

No. 840,219.

PATENTED JAN. 1, 1907.

W. P. JOHNSON.
RAIL FASTENER.
APPLICATION FILED AUG. 31, 1906.

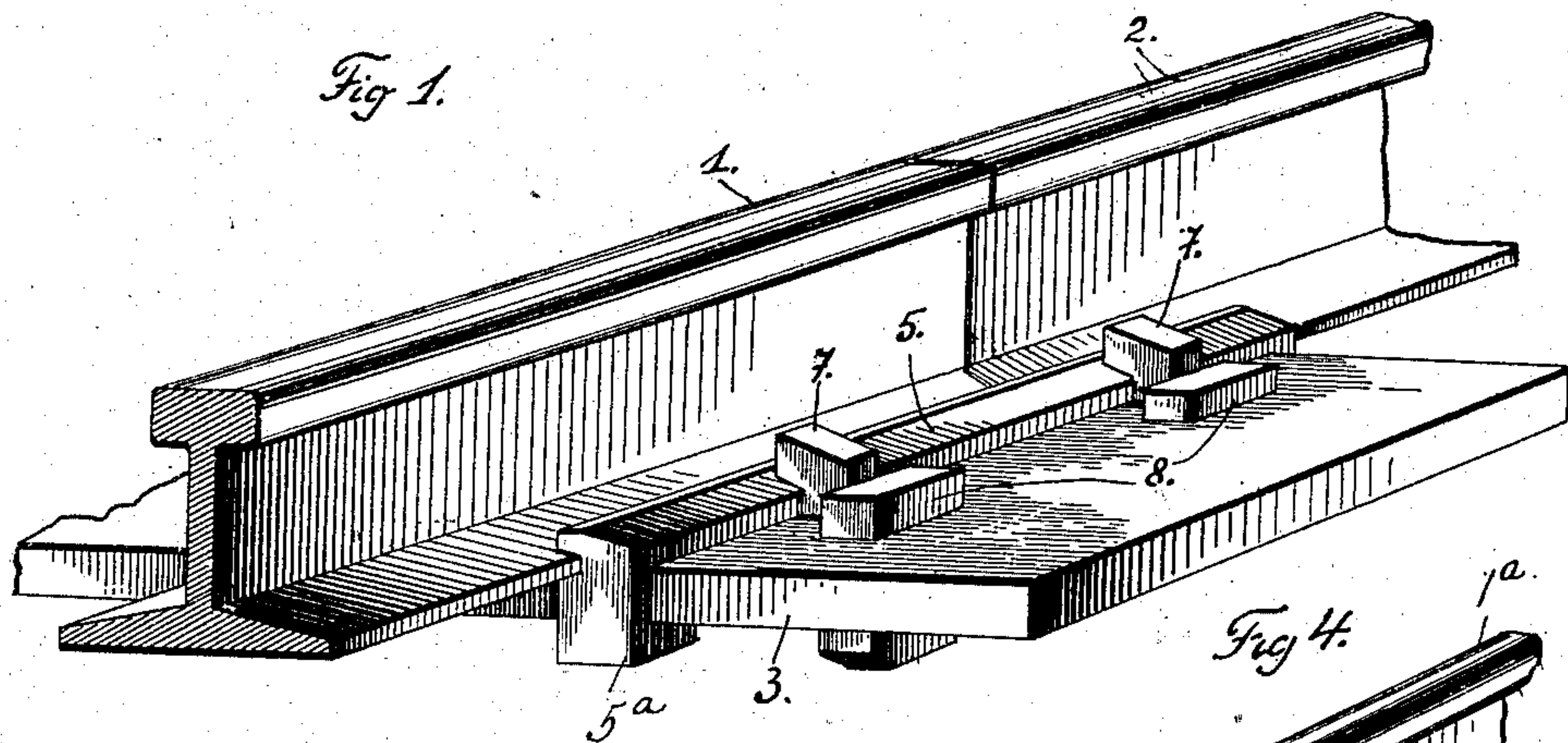


Fig. 2.

