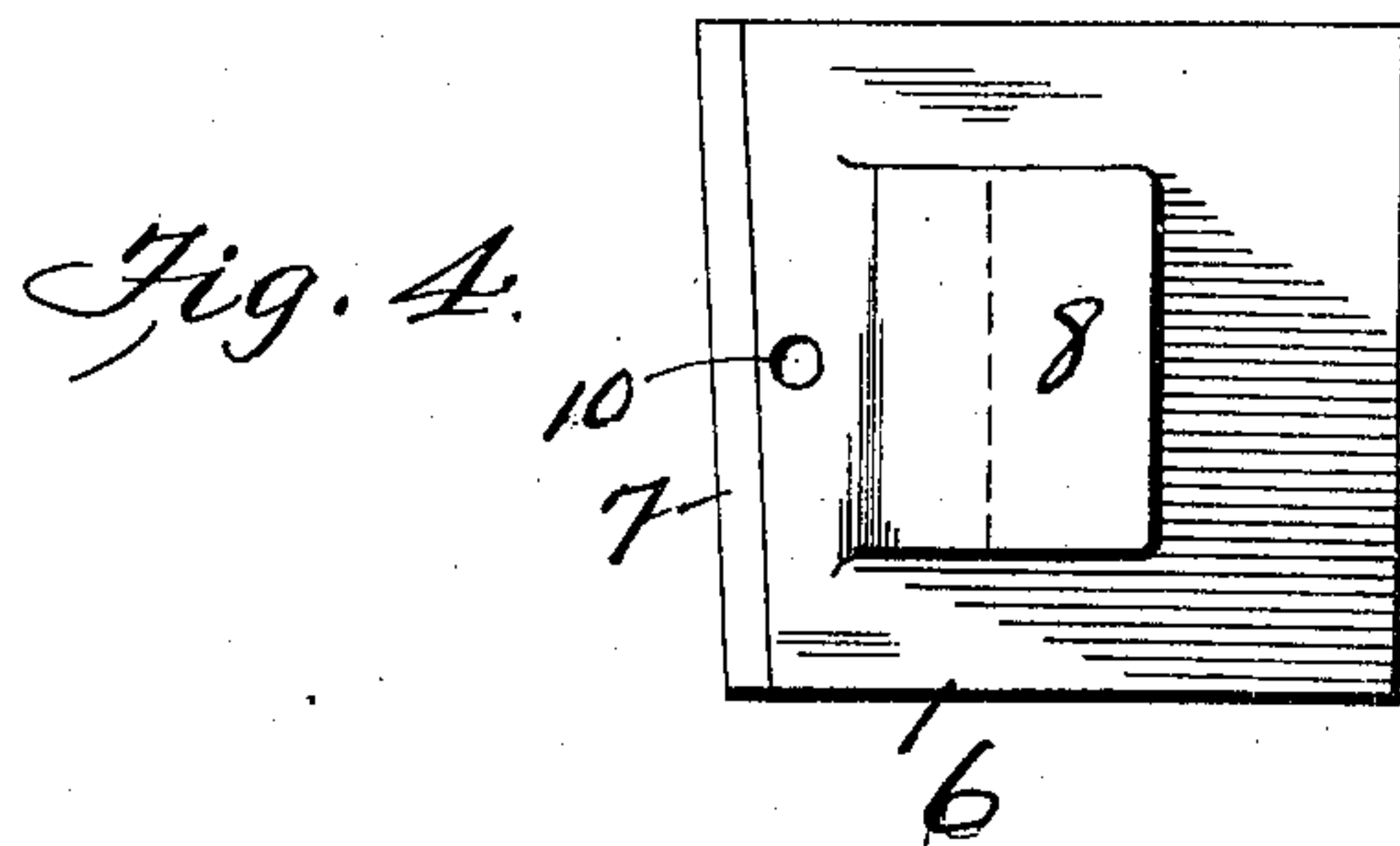
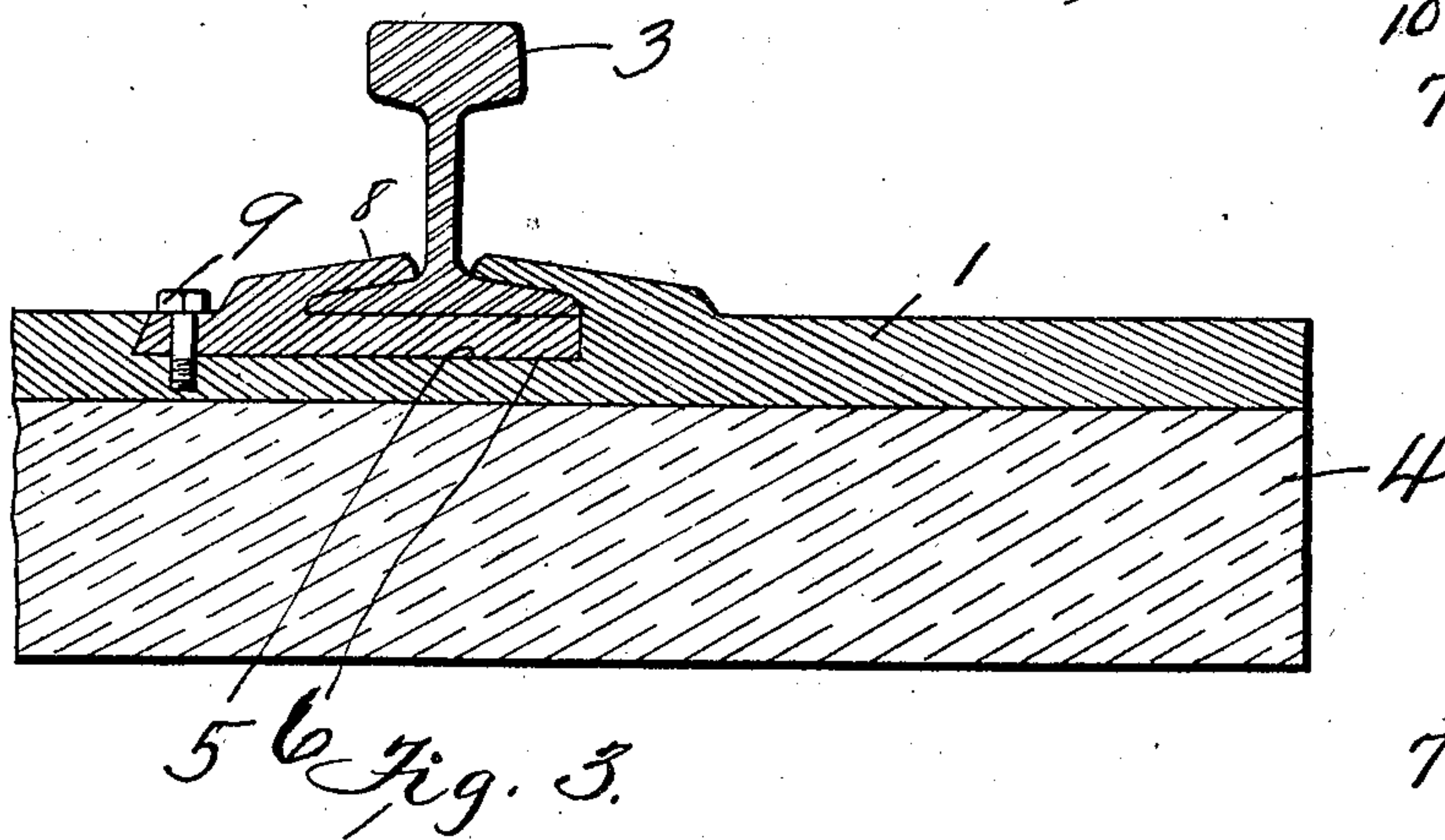
