A. W. GUTHAT.

TRESTLE.

APPLICATION FILED JUNE 12, 1915.

1,191,301.

Patented July 18, 1916.

2 SHEETS—SHEET 1.

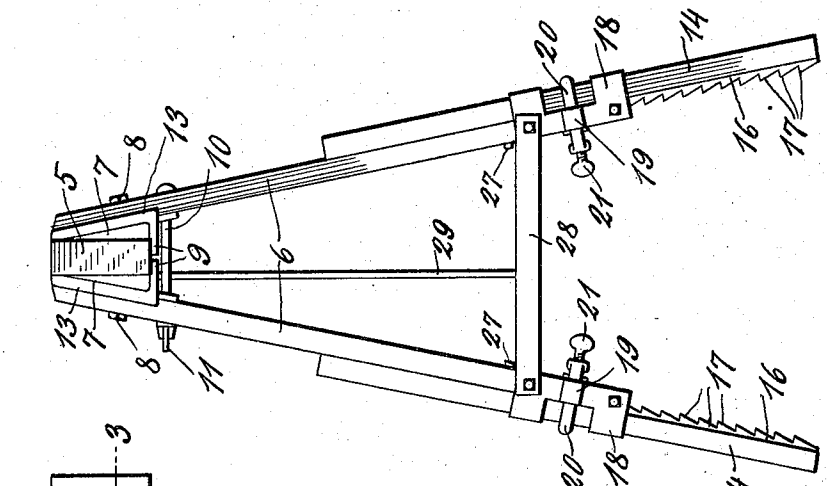


Fig. 2.

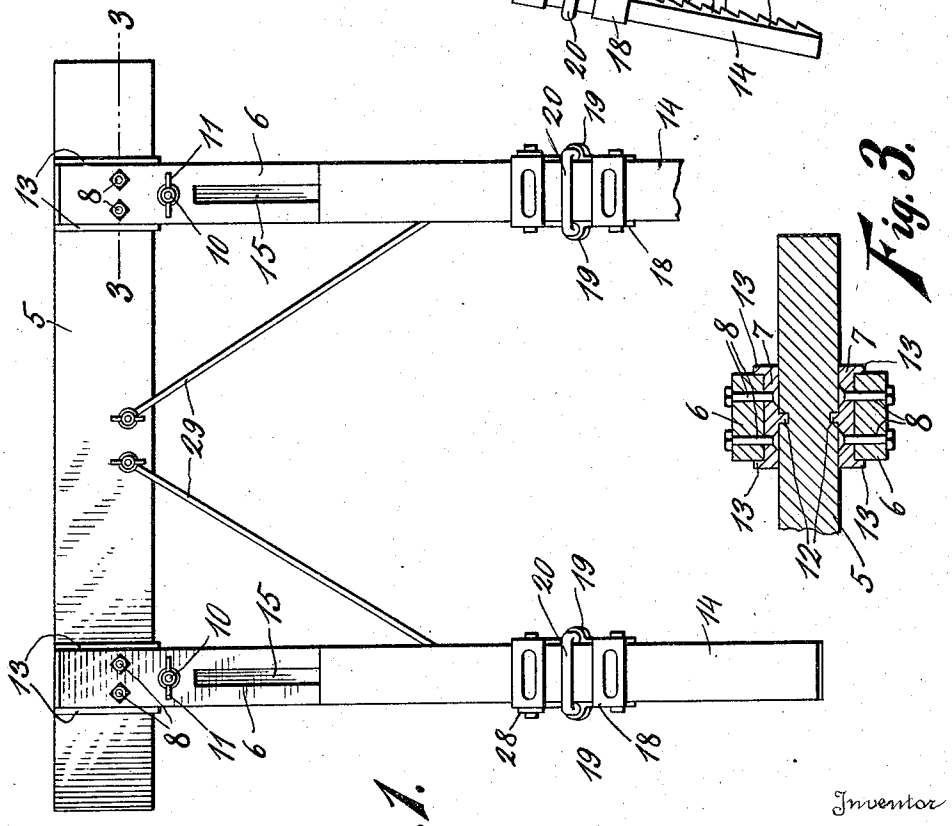


Fig. 3.