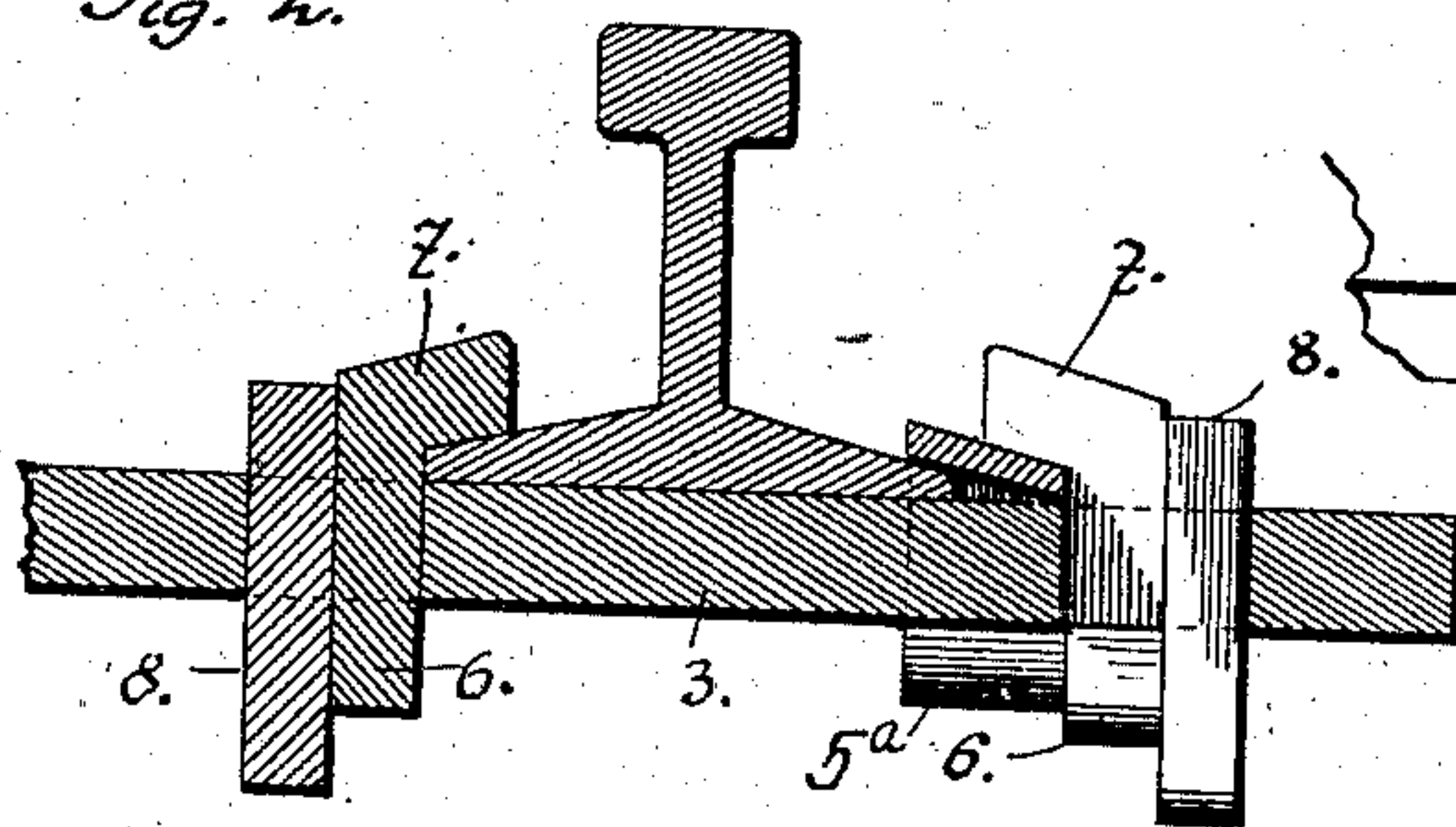


Fig. 3.

