

No. 827,741.

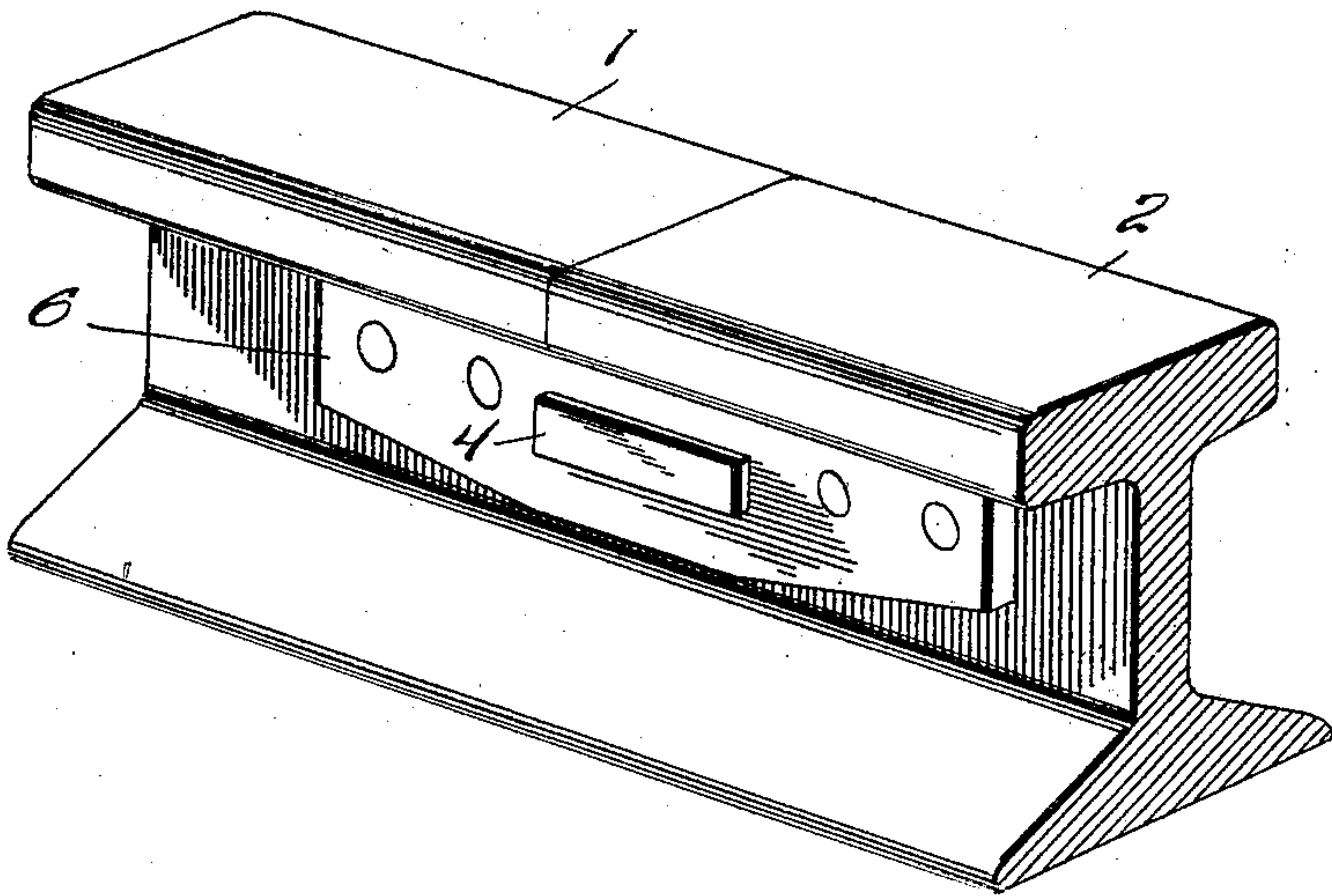
PATENTED AUG. 7, 1906.