Fig. 1.

Witnesses

Einar Larsson

E. F. Camp

Inventor

Albert W. Guthat

By Miles B. Thomas.

Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

A. W. GUTHAT.

TRESTLE.

APPLICATION FILED JUNE 12, 1915.

1,191,301.

Patented July 18, 1916.

2 SHEETS—SHEET 2.

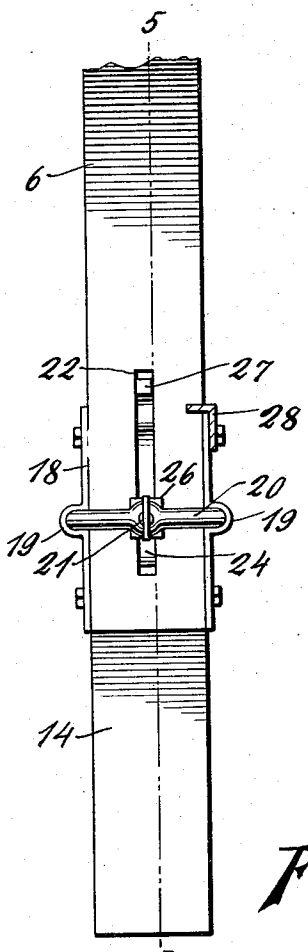


Fig. 4.

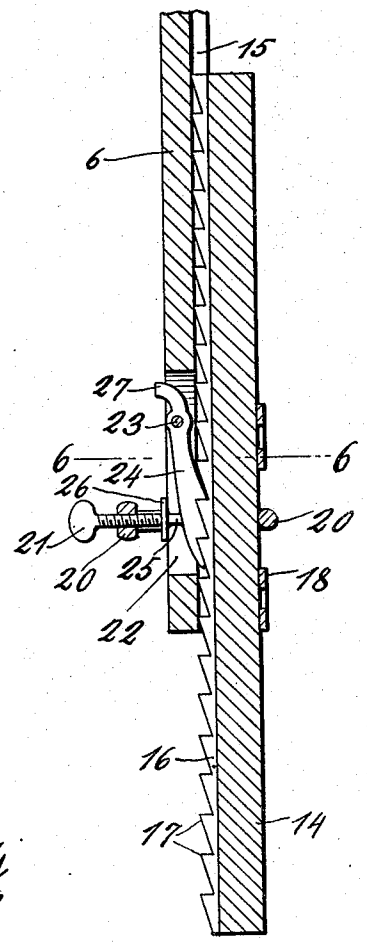


Fig. 5.

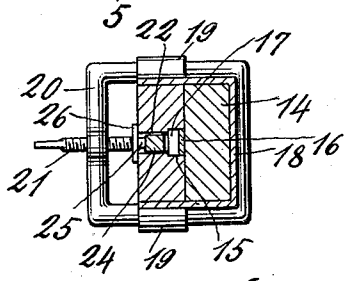


Fig. 6.

Witnesses

Einar Larson

E. F. Lamp

Inventor

Albert W. Guthat

By Miller & Stevenson,

Attorneys.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ALBERT W. GUTHAT, OF CHICAGO, ILLINOIS.

TRESTLE.

1,191,301. Specification of Letters Patent. Patented July 18, 1916.

Application filed June 12, 1915. Serial No. 33,781.

To all whom it may concern:

Be it known that I, ALBERT W. GUTHAT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Trestles, of which the following is a specification.

This invention relates to trestles employed for supporting scaffolding, and its object is to provide a strong, safe and durable device of this kind, and one which is simple in construction, and which may be easily taken apart and adjusted.