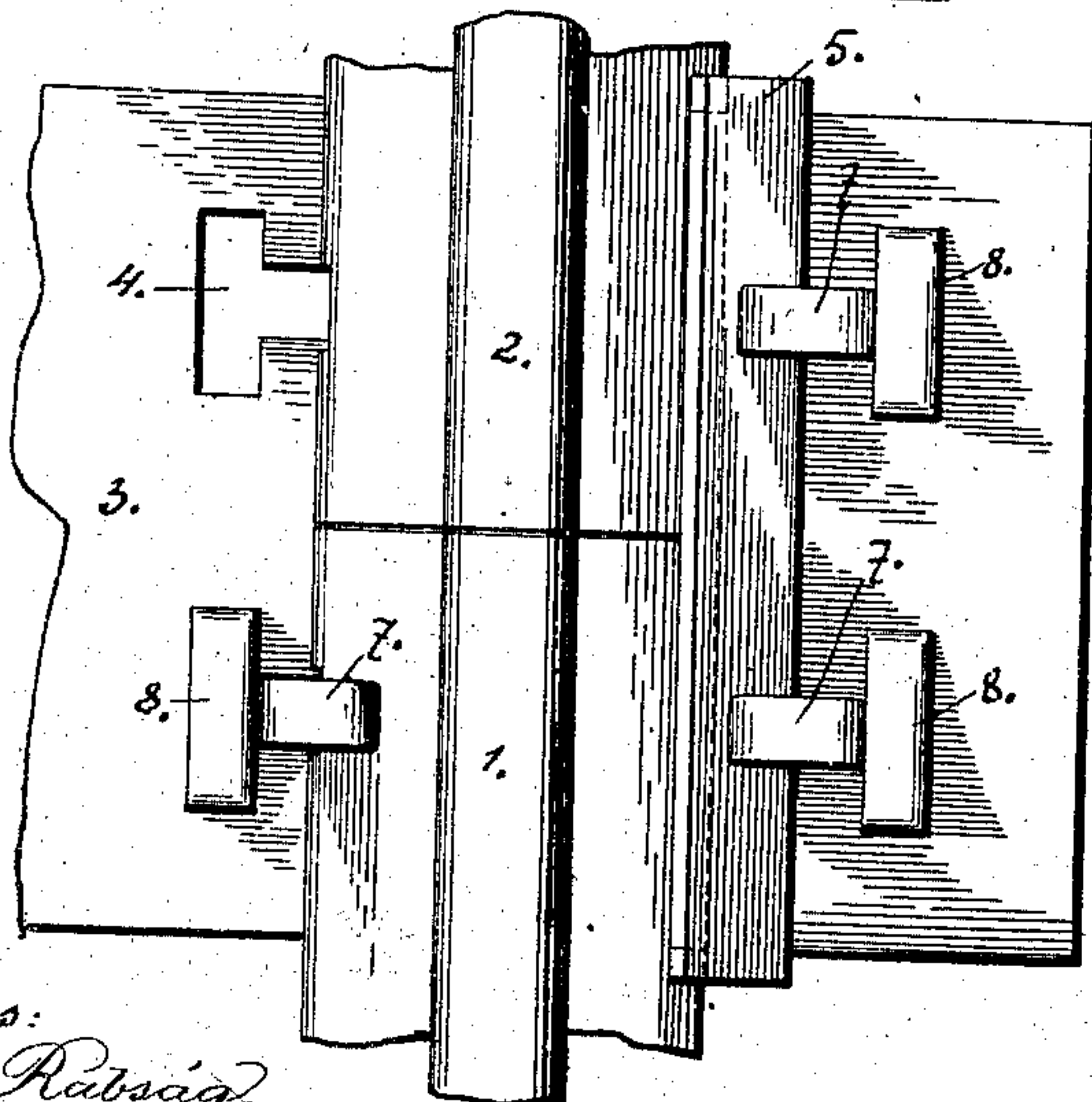


Fig. 4.

