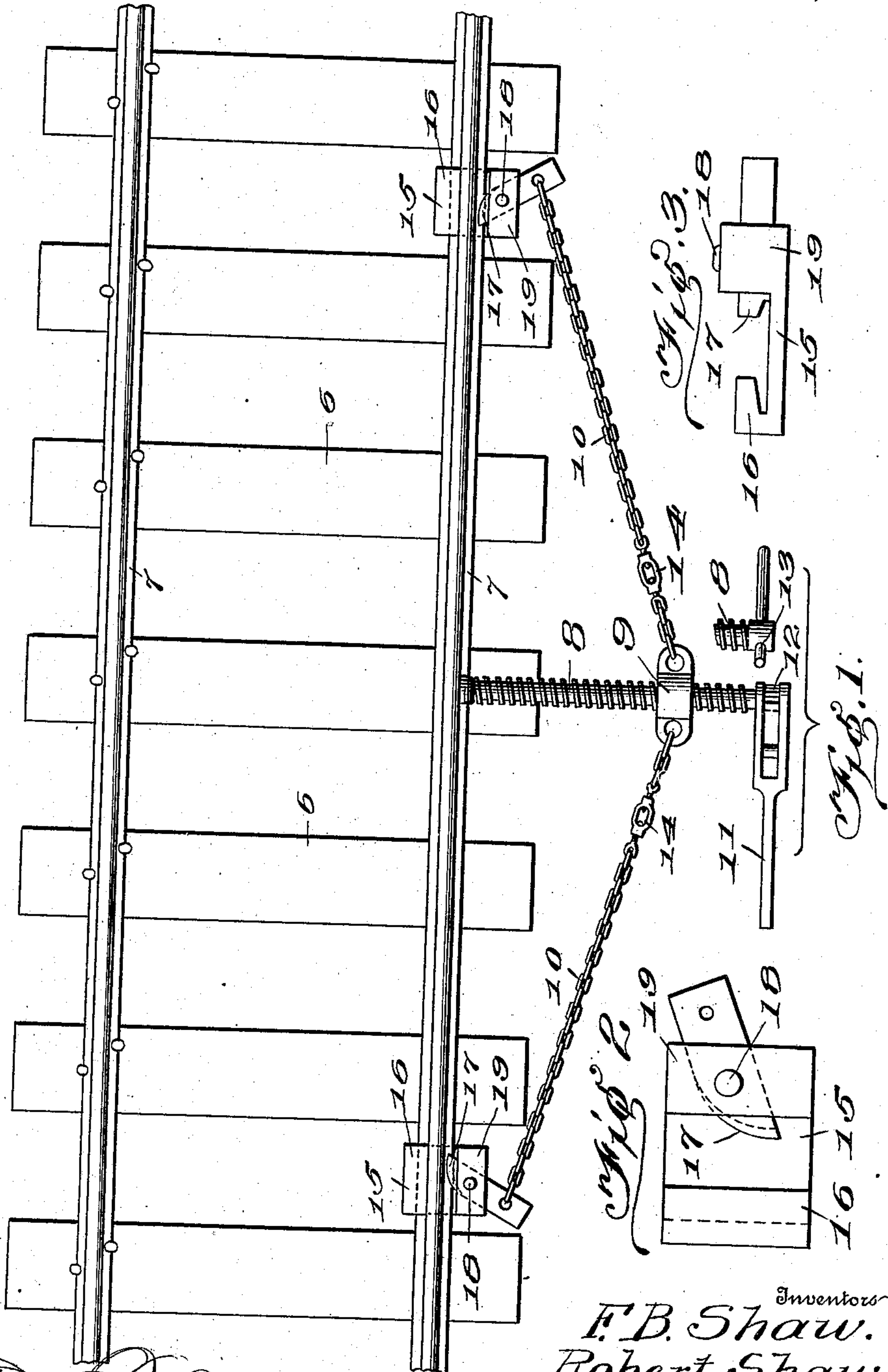


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 TRACK ALINING APPARATUS.
 APPLICATION FILED MAY 23, 1908.

916,040.

Patented Mar. 23, 1909.



Witnesses
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UNITED STATES PATENT OFFICE.

ROBERT SHAW AND FRANK B. SHAW, OF WARSAW, INDIANA.

TRACK-ALINING APPARATUS.

No. 916,040.

Specification of Letters Patent.

Patented March 23, 1909.

Application filed May 23, 1908. Serial No. 434,696.

To all whom it may concern:

Be it known that we, ROBERT SHAW and FRANK B. SHAW, citizens of the United States, residing at Warsaw, in the county of Kosciusko and State of Indiana, have invented certain new and useful Improvements in Track-Alining Apparatus, of which the following is a specification.

This invention is an apparatus for alining railway tracks, and has for its object to provide an improved and simple device of the kind which can be readily attached to a track section or rail and used to set up the same or to bend or force it to proper position with respect to the opposite rail.

The device will be found particularly useful in constructing and repairing railway tracks.

The invention is illustrated in the accompanying drawings, in which,

Figure 1 is a plan view of the apparatus. Fig. 2 is a detail in plan of a clamp to grip the rail. Fig. 3 is an end view of the clamp shown in Fig. 2.

Referring specifically to the drawings, 6 indicates the ties and 7 the rails of a railway track.

The invention is shown applied to one of the rails. It comprises a large or heavy screw 8 having thereon a traveling head or nut 9 the opposite arms of which are connected by chains 10 to the rail at a distance from the screw. The foot of the screw bears against the web of the rail, and in order to turn the screw it is provided with a lever 11 and a ratchet 12, and may also have holes 13 in its head in which a bar can be placed to turn the screw. The chains 10 are preferably provided with turn buckles 14 to take up the slack therein.

A preferred means for connecting the outer ends of the chains to the track consists of a block 15 flanged at one edge as at 16 to fit over the base of the rail on one side thereof, and having at the other edge a cam 17, which is pivoted by a bolt 18 in a recess in an upright part 19 at the outer side of the block. The cam is arranged to bear at its inner end against the base of the rail, and it is con-

nected at its outer end to the chain. When the chain is tightened by means of the screw the cam is turned to grip or clamp the rail base which thus holds the block and the chain, enabling the pressure of the screw to bend or shift the intermediate portion of the rail to the desired extent. By slacking the chain the clamp can be readily detached. Obviously other forms of clamps or attachment devices may be used for the same purpose. Also the chains can be made any length desired. In use, the clamps can be slipped under the rail between the ties, and the screw when in position will bear laterally against the web of the rail and consequently apply pressure thereto. This device may be applied to either side of the rail.

We claim:

1. The combination of a screw, a threaded head thereon, oppositely extending cables connected to said head, and clamps connected to the cables.

2. The combination of a screw, a threaded head thereon, oppositely extending cables connected to said head, and a clamp at the end of each cable, comprising a block recessed to receive a rail, and a cam pivoted on the block and connected to the cable and arranged to grip the rail when the cable is tightened.

3. The combination of a screw having means at one end to turn the same, a head having a threaded hole through which the screw extends, oppositely extending cables connected to said head, and a clamp at the outer end of each cable comprising a block having an undercut projection at one edge to engage over one side of a rail base, and a cam lever pivoted near the opposite edge of the block and adapted to engage the other side of the rail base, the outer end of the lever being connected to the cable.

In testimony whereof we affix our signatures, in presence of two witnesses.

ROBERT SHAW.
FRANK B. SHAW.

Witnesses:

JAMES J. BABCOCK,
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