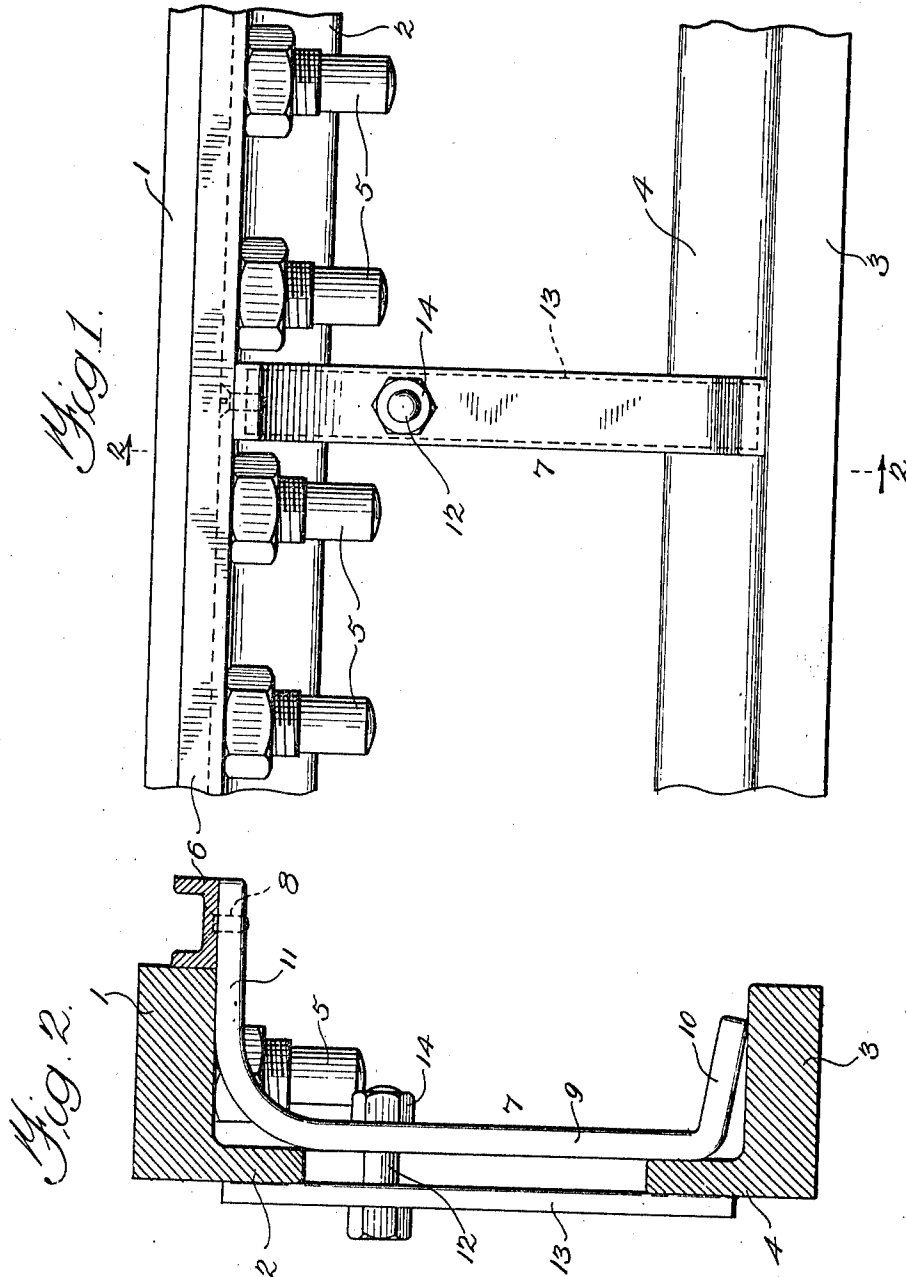


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 MEANS FOR SECURING DOFFER SUPPORTING RAILS TO SPINNING FRAMES.
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1,061,493.

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UNITED STATES PATENT OFFICE.

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MEANS FOR SECURING DOFFER-SUPPORTING RAILS TO SPINNING-FRAMES.