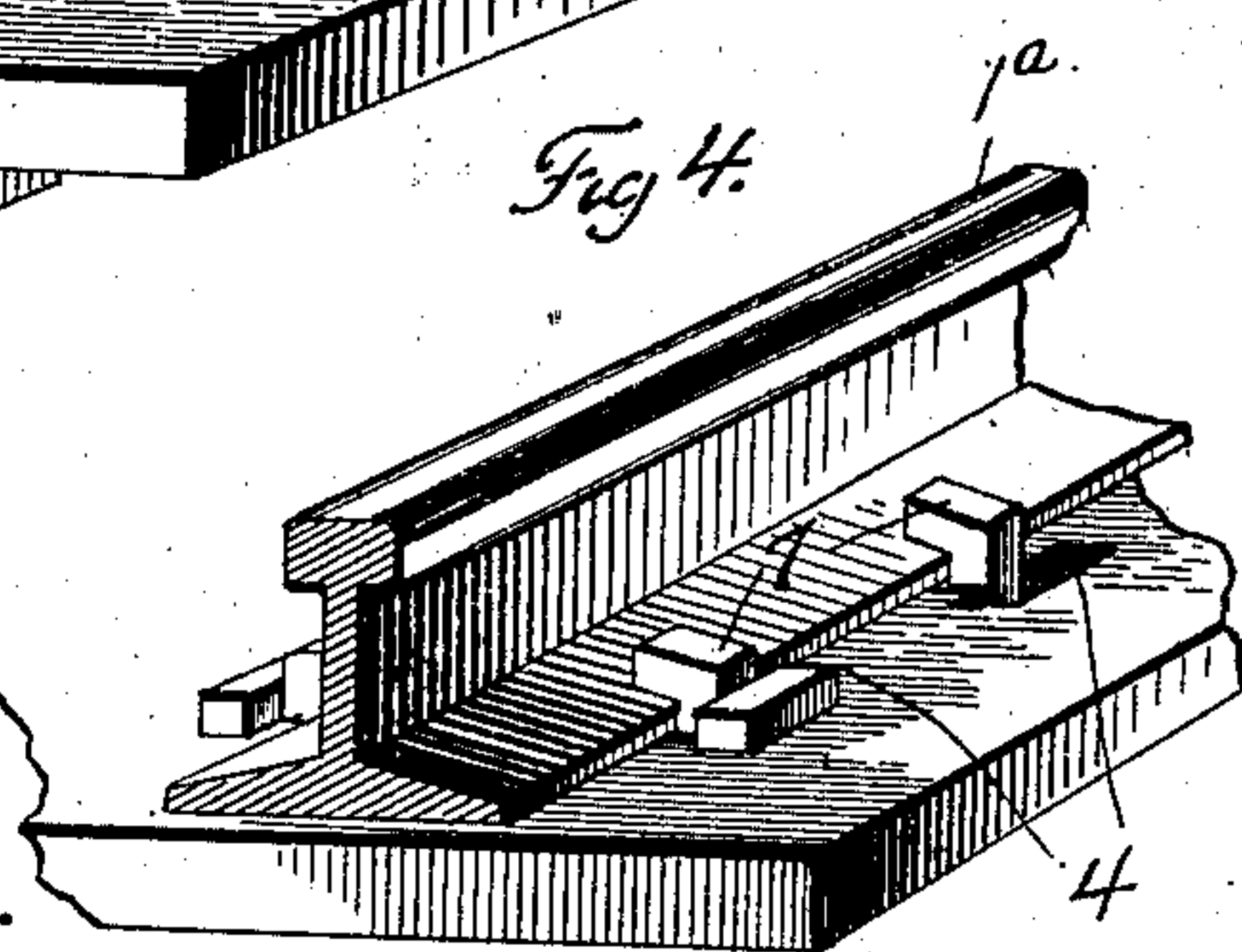


Fig. 5.