The herein stated object is attained by means of a novel combination and arrangement of parts to be hereinafter described and claimed, reference being had to the accompanying drawing in which—

Figure 1 is a side elevation of the trestle partly broken away; Fig. 2 is an end view of the same; Fig. 3 is a horizontal section on the line 3—3 of Fig. 1; Fig. 4 is an elevation of the adjustable connection between the leg sections of the trestle; Fig. 5 is a section on the line 5—5 of Fig. 4 and Fig. 6 is a cross section on the line 6—6 of Fig. 5.

Referring specifically to the drawings, the trestle comprises a horizontal beam or plank 5 supported by divergent legs 6, on which beam the scaffold boards are supported in the usual manner. Two pairs of legs are provided, each pair having at its upper ends means for supporting the beam 5, said ends being spaced sufficiently to accommodate the beam. These supporting means comprise plates 7 rigidly secured to the inner faces of the legs by bolts 8, or other suitable fastenings, and are provided with an outstanding horizontal bottom flange 9, forming a shelf on which the beam seats. Each leg carries one of these supporting devices, the supporting devices of the members of the respective pairs of legs being opposite each other and coöperating to support the adjacent end of the beam. Beneath the shelf, the members of each pair of legs are connected by a bolt 10 provided with a wing nut 11, these parts being provided to hold the legs against spreading. In order to prevent the beam from moving in the direction of its length, that portion which is located between the legs has vertical grooves in its side faces in which seat vertical ribs 12 on the faces of the plates 7. On the ends of the plates 7 are short flanges 13 which fit over the edges of the legs and thus assist to hold the plates in place on the legs.

The legs 6 have a bottom section 14, an adjustable connection being provided in order that the trestle may be adjusted as to height. This connection comprises the following parts: In the outer face of the leg section 6 is a longitudinal groove 15 in which slidably fits a corresponding rib 16 mounted on the contiguous inner face of the leg section 14, said rib having ratchet teeth 17. To the lower end of the leg section 6 is rigidly secured a yoke-shaped plate 18 which straddles the adjacent portion of the leg section 14. The side portions of the yoke have bearings 19 which support a link 20 which extends around both leg sections, that portion of the yoke plate 18 which straddles the leg section 14 having a recess to accommodate the link. That portion of the link which is opposite the inner face of the leg section 6 is spaced therefrom and has, midway between its ends, a tapped hole which takes a thumb screw 21. In the leg section 6 is a recess 22 which opens through the inner face thereof and communicates with the groove 15. In this groove is pivotally mounted, on a transverse pin 23, a pawl or dog 24, which is designed to engage the ratchet teeth 17. From the back of the pawl extends a stem 25 having an enlargement 26 at its outer end and located opposite the inner end of the thumb screw 21. The pawl also has a finger piece 27 which projects from the recess 22 and is designed to afford a means for releasing the pawl if it should be stuck to the ratchet teeth.

To adjust the leg sections to the desired height, the thumb screw 21 is backed until the pawl 24 is clear of the ratchet teeth 17, the pawl dropping back by gravity, unless it should stick, in which event it can be disengaged by a rap on the finger piece 27. The leg sections are now unlocked, and free to be adjusted relative to one another, and after the desired adjustment is effected, the thumb screw is advanced to engage the pawl with the ratchet teeth, whereupon the leg sections are securely locked together in adjusted position. The mounting of the ratchet bar 16 in the groove 15 effectually prevents a sidewise twist of the leg sections, thereby preventing slippage of the pawl out of engagement with the ratchet teeth. The sections 6 of each pair of legs are provided

with an angle iron spacing bar 28 from which braces 29 extend to the beam 5.

I claim:—

The combination of a pair of members having a slidable connection to permit adjustment as to length, one of said members having a longitudinal ratchet bar and the other member having a recess opening to said ratchet bar, a pawl pivotally mounted in the recess and adapted to engage the ratchet bar, the rear end of the pawl projecting from the recess, a yoke carried by the last-mentioned member and straddling the other member, a link carried by the yoke and passing around both members, and a screw carried by the link and engageable with the pawl for locking the same to the teeth of the ratchet bar.

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

ALBERT W. GUTHAT.

Witnesses:

S. J. LEHRER,

H. G. BATCHELOR.

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