

No. 785,631.

PATENTED MAR. 21, 1905.

C. W. McCOY.

RAIL JOINT.

APPLICATION FILED NOV. 22, 1904.

Fig. 1.

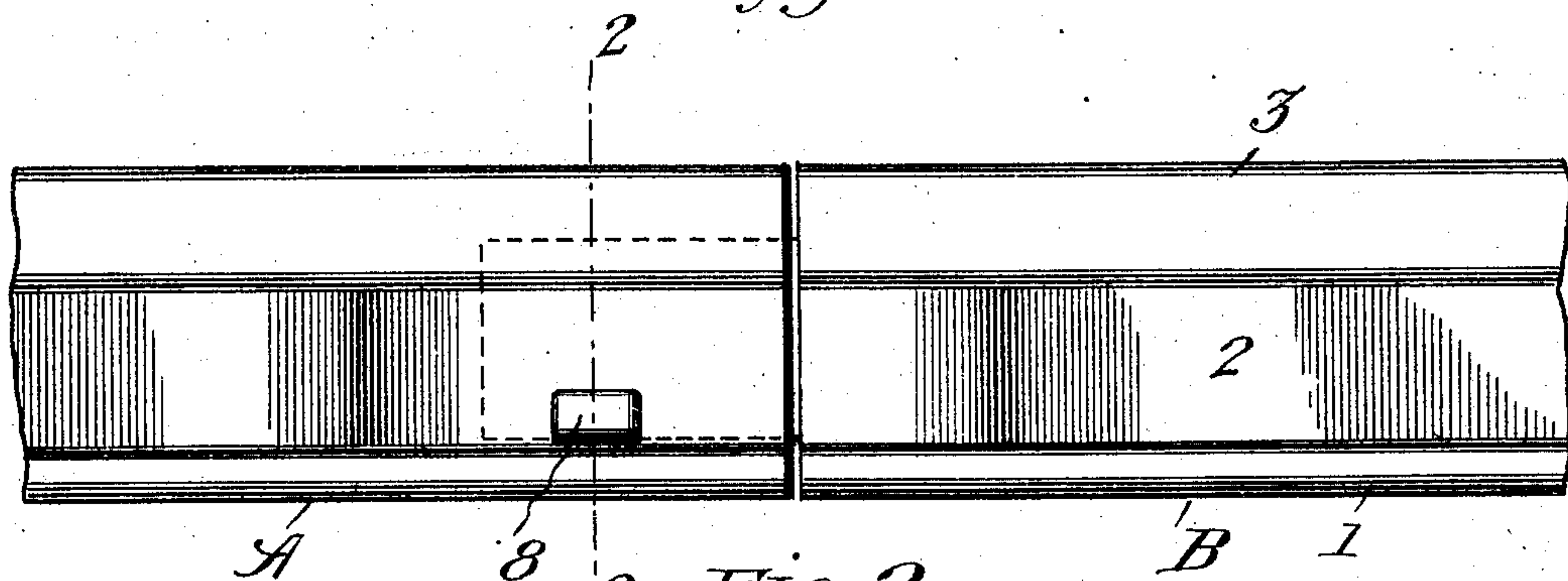


Fig. 2.

