

(No Model.)

W. H. SUTTON.
RAILROAD JOINT.

No. 451,164.

Patented Apr. 28, 1891.

Fig. 1.

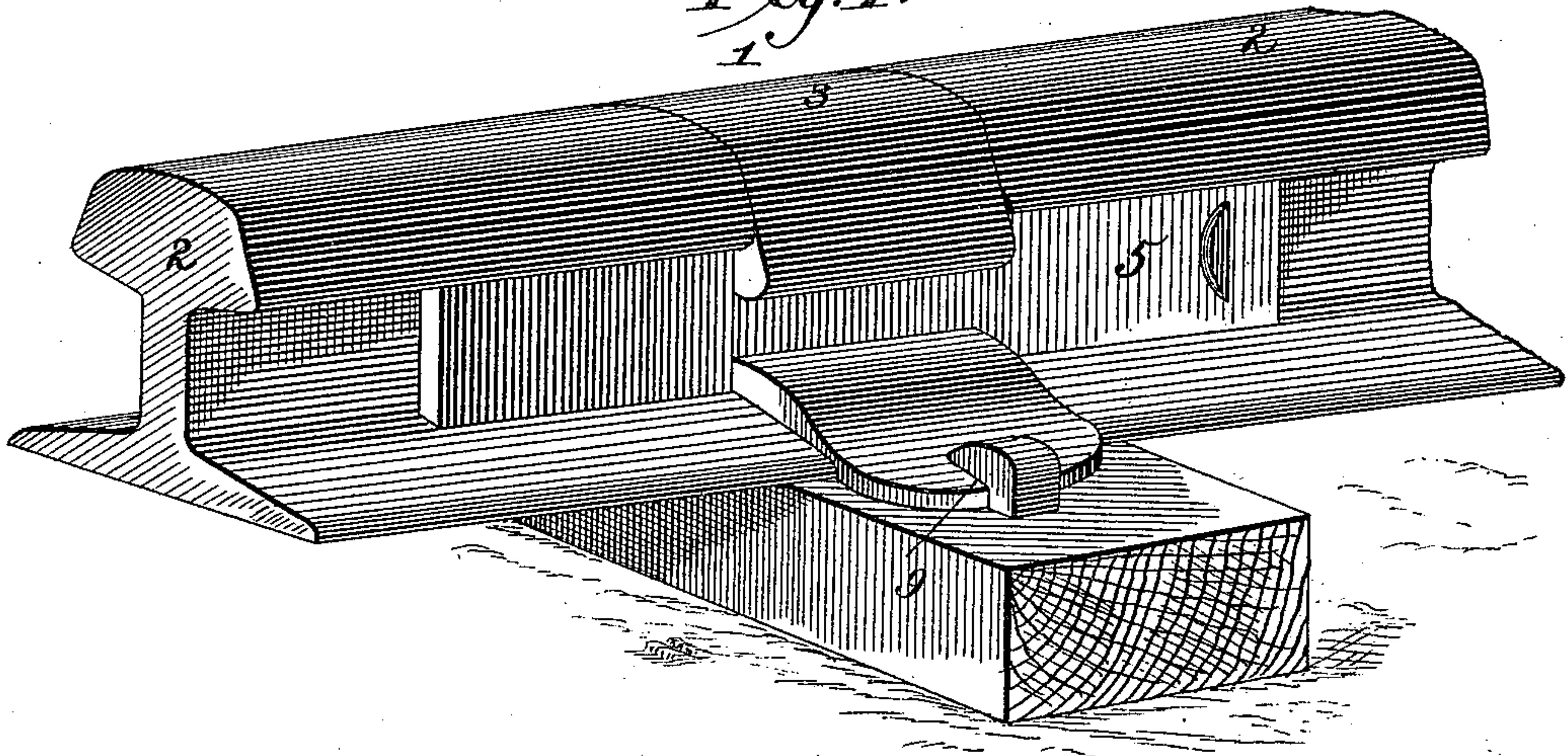


Fig. 2.

