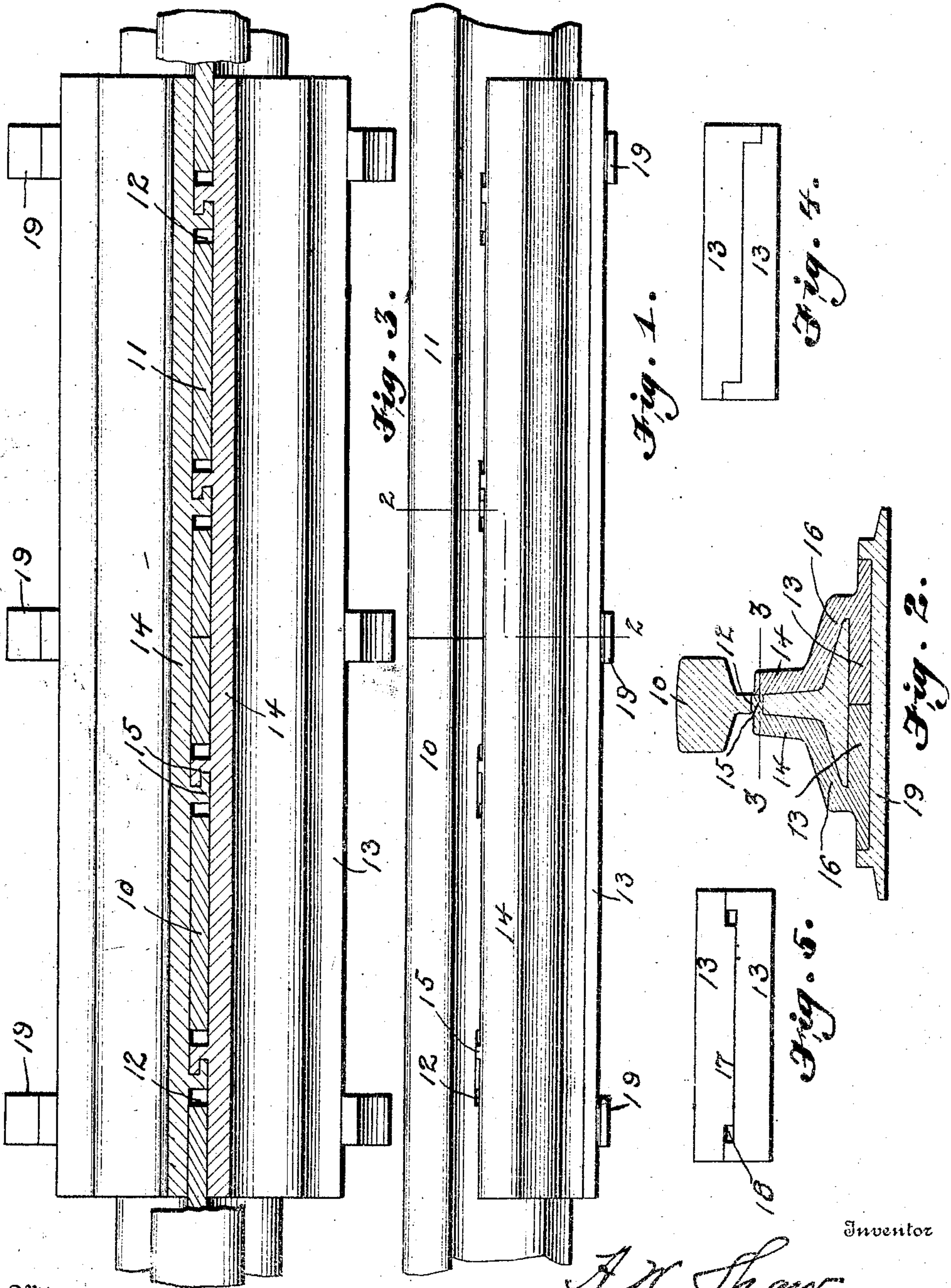


No. 842,915.

PATENTED FEB. 5, 1907.

A. W. SHAW.
RAIL JOINT.

APPLICATION FILED SEPT. 25, 1906.



Witnesses

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ARCHIBALD WASHINGTON SHAW, OF DREW, MISSISSIPPI.

RAIL-JOINT.

No. 842,915.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed September 25, 1906. Serial No. 336,106.

To all whom it may concern:

Be it known that I, ARCHIBALD WASHINGTON SHAW, a citizen of the United States, residing at Drew, in the county of Sunflower and State of Mississippi, have invented new and useful Improvements in Rail-Joints, of which the following is a specification.

This invention is a rail-joint, and more particularly that kind in which the ends of abutting rails are supported and held in alinement by a chair.

The invention comprises a chair which is in two separable sections, each of which has rail-engaging means and means for locking the sections together.

In the accompanying drawings, Figure 1 is a side elevation of the joint. Fig. 2 is a vertical section on the line 2 2 of Fig. 1. Fig. 3 is a horizontal section on the line 3 3 of Fig. 2. Fig. 4 is a bottom plan view of the joint-chair drawn to a reduced scale. Fig. 5 is a similar view of a modification.

Referring specifically to the drawings, 10 and 11 denote the ends of adjoining rails having transverse openings 12 in their webs.

The chair is in two separable sections, each of which comprises a base 13, having an upstanding flange 14, at the top of which are inwardly-extending hooks 15. The base portions of the chair meet under the rails and the latter are seated thereon. The flanges 14 engage the rail-webs on opposite sides and are also shaped to extend over the foot of the rails, as at 16. The hooks 15 are oppositely presented and extend into the openings 12, inside of which they interlock, as clearly shown in Fig. 3. The openings 12 are of such length as to permit sufficient endwise movement of the chair members to engage or disengage the hooks. The meeting edges of the base-sections of the chair members are stepped, as shown in Fig. 4.

In the modification shown in Fig. 5 one of the base-sections has a tongue 17, which extends into a recess 18 in the edge of the other section. The recess is of sufficient length to permit endwise movement of the sections to engage and disengage the hooks 15.

In use the chair members will be properly positioned with the hooks 15 interlocking, after which the chair will be spiked to the ties. The hooks prevent lateral as well as endwise separation of the chair members without interfering with the expansion or contraction of the rails from changes of temperature. To further secure the chair members against lateral separation, I provide plates 19, which extend transversely under the chair and have recesses in which the base portions of the chair members are seated. These plates are also spiked to the ties.

The joint herein described is strong and durable and can be readily applied to the rails. No special rail is required, it being necessary only to enlarge the usual bolt-holes in the web thereof to admit the hooks.

I claim—

1. The combination with the meeting ends of two rail-sections, the webs of which have transverse openings, of a chair comprising two separable sections each of which has a base portion extending under the rail, and an upstanding rail-engaging flange, and oppositely-presented hooks extending from said flanges into the transverse openings in the rail-webs, and interlocking therein.

2. The combination with the meeting ends of two rail-sections, the webs of which have transverse openings, of a chair comprising two separable sections each of which has a base portion extending under the rail, and an upstanding rail-engaging flange, oppositely-presented hooks extending from said flanges into the transverse openings in the rail-webs, and interlocking therein, and plates extending transversely under the chair and having recesses in which the chair seats.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ARCHIBALD WASHINGTON SHAW.

Witnesses:

T. M. RIDDELL,
F. E. SCOTT.