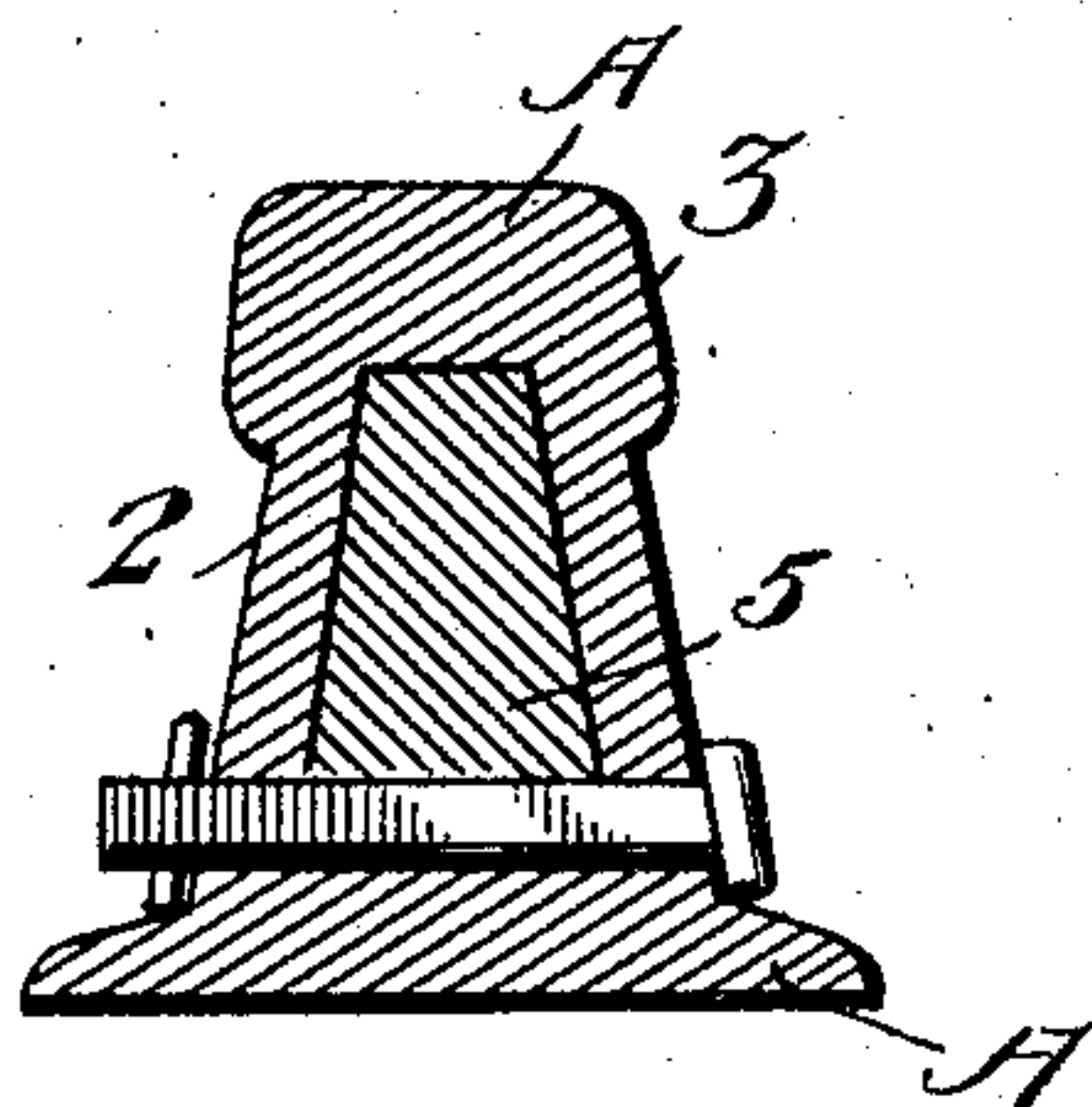
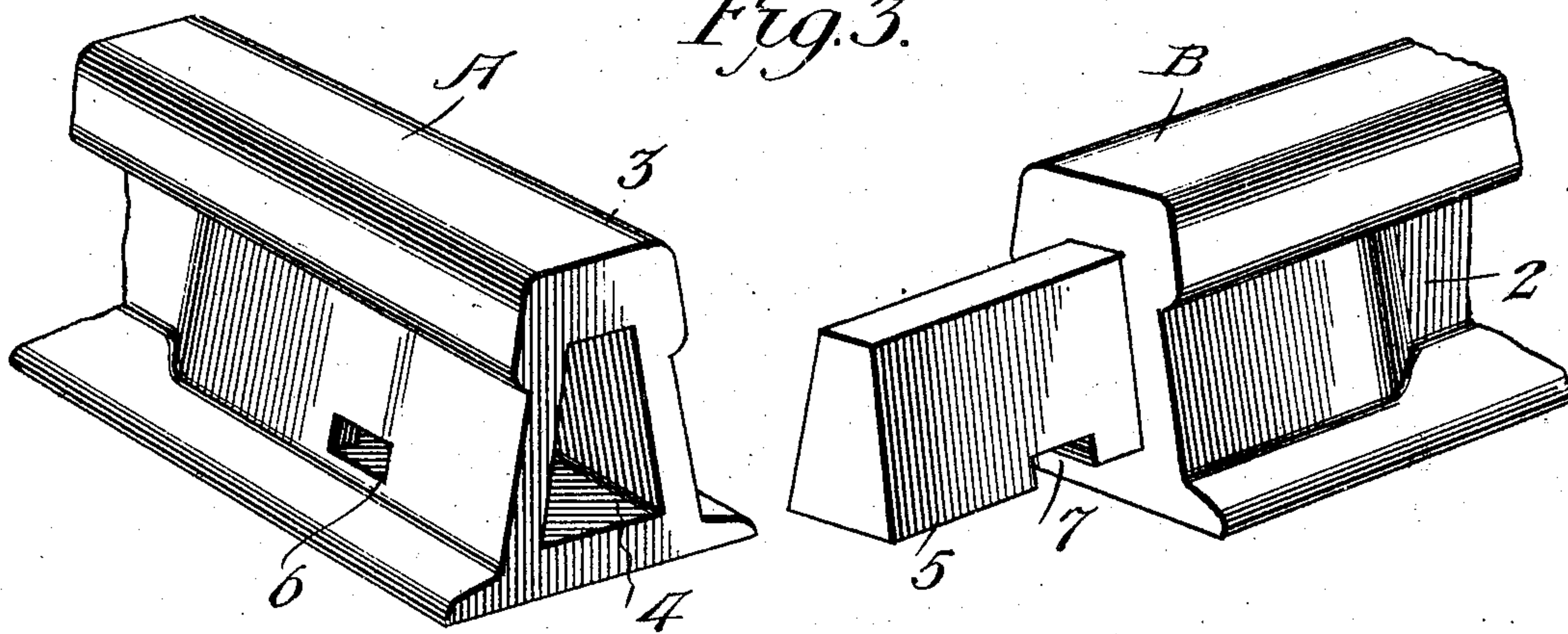