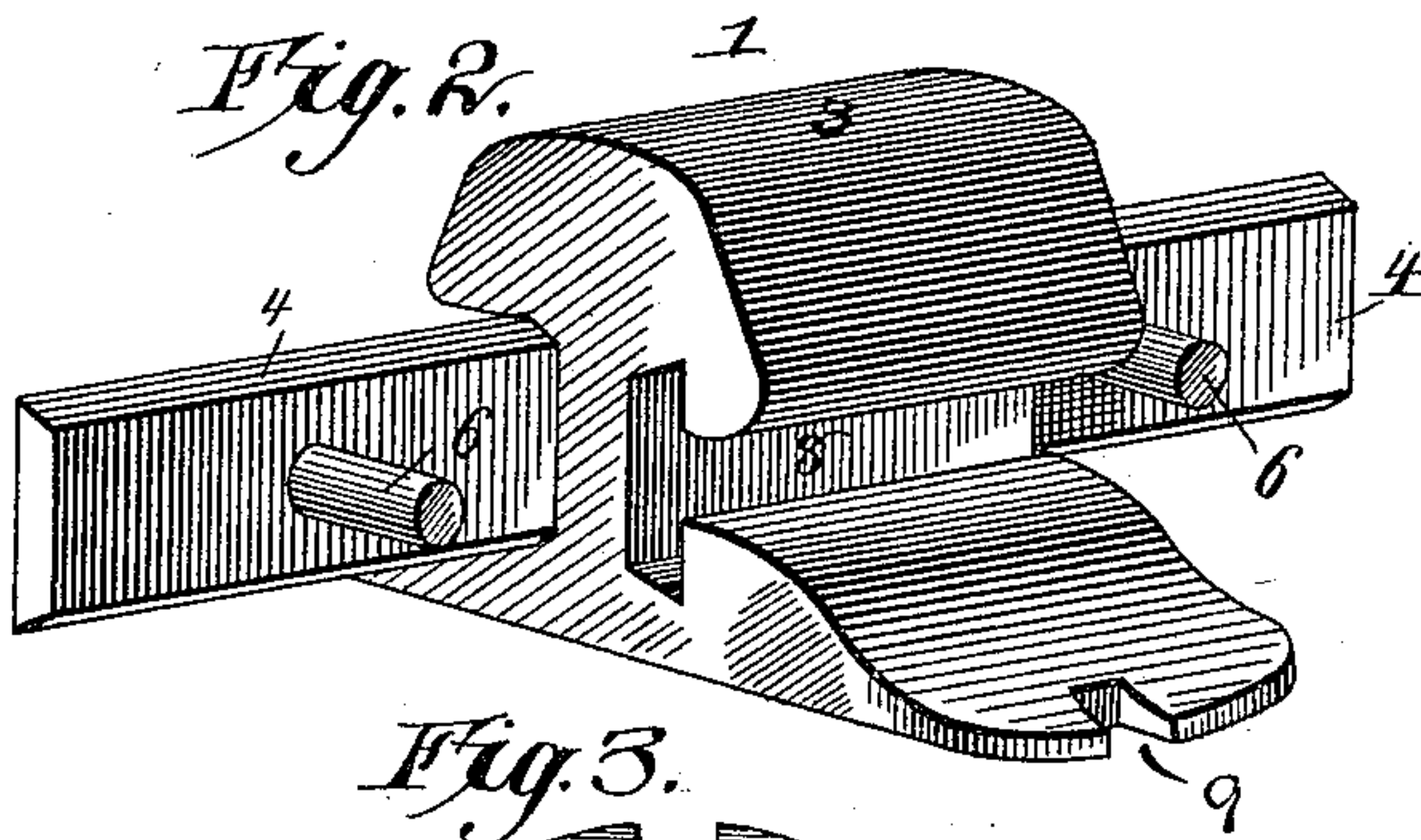


Fig. 3.