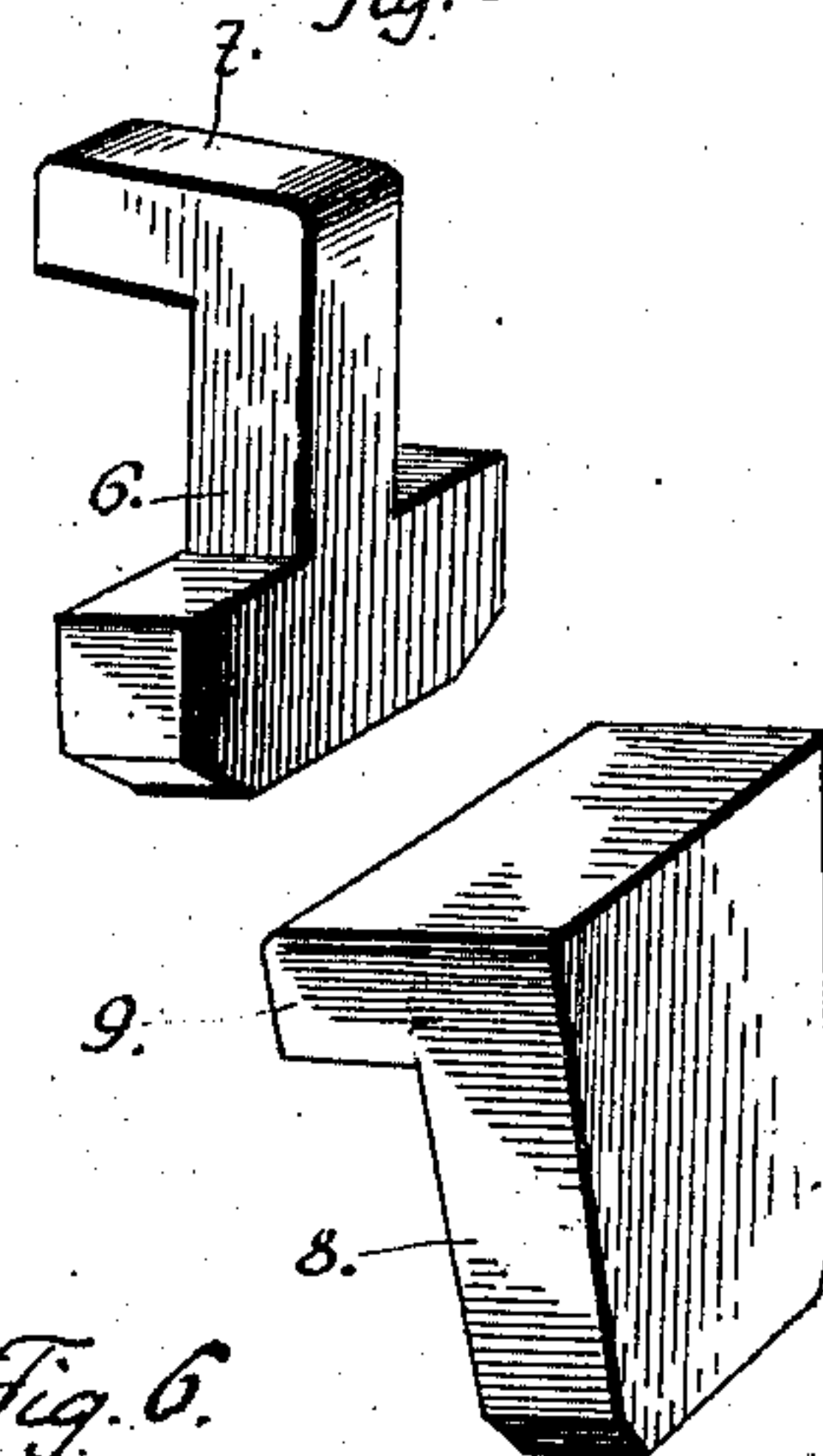


Fig. 6.

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UNITED STATES PATENT OFFICE.

WILLIAM P. JOHNSON, OF KERRMOOR, PENNSYLVANIA.

RAIL-FASTENER.

No. 840,219.

Specification of Letters Patent.

Patented Jan. 1, 1907.

Application filed August 31, 1906. Serial No. 332,774.

To all whom it may concern:

Be it known that I, WILLIAM P. JOHNSON, a citizen of the United States of America, residing at Kerrmoor, in the county of Clearfield and State of Pennsylvania, have invented certain new and useful Improvements in Rail-Fasteners, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to rail-fasteners; and its object is to provide simple and effective means for securing railway-rails to metallic ties without the employment of bolts or nuts.

15 The invention consists in the combination, with a metallic tie provided with suitable slots, of securing devices engaging the bases of the rails and wedges within the slots of the ties for locking said securing devices.

20 The construction of the improvement will be fully described hereinafter in connection with the accompanying drawings, which form a part of this specification, and its novel features will be defined in the appended claim.

25 In the drawings, Figure 1 is a view in perspective of a rail-fastening embodying the invention. Fig. 2 is a transverse section of the same. Fig. 3 is a top plan of the same. 30 Fig. 4 is a view in perspective of a modified construction. Fig. 5 is a perspective of one of the clamps employed, and Fig. 6 is a similar view of a modified form of the locking-key.

35 The reference-numerals 1 and 2 designate the meeting ends of two rail-sections, supported upon a metallic tie 3, formed on opposite sides of the rails with T-shaped slots 4.

40 A clamping-bar 5 overlaps the outer edge of the rail-base, said bar having a depending angle-arm 5^a at each end to engage the opposite edges of the tie. This clamping-bar is held in place by T-shaped clamps 6, formed at their upper ends with lugs 7, projecting at right angles to the body of the clamp and overlapping the bar 5. The oppositely-pro-

jecting arms at the lower end of the clamp bear against the under surface of the tie. The clamps 6 are locked in position by wedge-shaped keys 8, which are preferably provided 50 with heads or flanges 9, as shown in Fig. 6, to facilitate their withdrawal. The clamping-bar 5 is dispensed with on the inner side of the rails, and the lugs 7 of the T-shaped clamps overlap the base of the rail, being 55 locked in place by the wedge keys 8.

In Fig. 4 I have shown a modification of the invention, adapted for securing rails to ties between joints. This construction is the same as that already described, except 60 that the rail-joint-clamping bar 5 is omitted, the lugs 7 of the clamps bearing directly on the base of the rail on opposite sides thereof. I have shown two slots 4 in the tie on each side of the rail 1^a; but only a single set of the 65 clamping devices, including a clamp 6 and key 8, might be employed, in which event only one T-shaped slot would be required on each side of the tie.

The improvement provides a simple and 70 reliable rail-joint, as well as a secure fastening for securing the rails to the ties between joints.

Having fully described my invention, what I claim as new, and desire to secure by Let- 75 ters Patent, is—

The combination with the meeting ends of two rails, and a metallic tie formed with a plurality of T-shaped slots on opposite sides 80 of the rails, a clamping-bar formed with end projections to engage the side edges of the tie, clamps fitting within said slots, and having lugs overlapping said bar and the base of the rail, and wedge keys for locking the clamps in position. 85

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

WILLIAM P. JOHNSON.

Witnesses:

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