

967,848.

Patented Aug. 16, 1910.

Fig. 1.

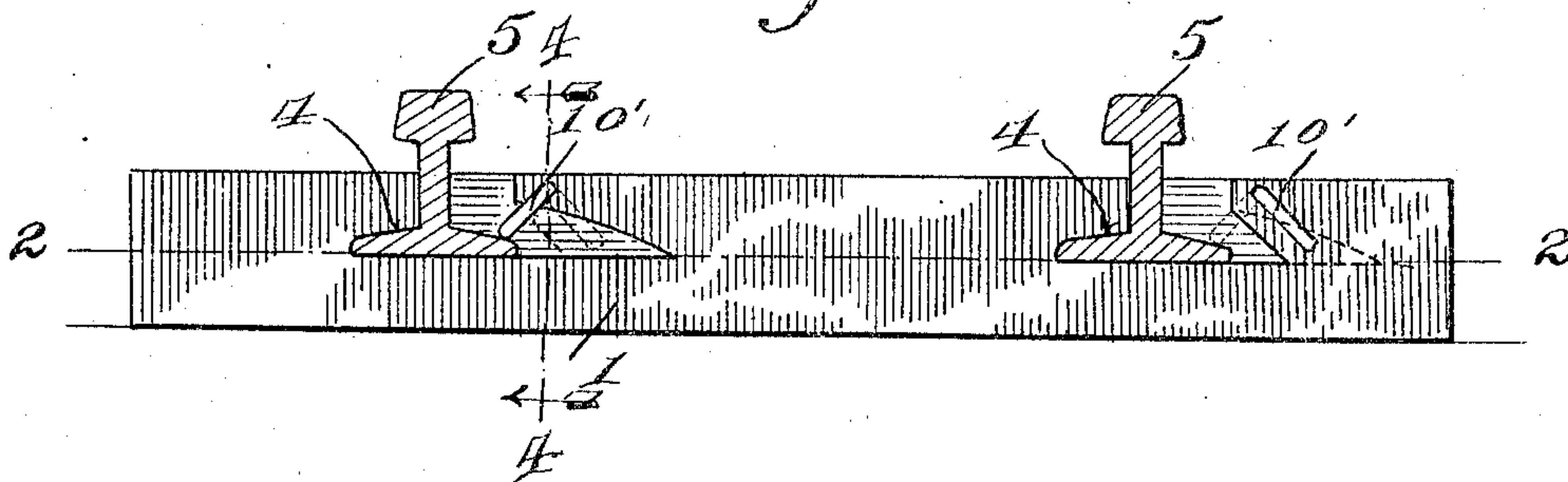


Fig. 2.