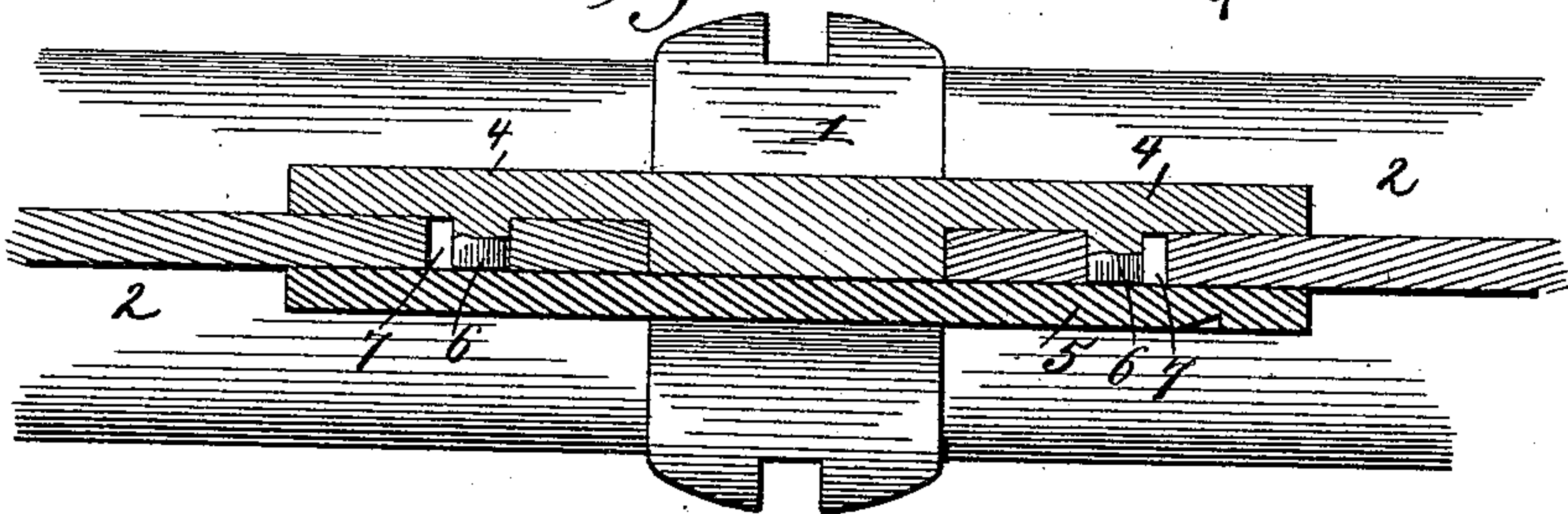
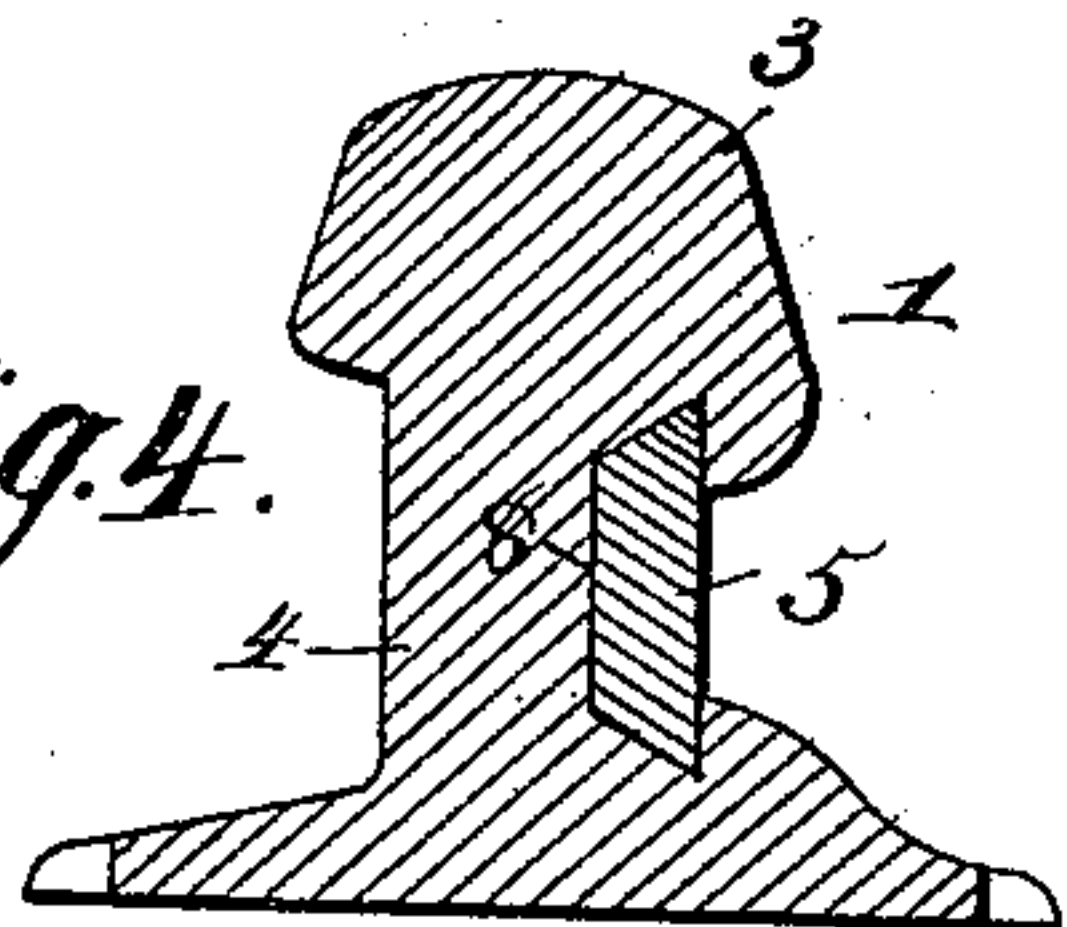


