

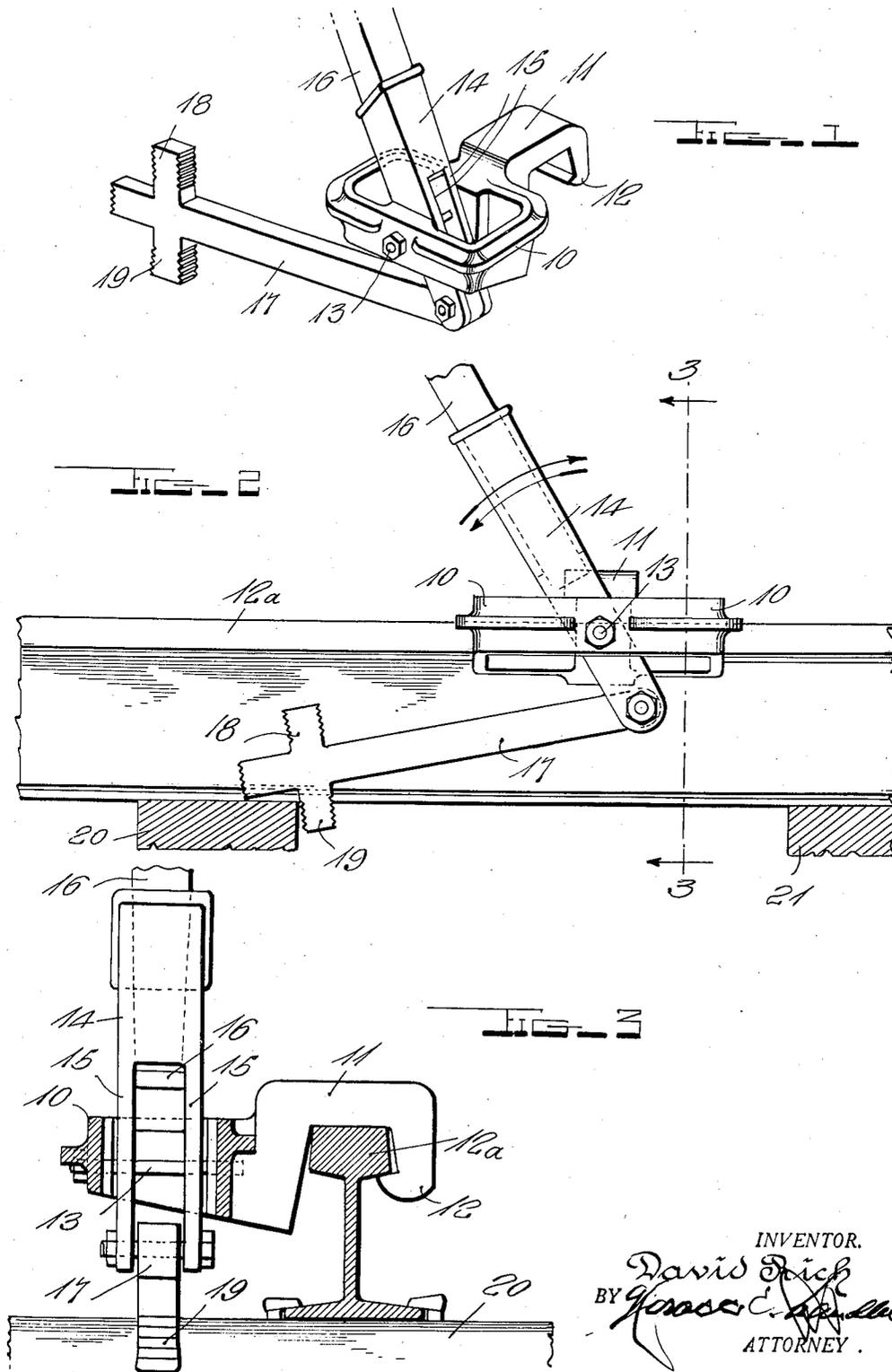
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D. RICH

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TIE-SPACING DEVICE

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INVENTOR.
David Rich
BY George C. [unclear]
ATTORNEY.