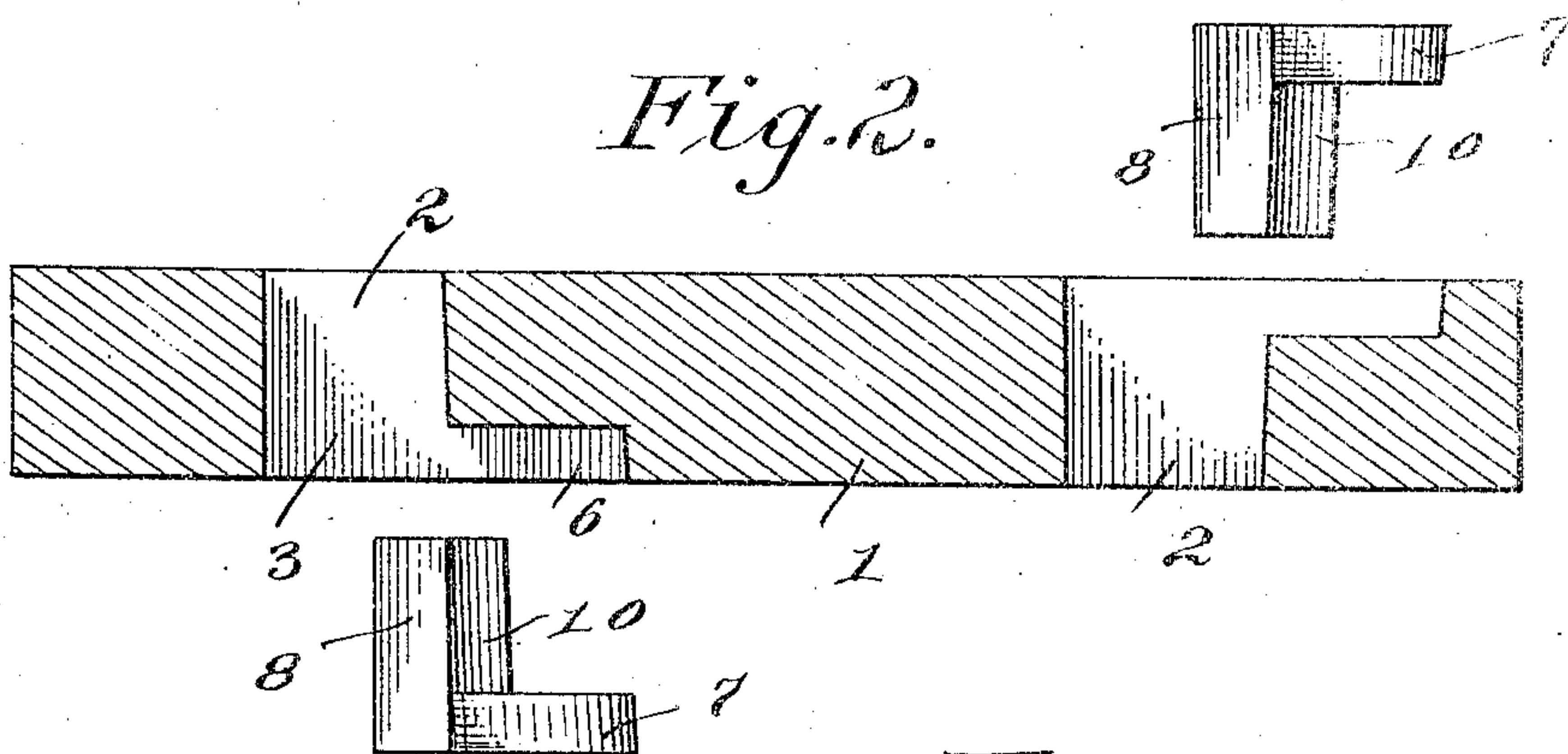


Fig. 3.