J. D. MANESE.

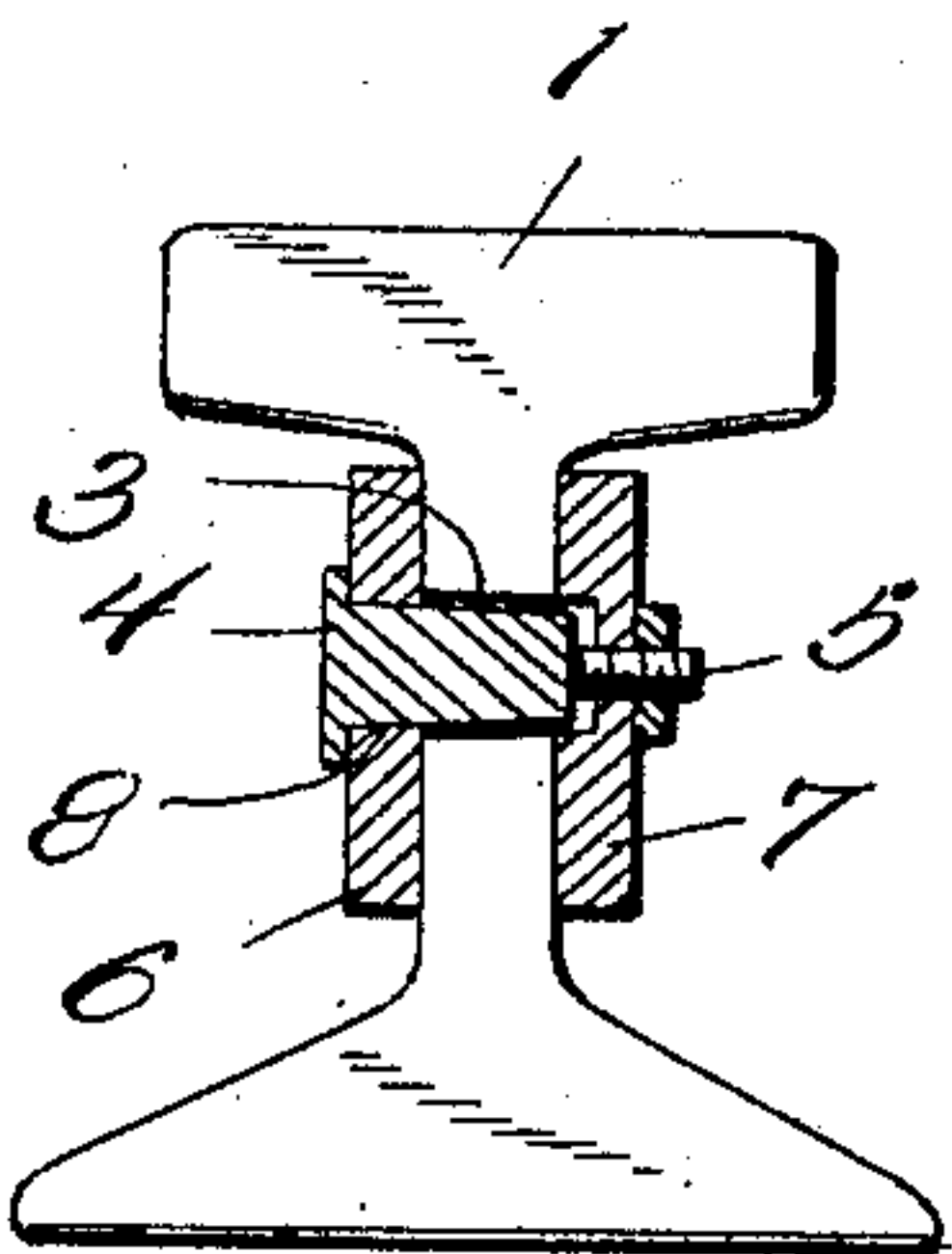
RAIL JOINT.

APPLICATION FILED DEC. 5, 1905.