Fig. 3.



Witnesses

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CHARLES W. McCOY, OF REDBANK FURNACE, PENNSYLVANIA.

RAIL-JOINT.

SPECIFICATION forming part of Letters Patent No. 785,631, dated March 21, 1905.

Application filed November 22, 1904. Serial No. 233,900.

To all whom it may concern:

Be it known that I, CHARLES W. McCoy, a citizen of the United States, residing at Redbank Furnace, in the county of Clarion and State of Pennsylvania, have invented new and useful Improvements in Rail-Joints, of which the following is a specification.

My invention relates to rail-joints; and its primary object is to provide a new and useful joint whereby the ends of two adjacent rail-sections may be firmly united without the use of fish-plates to prevent the rails from sagging at their points of union and by means of which it is not necessary to position the adjacent ends of the rails upon a tie, as this joint will operate as effectually when the abutting ends are positioned between two ties.

The invention consists in the construction, combination, and arrangement of parts hereinafter fully described, claimed, and illustrated in the accompanying drawings, wherein—

Figure 1 is a side elevation of the abutting ends of two adjacent rail-sections united in accordance with my invention. Fig. 2 is a sectional view on the line 2 2, Fig. 1; and Fig. 3 is a detail perspective view of the abutting ends of the rail-sections.

Referring to the drawings by reference-numerals, 1 designates the bases, 2 the webs, and 3 the treads, of rail-sections A and B, which are of the usual form. The webs of the rail-sections are increased in thickness at their ends, as is fully disclosed in Fig. 3 of the drawings, to strengthen the rails at these points. The end of the rail-section A is provided with a recess 4, approximately triangular in cross-section and of a width greater than the width of the normal portion of the web 2. The end of the rail-section B has projecting therefrom an integrally-formed tenon 5. This tenon is also of a greater thickness than that of the web 2 and is similar in cross-section to the recess 4. This tenon is adapted to be inserted in the recess 4, and thereby securely unite the abutting ends of the rail-sections against sagging or any relative vertical movements. In

view of the fact that the tenon 5 is of a greater thickness than the webs 2 beyond the enlarged portions the rail-sections at their points of union are as strong, if not stronger, than the webs 2.

The enlarged portion of the web 2 of the rail-section A is provided with alining openings 6, with which a recess 7 in the tenon 5 is adapted to register. A key 8 is adapted to be passed through the openings 6 to engage in the recess 7 to prevent the rail-sections from having any longitudinal movement other than that which is necessary to permit of the usual contraction and expansion.

From the foregoing description, taken in connection with the accompanying drawings, the construction and mode of operation of the invention will be understood without a further extended description.

Changes in the form, proportions, and minor details of construction may be made within the scope of the invention without departing from the spirit or sacrificing any of the advantages thereof.

Having thus fully described the invention, what is claimed as new is—

In a rail-joint, a rail-section having its web enlarged adjacent its end and provided with a recess approximately triangular in cross-section and of a greater width than the normal portion of the web, another rail-section having its web increased in thickness adjacent its end and provided with a forwardly-projecting tenon approximately triangular in cross-section and of a greater thickness than that of the normal portion of the web, said tenon being provided with a recess, and a key adapted to pass through the first-named rail-section to engage in said recess.

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

CHARLES W. ^{his} × McCOY.
mark

Witnesses:

CHAS. E. KRATZER,
EDWIN E. KOCH.