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2,188,819

TIE-SPACING DEVICE

David Rich, Spooner, Wis., assignor of fifteen per cent to August J. Lemke, ten per cent to Garnett R. McKeever, and ten per cent to Clarence E. Falk, all of Spooner, Wis., and ten per cent to Edward H. Grewe, Eau Claire, Wis.

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1 Claim. (Cl. 254-44)

This invention relates to new and useful improvements in devices for properly spacing railway ties after the railway rails have been placed thereupon but have not been securely attached thereto.

The principal object of the invention is to provide a device of this character which may be supported on one of the railway rails, and which may be so manipulated as to move a tie longitudinally of the rail, in either direction.

Another object is to provide a tie-spacing device which shall be strong and durable, as well as efficient in operation.

Other objects and advantages will be apparent from the following description when taken in connection with the accompanying drawing in which

Figure 1 is a perspective view of the device,

Figure 2 is a side elevation of the device when in use, and

Figure 3 is a section on the line 3-3 of Figure 2.

Referring to the drawing, 10 designates an open, elongated rectangular supporting frame having a laterally extending arm 11 formed on one of its sides, approximately midway of its ends. The outer end of this arm is turned downwardly and then inwardly to form a hook 12 adapted to overlie and engage the head of a railway rail 12a, whereby to support the frame 10 on the side of the rail. Extending across the frame 10, in line with the arm 11, is a pin 13 on which a rock lever 14 is pivotally mounted within the frame. The lower end portion of this lever extends below the frame 10 and is bifurcated as shown at 15, while its upper end portion extends above the frame and is hollow so as to provide a socket for an operating bar 16.

Pivotally mounted within the furcations 15 is one end of a tie-engaging member which is in the form of a bar 17 having lugs 18 and 19 formed upon and projecting in opposite directions from its upper and lower edges, respectively. The front and rear faces of these lugs and the free end of the bar 17, all of which are adapted to engage a tie, when the device is in use, are grooved to prevent slipping. As shown in Figure 2 of the drawing, 20 designates a tie to be moved into proper spaced relation with a tie 21.

When operating the device, it is put in position for use by first engaging the hook 12 over the

head of a rail 12a, so as to support the frame 10 longitudinally thereof, against its inner face, and at one side of a tie 20 to be moved into proper position with respect to the next preceding tie 21. The bar 16 is then seated in the socket of the lever 14 which latter will then be in position to be rocked in a vertical plane, longitudinally of the rail. If the tie 20 to be moved is too close to the preceding tie 21, the lug 19 of the bar 17 is placed against the near side of the tie 20, as shown in Figure 2, whereupon said tie may be pushed into proper position by moving the bar 16 to rock the lever 14, as will be clearly understood. If the movable tie 20 is to be drawn towards the tie 21, however, the lug 19 is hooked over its far side and the bar 16 moved in the opposite direction.

Should it be found necessary to move the tie 21, this is accomplished by pushing the operating bar 16 in the direction of the rail 12a so as to tilt the frame 10 to a sufficient degree to permit the bar 17 to be swung on its pivot until it extends in the opposite direction. When this has been accomplished and the frame 10 has been restored to its former position, the lug 18, which will then extend downwardly, may be caused to engage either side of the tie 21 according to the direction in which the tie is to be moved, whereupon the bar 14 is swung in the manner already described in connection with the movement of the tie 20.

What is claimed is:

A tie-spacing device comprising a substantially rectangular frame having a railhead unitary clamp projecting from one side thereof adapted to support said frame free from contact with the ties, a pivot extending through said frame centrally of its length to engage opposite sides thereof, an operating lever having a lower end pivoted above its extremity on said pivot, the lower end of said lever projecting below said frame, a pivot carried by the lower extremity of the lever below said frame, and a reversible tie pusher mounted on the last mentioned pivot whereby it may be swung forwardly and backwardly of said frame, said tie pusher consisting of an elongated bar having oppositely disposed arms extending from the bar in spaced relation to the free end thereof.

DAVID RICH. 50