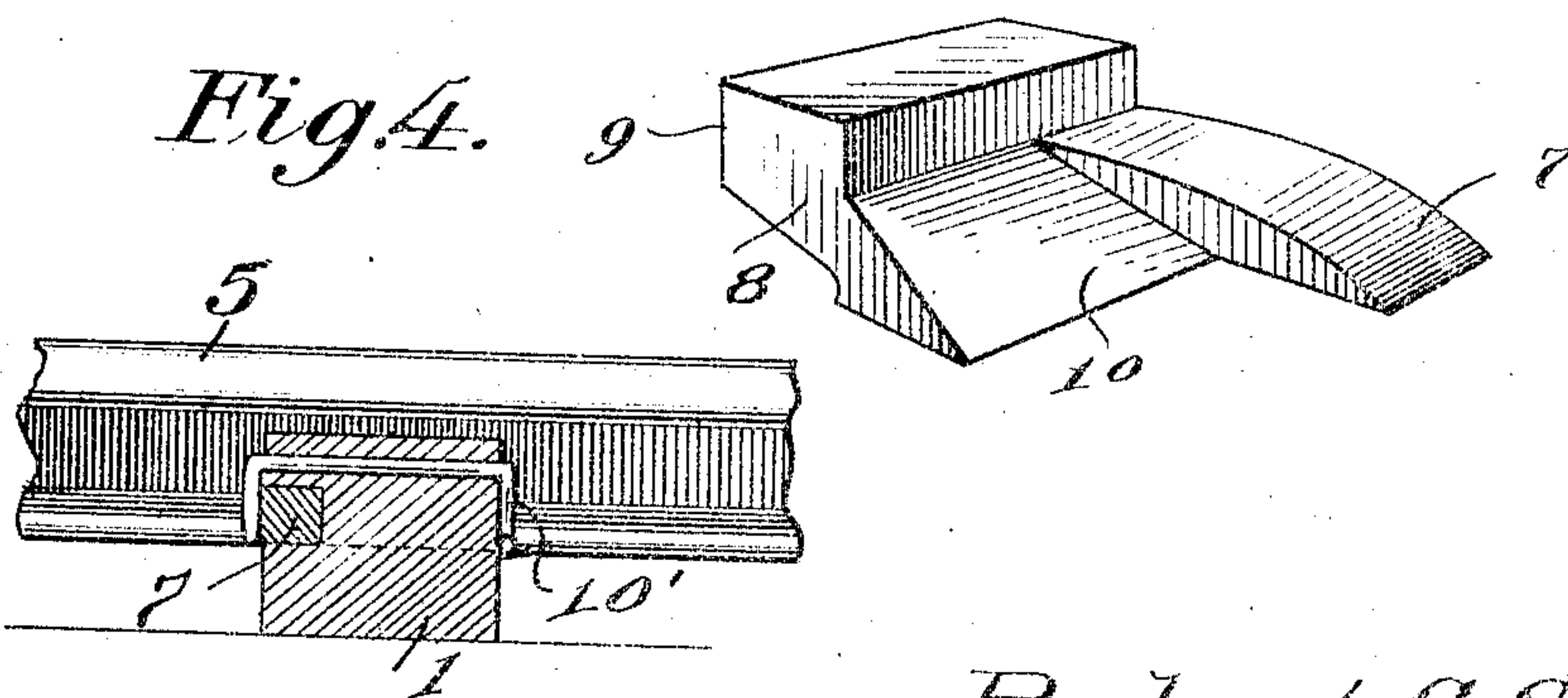
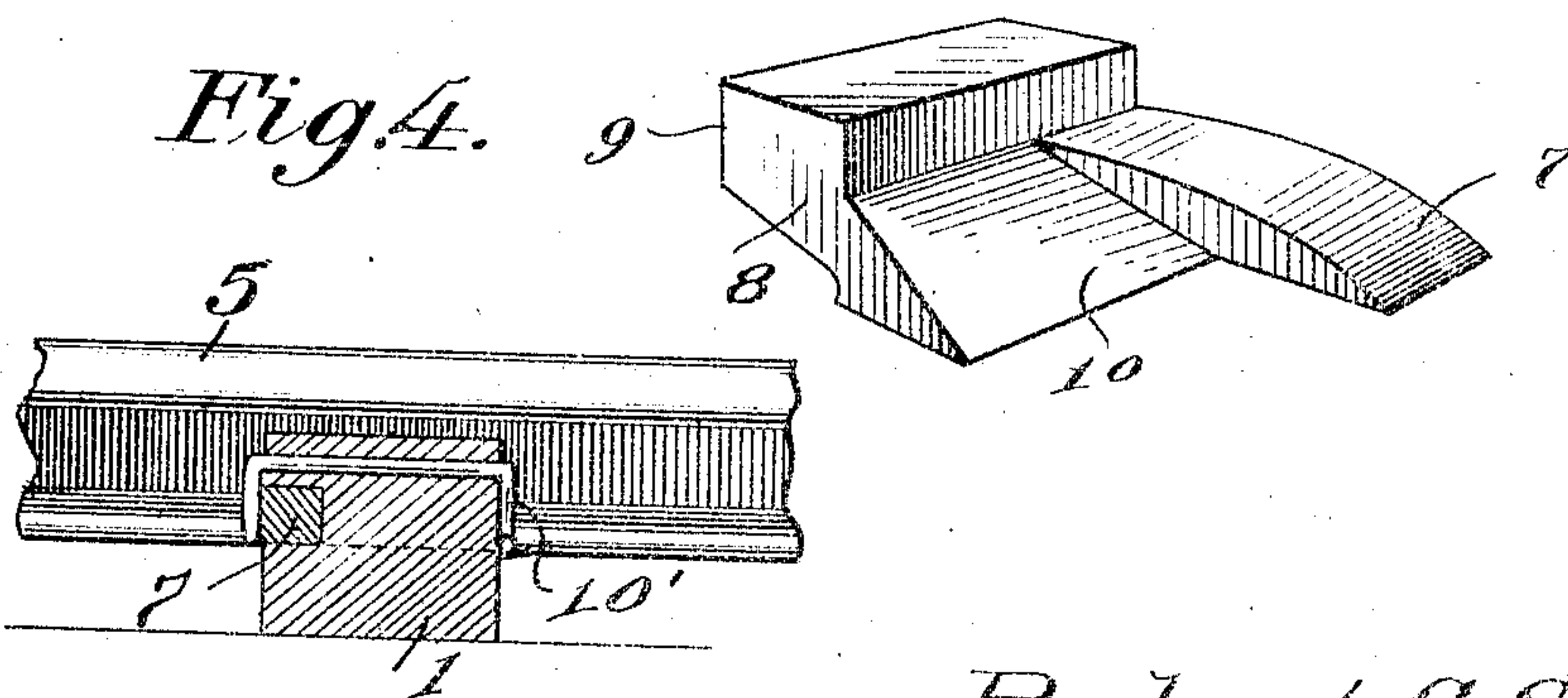