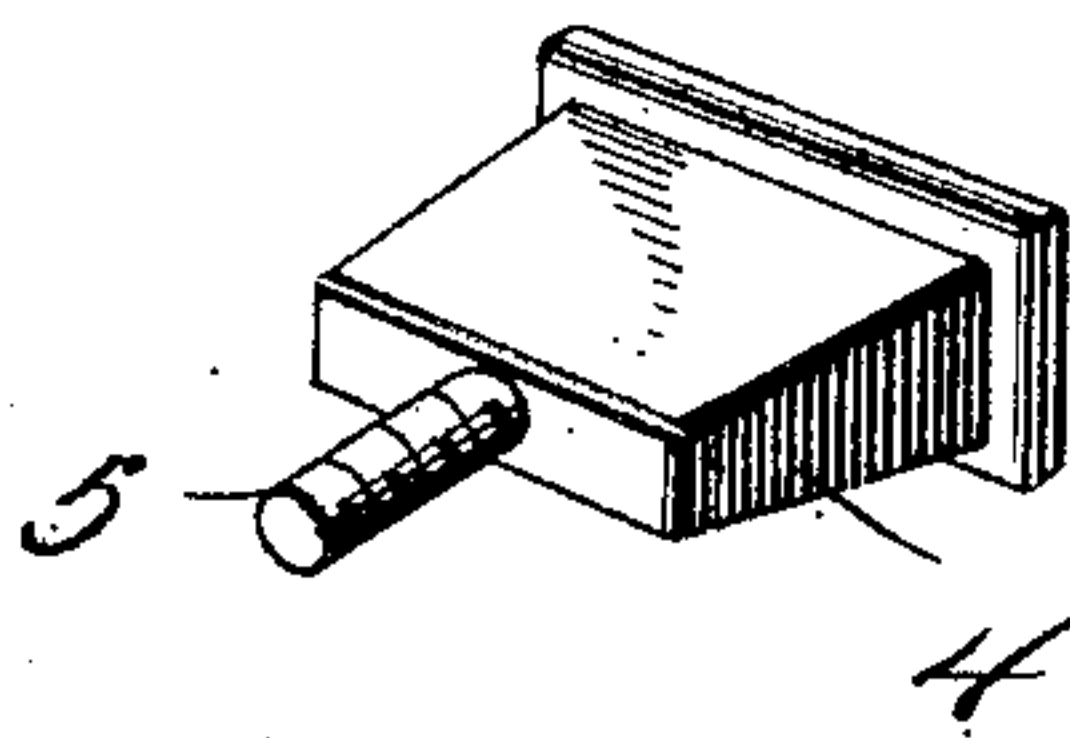
*Fig. 1.*



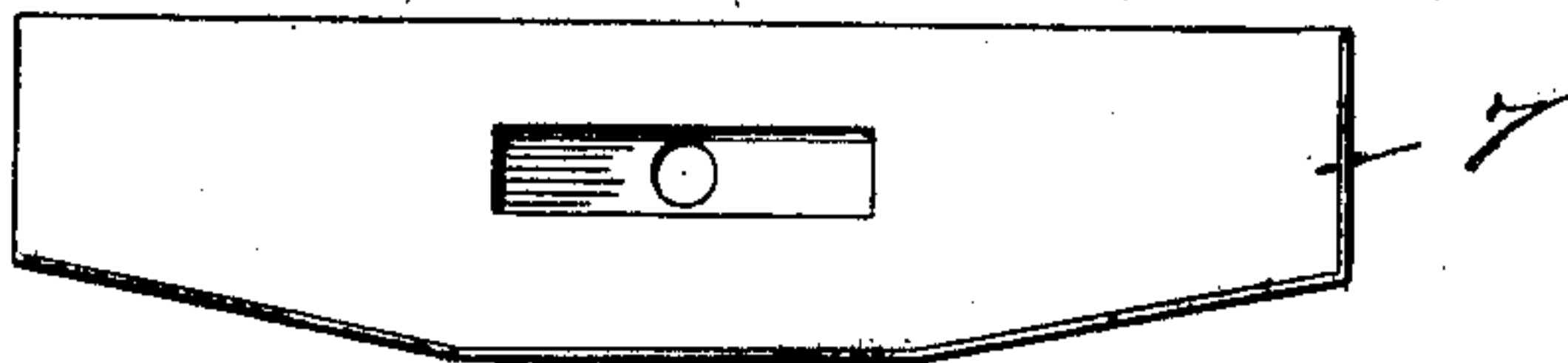
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



Witnesses

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# UNITED STATES PATENT OFFICE.

