W. W. HORN.

FOLDING TRESTLE.

APPLICATION FILED AUG. 7, 1915.

1,175,522. Patented Mar. 14, 1916.

Fig. 1.

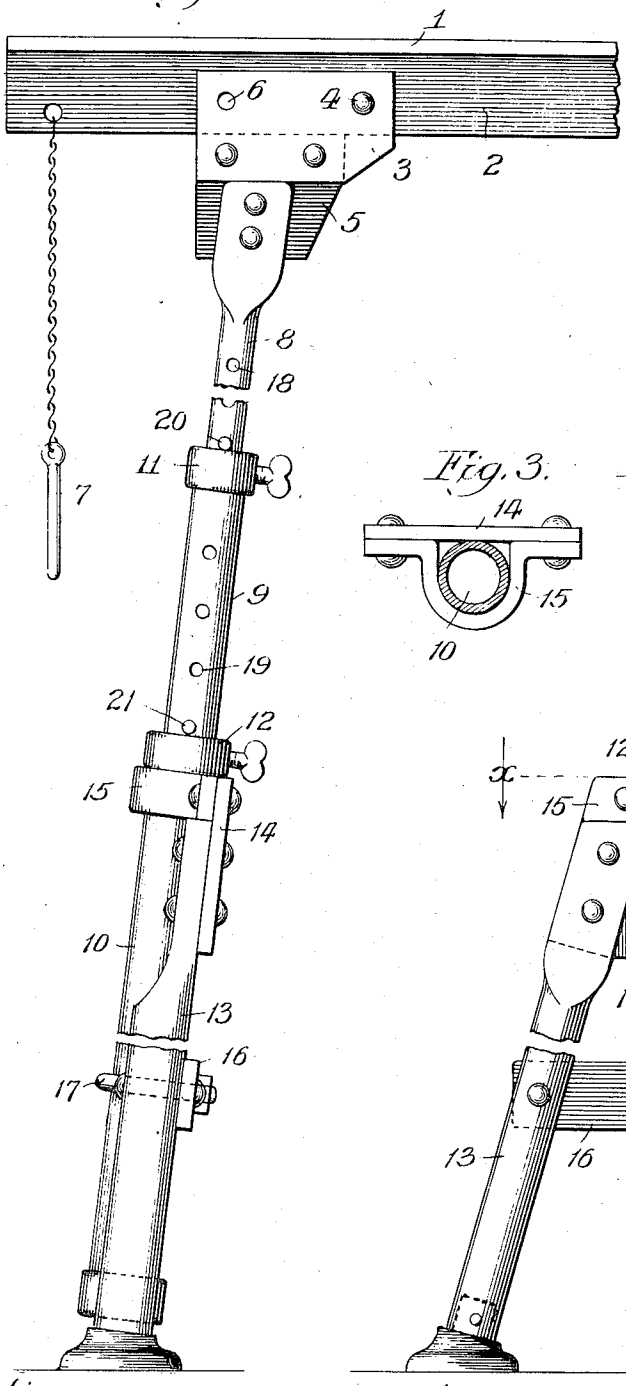
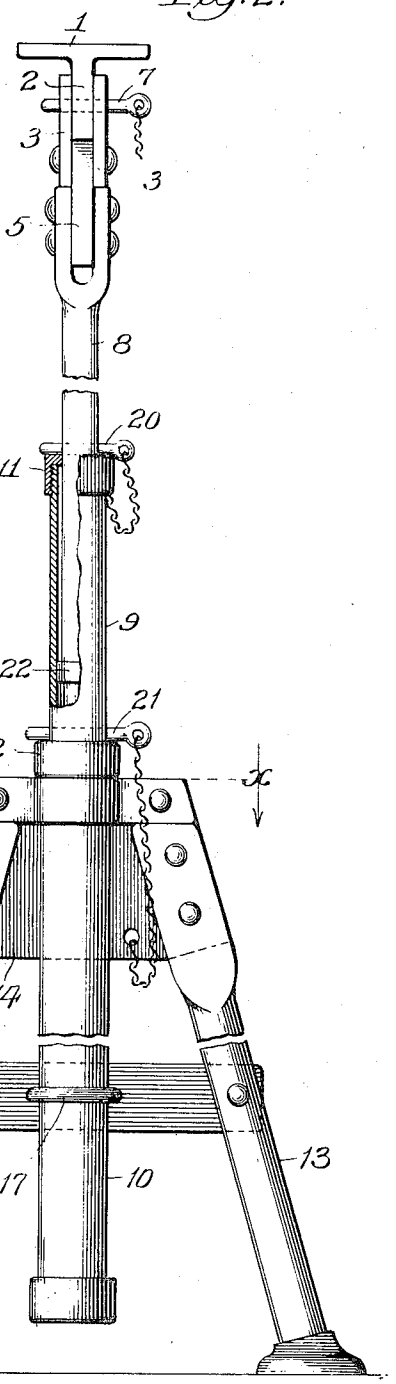


Fig. 3.

Fig. 2.



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FOLDING TRESTLE.