Fig. 4.



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UNITED STATES PATENT OFFICE.

ROBERT COLMAN SMITH, OF TYE RIVER, VIRGINIA.

RAIL-SUPPORTER.

967,848.

Specification of Letters Patent. Patented Aug. 16, 1910.

Application filed December 15, 1909. Serial No. 533,229.

To all whom it may concern:

Be it known that I, ROBERT COLMAN SMITH, residing at Tye River, in the county of Nelson and State of Virginia, have invented new and useful Improvements in Rail-Supporters, of which the following is a specification.

This invention relates to ties for railway rails, and the object of the invention is to provide a device of this character which is comparatively simple in construction, which comprises few parts, which efficiently dispenses with the use of spikes or analogous securing elements and which provides means whereby the rail may be easily and quickly detached from the tie when desired.

With the above, and other objects in view, which will appear as the description progresses, the invention resides in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings there has been illustrated a simple and preferred embodiment of the improvement, and in which drawing,

Figure 1 is a side elevation of a tie constructed in accordance with my invention. Fig. 2 is a horizontal sectional view upon the line 2—2 Fig. 1, the locking members being shown removed from the pockets of the tie. Fig. 3 is a perspective view of one of the locking members. Fig. 4 is a transverse sectional view illustrating the U-shaped catch member.

The improved tie designated by the numeral 1, may be constructed of any desired material, such as wood, metal or the like, and the said tie comprises a substantially rectangular member which is provided with depressed portions or seats 2 adjacent both of its ends. These seats 2 each comprise a horizontally straight floor portion 3, which has one of its ends beveled to provide an overlying portion or flange 4, of a shape similar to the flanges and the webs of the rail members 5. The said pockets 2 are also provided adjacent their opposite faces with beveled depressed portions 6, the same being adapted for the reception of webs or offsets 7 provided upon locking blocks 8. Each of these locking blocks 8 comprises a vertically straight face portion 9, which is adapted to abut against the web of the rail 5 adjacent

to that contacted by the vertical member of the pocket 2. Each of the locking blocks 8 is also provided with an undercut portion which is adapted to overlies the base flange of the rail 5 adjacent to that engaged by the overlying portion 4 of the tie 1, and the said block is further provided with an inclined wall 10 which engages with the inclined face of the seat 4 adjacent to that of the recess 6. The tie 1 is also provided with securing elements designated by the numeral 10'. These elements are each, preferably constructed of a single strip of suitable metal being formed in the shape of a U, one arm of which being adapted to serve as a handle, while the opposite arm is adapted to be swung into contact with the portion of the locking block 8. By reference to the blocks illustrated in Fig. 2 of the drawings, it will be noted that they are inclined longitudinally so that the same when brought into an engaging position with the rails, effectively contact the same by a wedge action and the liability of accidental removal is substantially obviated.

From the above description, taken in connection with the accompanying drawings, it will be noted that I have provided a simple and effective device for the purpose intended, and it is to be understood that while I have illustrated and described the preferred embodiment of the improvement, as it now appears to me, minor details of construction within the scope of the following claim may be resorted to if desired.

Having thus described the invention, what I claim as new is:—

A railway tie provided with a rail receiving pocket, said pocket being provided with a recess adjacent one of the faces of the tie, a locking block for the tie provided with an integrally formed extending finger adapted to engage the recess of the tie, and a U-shaped locking member adapted to contact the said finger to retain the locking member within the pocket.

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

ROBERT COLMAN SMITH.

Witnesses:

B. L. ADAMS,
J. G. EPPS.