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM HARRISON SUTTON, OF WEST PLAINS, MISSOURI, ASSIGNOR OF
ONE-HALF TO ROBERT G. GREEN, OF SAME PLACE.

RAILROAD-JOINT.

SPECIFICATION forming part of Letters Patent No. 451,164, dated April 28, 1891.

Application filed November 28, 1890. Serial No. 372,881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HARRISON SUTTON, a citizen of the United States, residing at West Plains, in the county of Howell and State of Missouri, have invented a new and useful Railroad-Joint, of which the following is a specification.

The invention relates to improvements in railroad-joints.

10 The object of the present invention is to simplify and improve the construction of railroad-joints and dispense with the employment of the ordinary construction of fish-plates and bolts and nuts, and obviate the necessity of employing nut-locks.

15 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

20 In the drawings, Figure 1 is a perspective view of a rail-joint constructed in accordance with this invention and shown applied in operative position. Fig. 2 is a similar view of the joint detached, the sliding plate being removed. Fig. 3 is a horizontal sectional view. Fig. 4 is a transverse sectional view.

Referring to the accompanying drawings, 1 designates a railway-joint or fastening device adapted to connect and secure the adjacent ends of rails 2, and consisting of a body or rail section 3, conforming to the configuration of the adjacent rails 2, and adapted to fit between the rails 2 and form a continuation of the same, and a plate 4, formed integral with the body or rail section and arranged at one side of the section, and a sliding plate 5, adapted to engage the opposite side of the body or rail section 3, and the said plates 4 and 5 extend beyond the body or rail section 3 and secure the ends of the rails 2 thereto.

45 The body or rail section 3 is composed of a tread, a web, and bottom flanges similar to the ordinary construction of rail, and the face of the tread is slightly curved to facilitate the passage of the wheels of a train from the rails

2 to the body or rail section 3, and vice versa.

The integral plate 4 is arranged at one side of the web of the body or section 3 in the manner of an ordinary fish-plate, and it projects beyond the body or section and is provided equidistant of its ends with inwardly-extending integral cylindrical studs or stump-bolts 6, which are arranged to engage elongated openings 7 in the ends of the rails 2. The opening 7 extends through the web of the rail and is elongated to allow for the creeping of the rails.

60 The lower face of the tread and the upper face of the opposite bottom flange are provided with grooves 8, which form a way for the sliding plate 5, and after the parts have been assembled the sliding plate is inserted in the way formed by the grooves 8, and it projects beyond the body or section 3 and engages the webs of the adjacent rails.

The rail-joint is secured to a tie by spikes, which engage suitable recesses 9 in the outer edges of the bottom flanges.

70 From the foregoing description the construction, operation, and advantages of the invention will be readily understood by those skilled in the art.

What I claim is—

A rail-joint comprising the body or rail section 3, provided at one side with the grooves 8, arranged in the web and bottom flange and forming a way, the integral plate arranged at the opposite side of the body or section 3 and extending beyond the same and provided with inwardly-extending studs adapted to engage adjacent rails, and the sliding plate arranged in said way and projecting beyond the body or section, substantially as described.

85 In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM HARRISON SUTTON.

Witnesses:

GREEN FIELDS,

JAMES W. PRATT.