A. L. TIDYMAN.

TRESTLE.

APPLICATION FILED MAR. 1, 1918.

1,303,416.

Patented May 13, 1919.

Fig. 1.

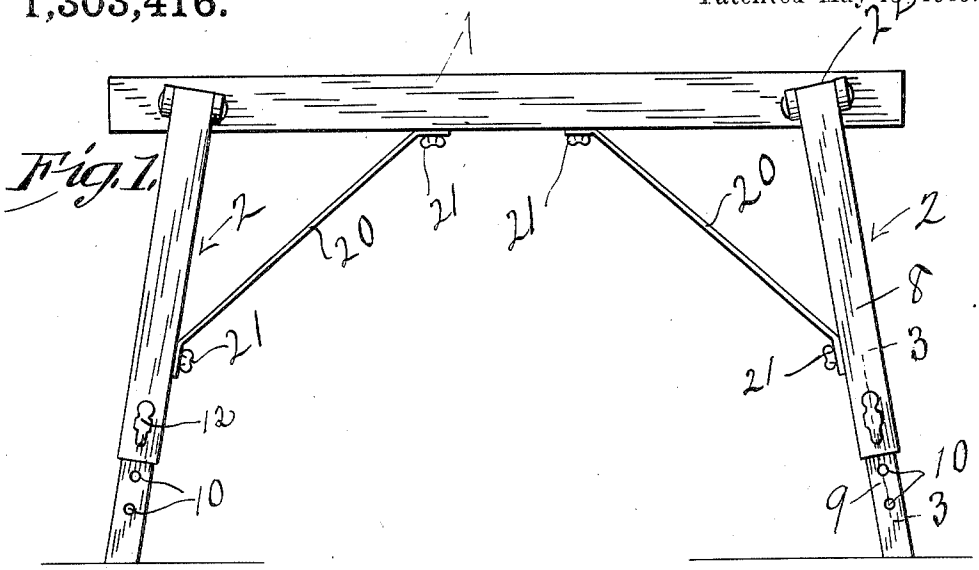


Fig. 2.

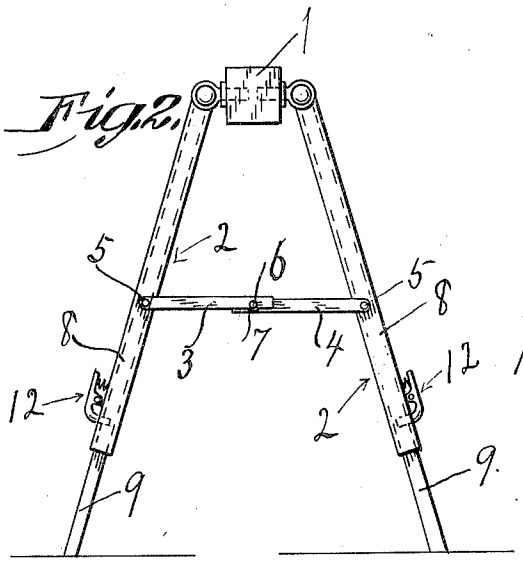
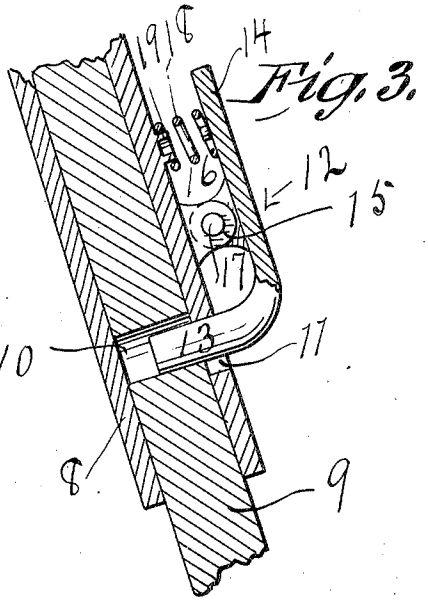


Fig. 3.



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TRESTLE.

1,303,416. Specification of Letters Patent. Patented May 13, 1919.

Application filed March 1, 1918. Serial No. 219,807.

To all whom it may concern:

Be it known that I, ALVIN L. TIDYMAN, a citizen of the United States, residing at Jennings, in the county of Decatur and State of Kansas, have invented certain new and useful Improvements in Trestles, of which the following is a specification.