1,175,522. Specification of Letters Patent. Patented Mar. 14, 1916.

Application filed August 7, 1915. Serial No. 44,160.

To all whom it may concern:

Be it known that I, WILLIAM W. HORN, a citizen of the United States of America, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Folding Trestles, of which the following is a specification.

This invention relates to that class of folding trestles for builders and like uses, which forms the subject matter of my prior Letters Patent, No. 1,143,397, dated June 15th, 1915. And the present improvement has for its object to provide a simple and substantial structural formation and combination of parts adapted to fold compactly together and when unfolded is capable of vertical extension to varied requirements as to height in building operations, all as will hereinafter more fully appear.

In the accompanying drawings:—Figure 1, is a side elevation of an end portion of the trestle in an unfolded condition for use. Fig. 2, is an end elevation of the same, parts being shown in section. Fig. 3, is a detail horizontal section on line *x*—*x*, Fig. 2.

Similar reference numerals indicate like parts in the several views.

Referring to the drawings, 1 designates the longitudinal supporting rail of the trestle, preferably formed of structural T iron, as shown with its vertical web 2, adapted to form a connecting element for the folding trestle legs hereinafter described.

3 designates a pair of pivot plates, which are pivoted at opposite sides of the vertical web 2 aforesaid by hinge pins, or rivets 4, passing through orifices in end portions of said plates as shown.

5 designates a spacing plate secured between the pivot plates 3 by rivets or other usual fastening means and adapted to hold said plates in proper spaced relation. The lower portion of the spacing plate 5 depends a distance below the pivot plates aforesaid, for the attachment of the upper member or section of the extension leg of the trestle hereinafter described.

6 designates alined orifices formed in the pair of hinge plates 3 and in the web 2 of the supporting rail 1, and adapted to receive a locking pin 7, for locking the hinge plate and supporting rail in an unfolded condition.

The supporting legs of the trestle are made extensible and are preferably formed in three sections to-wit: an upper section 8, an intermediate section 9, and a lower or base section 10, hereinafter described in detail. The upper leg section 8, aforesaid, is preferably formed of wrought metal tubing, with its upper end split and spread apart to form a yoke for the reception of the lower portion of the spacing plate 5, to which it is riveted or otherwise secured in a fixed and substantial manner. The intermediate leg section 9, aforesaid, is also formed preferably of wrought metal tubing, having an internal diameter greater than the external diameter of the upper leg section 8 aforesaid, so as to slidingly receive said upper leg section 8 which is guided therein by a cap piece 11, on the upper end of said intermediate leg section 9. The lower leg section 10, aforesaid, is formed in part of wrought metal tubing of a larger diameter than the intermediate leg section 9, with its bore of sufficient diameter to slidingly receive said intermediate leg section 9, which is guided therein by a cap piece 12 on the upper end of the lower leg section 10. Said lower leg section 10 in addition comprises a pair of laterally spread or inclined legs or braces 13, preferably of wrought metal tubing, and which are secured to the above mentioned tubular member 10, by means as follows: 14 designates a transverse plate secured to the member 10, aforesaid by a clip plate 15, disposed beneath the cap piece 12, of said member 10. Said clip plate 15 is of less height than the plate 14, so as to leave the lower portion thereof free for the attachment of the upper ends of the inclined legs 13 aforesaid, which are flattened for such purpose and riveted or otherwise secured to the transverse plate 14, as illustrated in Figs. 1 and 2. 16 designates a transverse tie bar secured at its respective ends to the inclined legs 13 aforesaid, and at its midlength to the tubular leg section or member 10 by a U bolt or clip 17, as shown.

18 and 19 designate vertical series of holes, formed in the leg sections 8 and 9, and adapted to receive pins 20 and 21, by which they are held to the desired vertical adjustment during use.

The leg sections 8 and 9 may, when so desired, be provided with stop collars or enlargements 22 on their lower ends, adapted for contact with the guide caps 11 and 12 of the respective parts, to prevent accidental disassociation of the trestle parts.

Having thus fully described my said invention what I claim as new and desire to secure by Letters Patent is:—

1. A folding trestle comprising, a supporting rail having a depending longitudinal web, a pair of hinge plates pivoted at one end to the longitudinal web aforesaid, a spacing plate imposing spaced relation on said hinge plates, a sectional trestle leg, the upper member of which is formed into a yoke at its upper end adapted to receive the lower portion of the aforesaid spacing plate and have abutment against the lower ends of the aforesaid hinge plates, means for securing the branches of said yoke to said spacing plate, and means for locking the hinge plates and longitudinal web aforesaid together, substantially as set forth.

2. A folding trestle comprising, a supporting rail, and a sectional trestle leg hinged to said rail, said leg comprising a series of vertically extensible tubular members the upper one of which has hinge connection with supporting rail aforesaid and the lower one of which is provided with transverse inclined legs secured to the central tubular portion of said lower member by a transverse plate and a clip plate, substantially as set forth.

Signed at Chicago, Illinois, this 4th day of August, 1915.

WILLIAM W. HORN.