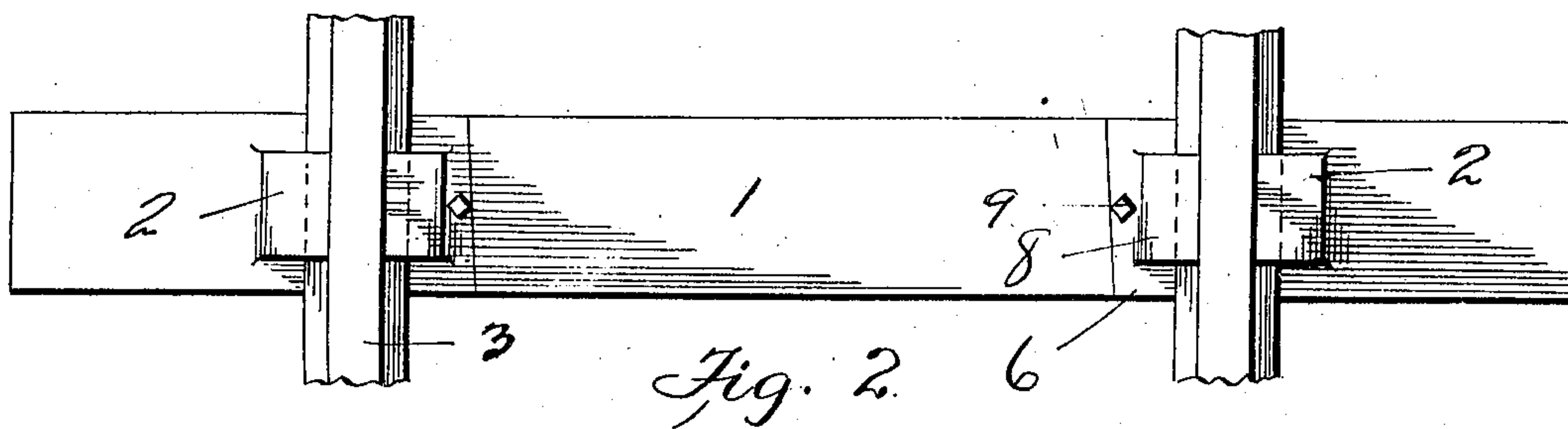
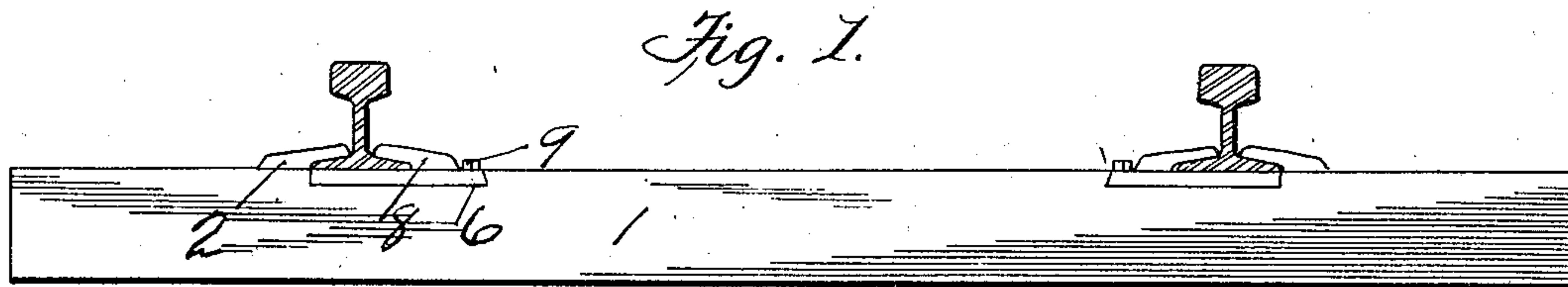