This invention relates to trestles for use by masons, carpenters, and for other purposes.

The object of the invention is to provide a trestle which is light and strong and the legs of which may be adjusted to vary the height of the trestle.

Another object is to provide simple and quickly operable means for connecting the legs in adjusted position.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed may be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 represents a side elevation of a trestle constructed in accordance with this invention,

Fig. 2 is an end elevation thereof, the removable braces not being shown, and

Fig. 3 is an enlarged detail sectional view taken on the line 3—3 of Fig. 1.

In the embodiment illustrated, a cross beam 1 is shown having telescoping extensible legs 2, two of which are mounted at each end of beam 1 and hingedly connected therewith. Each pair of these legs diverge as shown in Fig. 2 and are connected midway their lengths by braces which are composed of sections 3 and 4 hingedly connected at one end to the legs 2 and detachably connected at their free ends, one of said ends having a pin 6 projecting laterally from its outer face and the other, an aperture 7 to interlockingly engage said pin and hold the legs in spread operative position against collapse.

The legs 2 are composed of tubular members 8, the upper ends of which are hingedly connected with the opposite sides of the beam 1 and slidably mounted in these sections 8 are sections 9 which are preferably made solid as shown in Fig. 3, and which are provided with a plurality of longitudinally spaced apertures or sockets 10 adapted to be alined with similar apertures 11 formed in the outer face of section 8. Mounted on each leg section 8 is a spring pressed locking catch 12 here shown L-shaped in form, the short arm 13 of which is made round to facilitate its entrance in the apertures 10 and 11 for locking the sections 8 and 9 in adjusted position. The other or longer arm 14 is preferably flattened and is hingedly connected intermediately of its ends to an apertured ear 15 carried by the outer face of section 8 (see Fig. 3). This arm 14 is also provided with a laterally extending apertured ear 16 through which and the ear 15 passes a pintle 17 which pivotally mounts the catch on the leg and spaces the arm 14 of said catch the proper distance from said leg to insure the correct operation thereof.

A coiled spring 18 is arranged between the free end of arm 14 and the outer face of leg section 8 and exerts its force to normally force said end outward and the arm 13 inward so that said arm 13 will be yieldably held in locking engagement with the apertures 10 and 11 and thereby secure the sections 8 and 9 of the leg in adjusted relation. As shown, a laterally extending base 19 is carried by the outer face of the leg section 8 and around which one end of the coiled spring 18 is seated to assist in retaining said spring in position.

Detachable braces 20 connect the legs 2 with the under side of beam 1 at points spaced from the ends of said beam and these braces are connected with the legs near the lower ends of the sections 8 thereof and are united thereto by means of bolts passing through the ends of the braces and provided with wing nuts 21 so that when it is desired to collapse the trestle these braces may be detached at one end or entirely removed if found desirable.

As shown, the leg sections 8 are hingedly connected at their upper ends with the beam 1 at an oblique angle by means of bearings 22 in Fig. 1 to provide for the forward extension of the legs toward either end of the beam.

From the above description, the operation of the device will be readily understood and it is thought that no further detailed de-

scription is necessary, it being obvious that when it is desired to vary the height of the trestle, all that is necessary is to depress the free ends of the arms 14 of the catch members 12 thereby releasing their short arms 13 from engagement with the apertures 10 and 11, then draw out or move inwardly the sections 9 to the desired position, and release catches 12 which will permit the arms 13 thereof to snap inwardly into locking engagement with the apertures in the sections and securely lock them in adjusted relation. It is of course understood that the braces 20 are first placed in operative position and the cross braces between the legs moved upwardly into the position shown in Fig. 2.

From the foregoing description, taken in connection with the accompanying drawings, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains and while I have described the principle of operation of the invention together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative and that such changes may be made as are within the scope of the claimed invention.

I claim:—

A trestle comprising a beam having on each side near its ends a bearing inclined downwardly and inwardly, a leg journaled in each bearing and inclined outwardly both laterally and longitudinally relatively to said beam, folding links connecting the legs of each pair, which are disposed at the ends of the beam, a removable brace rigidly connecting each leg with the lower face of said beam, said legs being composed of adjustably connected sections to vary their length.

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

ALVIN L. TIDYMAN.

Witnesses:

W. H. ANDERSEN,

ROY KEENAN.