1,061,493.

Specification of Letters Patent.

Patented May 13, 1913.

Application filed December 2, 1910. Serial No. 595,231.

To all whom it may concern:

Be it known that I, BURT A. PETERSON, a citizen of the United States, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Means for Securing Doffer-Supporting Rails to Spinning-Frames.

Portable machines for doffing spinning frames are ordinarily supported, when in use, upon a rail secured to and extending along the front of the spinning frame. This invention relates to an inexpensive and convenient means for rigidly attaching such a rail to a spinning frame.

In the accompanying drawings Figure 1 is a fragmental side elevation of the spindle rail of a spinning frame, showing a doffer-supporting rail attached thereto by means embodying the features of my invention. Fig. 2 is a section on line 2—2 of Fig. 1.

In the drawings, 1 designates the upper horizontal web of the spindle rail, 2 the downwardly extending web or flange at the rear of the web 1, 3 the lower horizontal web of the spindle rail, and 4 the upwardly extending flange or web at the rear of the part 3. 5 are the portions of the spindle bases extending below the rail or web 1.

The doffer-supporting rail may be of any suitable form or construction, the one herein illustrated being a channel bar 6. It is attached to the spinning frame by means comprising a suitable number of brackets 7 secured to the rail in a suitable way, as by screws 8. Each bracket consists of a straight vertical portion 9 the lower end of which is adapted to contact the flange 4, an angular foot portion 10 adapted to bear against the upper side of the web 3, and the upper angular portion 11 to which the rail is affixed and which is adapted to bear against the lower side of the web 1.

The bracket 7 is secured to the spindle rail by means of a bolt 12 extending through the upper part of the bracket-portion 7 and a cross-piece or bridge 13 bearing against the rear side of the flanges 2 and 4, the bolt being provided with a nut 14.

In the manufacture of the bracket 7 the angle between the portions 9 and 11 is made somewhat greater than that indicated in

Fig. 2, so that when the nut 14 is tightened up the portion 11 will be drawn tightly against the lower side of the flange 1 and thus rigidly hold the rail 6 at the desired height. The parts are so proportioned that as the nut 14 is turned home the rail 6 will be drawn tightly against the outer edge of the flange 1 and thereby secure the rail at the desired distance from the center line of the spindles (not shown) carried by the flange 1.

Some forms of doffers comprise devices adapted to engage the spindle bases 5. It will be seen that the inwardly curved form of the bracket 7 places it out of line with the spindle bases and thus out of the way of the base-engaging devices.

I claim as my invention:

1. The combination, with the spindle rail of a spinning frame, of a doffer-supporting rail, a resilient member secured to the doffer-supporting rail and means for engaging said member with the spindle rail, said member being adapted to yield and be placed under tension as it is being engaged with the spindle rail.

2. A doffer-supporting rail having an attaching bracket secured thereto, said bracket consisting of a vertical portion 9, an angular lower portion 10, and an angular resilient upper rail-bearing portion 11.

3. The combination, with the spindle rail of a spinning frame, of a doffer-supporting rail, a bracket secured to the doffer-supporting rail and located at one side of the spindle rail, a member located at the opposite side of the spindle rail, and means for clamping said bracket and said member together.

4. The combination, with the spindle rail of a spinning frame, of a doffer-supporting rail, a bracket secured to the doffer-supporting rail, said bracket having an angular upper rail-bearing portion, and means acting upon said bracket near said upper portion to draw said upper portion into close contact with the spindle rail.

5. The combination, with the spindle rail of a spinning frame, said rail comprising the upper horizontal web 1, the lower horizontal web 3, and the vertical webs 2 and 4, of a doffer-supporting rail, a bracket having a vertical portion contacting the forward

side of the web 4, a foot portion bearing
against the web 3, and an angular portion
11 to which the doffer-supporting rail is
secured, a cross-piece located at the rear
5 side of the webs 2 and 4, and a bolt extend-
ing through the upper part of the vertical
bracket-portion and through the cross-piece.

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

BURT A. PETERSON.

Witnesses:

J. F. ELWOOD,
LOUISE A. CULVER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents
Washington, D. C."