No. 847,110.

PATENTED MAR. 12, 1907.

J. H. PRICE.  
RAILROAD TIE.  
APPLICATION FILED NOV. 21, 1906.



Witnesses  
Chas H. Davies  
John P. Potts

By

Inventor  
J. H. Price  
Shepherd & Parkes  
Attorneys



# UNITED STATES PATENT OFFICE.

JOSHUA H. PRICE, OF CLEVELAND, IOWA.

## RAILROAD-TIE.

No. 847,110.

Specification of Letters Patent.

Patented March 12, 1907.

Application filed November 21, 1906. Serial No. 344,381.

*To all whom it may concern:*

Be it known that I, JOSHUA H. PRICE, a citizen of the United States, residing at Cleveland, in the county of Lucas and State of Iowa, have invented certain new and useful Improvements in Railroad-Ties, of which the following is a specification.

This invention relates to new and useful improvements in railroad-ties; and it particularly embodies a tie constructed of concrete and metal.

The invention aims, primarily, to provide a tie embodying clamping elements which may be readily renewed when worn without the necessity of providing an entirely new tie.

The invention aims as a further object to provide a tie embodying a hollow metallic casting which is made rigid by the interposition therein of a plaster packing of any suitable material, such as cement or concrete.

The invention finally aims to provide a device of the above type which shall be simple and inexpensive to manufacture and practical and efficient in use.

The detailed construction will appear in the course of the following description, in which reference is had to the accompanying drawings, forming a part of this specification, like numerals designating like parts throughout the several views, wherein—

Figure 1 is a side elevation of a tie constructed in accordance with my invention. Fig. 2 is a top plan view thereof. Fig. 3 is a fragmentary longitudinal view thereof, and Figs. 4 and 5 are respectively top and side elevations of a movable clamping element to be hereinafter specifically referred to.

In the practical embodiment of my invention I employ a casting 1, which is preferably of inverted-U shape in cross-section, for the reception of a packing agent 4, which, as above intimated, is preferably of cement or concrete. The casting 1 is provided on each side thereof with means for clamping a rail, comprising integral confronting lips 2, which extend at an incline and are designed to overlie and engage the flange of the rail. Adjacent said lips said casting is formed with recesses 5; having their inner sides inclined

transversely and beveled. The block 6 fits into each of the recesses 5, said block being of substantial wedge shape and having its inclined edge beveled, as at 7. Each of said blocks 6 is formed with an integral lip 8, which confronts the adjacent lip thereof and coacts therewith in clamping the rail 3 to the tie. The block 6 is held from displacement by means of a lag-screw 9, passing through an opening 10 and threaded into the casting 1.

It will be readily apparent that the block 6 may be removed from said casting by first withdrawing the lag-screw 9 and by then applying a blow to the side edge of said block with sufficient force to drive the same from the recess 5. The blocks 6 may be removed whenever necessary and new ones inserted. It will be seen from Fig. 3 that the top portion of said block affords a base-plate for the rail 3 and is substantially flush with the surface of the casting 1.

While the elements herein shown and described are well adapted to serve the functions set forth, it is obvious that various minor changes may be made in the proportions, shape, and arrangement of the several parts without departing from the spirit and scope of the invention as defined in the appended claim.

Having fully described my invention, I claim—

A device of the type set forth comprising a metallic casting having confronting integral lips and formed with wedge-shaped recesses adjacent each of said lips, wedge-shaped blocks for insertion into said respective recesses, said blocks having a major portion flush with the surface of said casting, and being provided with integral lips confronting in spaced relation the lips of said casting, and overhanging said major portion, said major portion serving as a rail base-plate and means for preventing displacement of said block from said casting.

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

JOSHUA H. PRICE.

Witnesses:

THOMAS MORGAN,  
DANIEL DAVIS.