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## RAIL-JOINT.

No. 827,741.

Specification of Letters Patent.

Patented Aug. 7, 1906.

Application filed December 5, 1905. Serial No. 290,365.

*To all whom it may concern:*

Be it known that I, JEFFERSON D. MANESE, a citizen of the United States, residing at Manese, in the county of Blaine, Oklahoma Territory, have invented a new and useful Rail-Joint; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to rail-joints, and has for its object to provide a device of this character having novel means for keeping the joint rigid at all times and for holding both ends of the rails forming the joint in perfect registration, whereby a smooth continuous tread will be presented to the car-wheel passing over said joint.

With these and other objects in view the invention consists in the novel construction and arrangement of parts hereinafter described, and shown in the accompanying drawings, and particularly pointed out in the appended claims.

In the drawings forming part of this specification, and in which like numerals of reference designate corresponding parts, Figure 1 is a perspective view of a rail-joint constructed in accordance with this invention. Fig. 2 is a transverse sectional view taken through the joint. Fig. 3 is a perspective view of the plug. Fig. 4 is a plan view of the fish-plate 7, showing the inner face thereof.

Referring to the drawings, 1 and 2 designate the ends of rails forming a joint having recesses 3, adapted to receive a tapered plug 4. The recesses are tapered, as shown, to fit the plug, which is provided with a threaded projection 5, adapted to receive a threaded nut, as will be hereinafter explained. Fish-plates 6 and 7 are provided on opposite sides of said joint, and the plate 6 is provided with an elongated slot 8, through which said plug is adapted to pass. The plate 7 is provided with a recess which is adapted to receive the smaller end of said plug, thereby affording play, whereby said plug may be drawn tight whenever the same becomes loose, and an opening through which the threaded end of said plug passes. The fish-plates are provided with enlargements in the center to pre-

vent weakening where the plug passes through. It will be seen that the plug holds the two ends of said rails in firm registration and the jar usually experienced in a train passing over worn joints will be prevented and that by rotating the nut the plug can be readily tightened to effect a firm joint.

It will also be apparent that the joint will be simple, durable, and inexpensive and that changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit of the invention.

What I claim is—

1. A rail-joint, comprising a pair of rails having recesses in the ends, said recesses being tapered, a tapered plug, engaging said recesses, said plug having a projection, means engaging said projection for tightening said plug, substantially as described.

2. A rail-joint comprising a pair of rails, said rails being provided with tapered recesses, a pair of fish-plates disposed on opposite sides of said rails, one of said fish-plates having an elongated slot, and the other an aperture, a tapered plug passing through said recesses and fish-plates, and means for tightening said plug, substantially as described.

3. A rail-joint comprising a pair of rails, said rails being provided with transversely-tapered recesses, and a plug engaging said recesses, substantially as described.

4. A rail-joint comprising a pair of rails having transversely-tapered recesses, a tapered plug engaging said recesses, and means for tightening said plug.

5. A rail-joint having a pair of rails, having tapered recesses, a plug engaging said recesses, and means for tightening said plug.

6. A rail-joint having a pair of rails, said rails having tapered end recesses, a plug engaging said recesses, said plug having a threaded portion, and a nut engaging said plug.

In testimony whereof I have hereto affixed my signature in the presence of two witnesses.

JEFFERSON D. MANESE.

Witnesses:

JOHN H. JOHNSON,  
RICHARD DAVIS.