(No Model.)

E. J. HOOPER.

TRESTLE.

No. 341,847. Patented May 11, 1886.

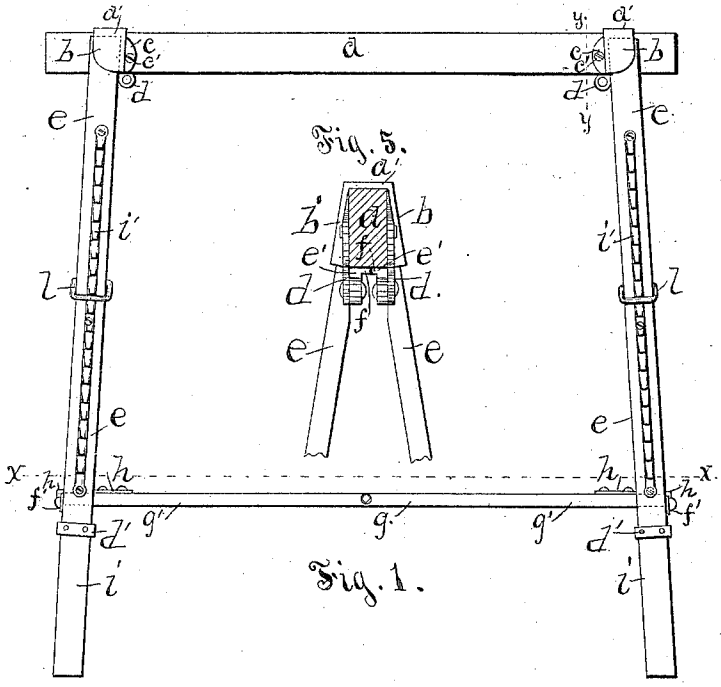


Fig. 1.

Fig. 5.

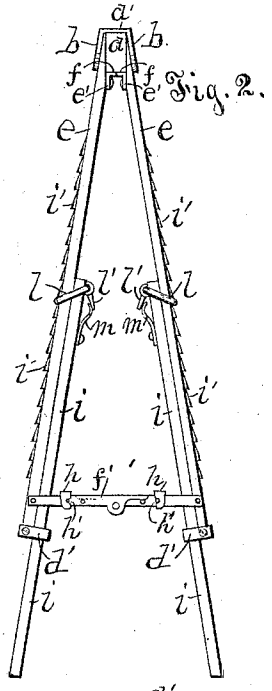


Fig. 2.

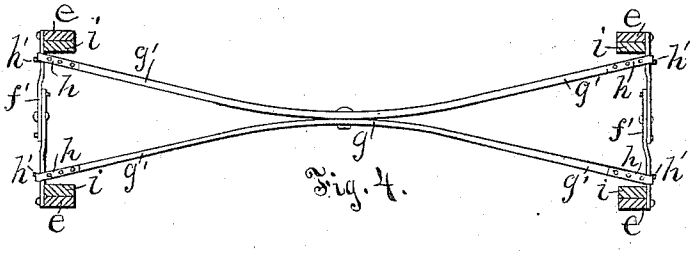


Fig. 4.

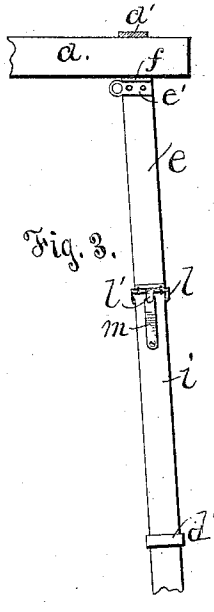


Fig. 3.

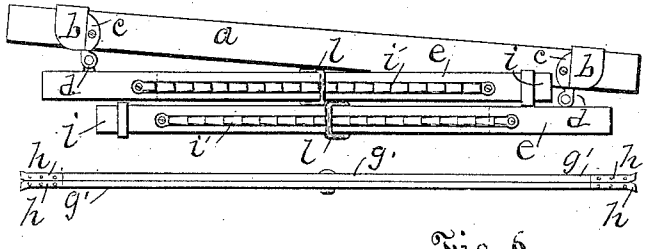


Fig. 6.

Attest:-

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UNITED STATES PATENT OFFICE.

E. JAMES HOOPER, OF SOUTH BAY CITY, MICHIGAN, ASSIGNOR OF ONE-HALF TO BURTON H. BATEMAN, OF SAME PLACE.

TRESTLE.

SPECIFICATION forming part of Letters Patent No. 341,847, dated May 11, 1886.

Application filed March 4, 1886. Serial No. 193,915. (No model.)

To all whom it may concern:

Be it known that I, E. JAMES HOOPER, a resident of South Bay City, in the county of Bay and State of Michigan, have invented certain new and useful Improvements in Trestles, of which the following is a specification.

My improvement consists in the combination, arrangement, and construction of the several parts, as I hereinafter fully describe and claim.

The object of this invention is to construct a device which will be more easily operated and that can be quickly adjusted to different heights, and that can be folded into a compact form for shipping and packing and for removing from one room to another. I attain these objects by the device illustrated in the accompanying drawings, in which—

Figure 1 is a side view of my improved trestle with the legs partly extended. Fig. 2 is an end view of the same. Fig. 3 is an inside view of one of the legs detached. Fig. 4 is a section at *x x*, showing the stretcher. Fig. 5 is a section at *y y*. Fig. 6 is a view of the device closed up.

a represents the beam of the trestle, and *b* are sockets which are connected together at their upper ends by the part *a'*. The inner sides, *b'*, of these sockets are closed, and have a projecting ear, *c*, by which they are secured to the beam by a bolt, *c'*, while the lug *d* or lower portion of the ears *c* projects below the beam.

e are the principal legs, having their upper ends arranged to fit into the sockets *b*, and to their inner sides, and just beneath the beam, are secured the pieces *e'*, which also extend beyond the edge of the leg, and are pivoted to the lugs *d*. These pieces *e'* have also a portion, *f*, projecting inwardly and forming a shoulder, which serves to support the beam.

Riveted by each end to the outside edges of the bottom portion of the legs *e* are the jointed braces *f'*, which serve to hold the legs firmly in position sidewise, and a stretcher, *g*, formed of the braces *g'*, firmly held together at their middle portion by a bolt or rivet, is placed between the braces *f'*, the ends of the braces *g'* being provided with the holding-irons *h*, which are secured to the upper edge of the stretcher and extend over the outside of the braces *f'*, and are caught over a pin, *h'*, projecting from the braces near their outer ends, and this serves to hold the braces *g'* spread apart at their ends, and forms a solid and strong brace for the lower ends of the legs *e*.

i are supplemental legs, placed inside of the legs *e*, and are adjustably secured thereto by the clasps *d'*, which pass around the lower ends of and are rigidly secured to the legs *e*, and also pass around the legs *i*. The upper portion of the legs *i* is secured to the legs *e* by the links *l*. These links are hinged to the inner side of the upper ends of the legs *i*, and, passing loosely around the legs *e*, are arranged to catch into the teeth of the ratchets *i'*, which are secured to the outer faces of the legs *e*, and projecting downward from the inner side of the links are the levers *l'*, and between the levers and legs *i* are placed the springs *m*. These springs *m* are secured to the leg and operate to bear outward upon the levers *l'* and hold the link into engagement with the teeth of the ratchet *i'*, so that when the trestle is lifted the legs *i* will be held in position to the legs *e* and still allow the legs *i* to be moved downward easily, the links *l* sliding easily over the teeth when the legs *i* are pushed downward by the hand when one end of the trestle is raised from the floor—the only operation necessary to elevate the trestle to a higher point.

In order to lower the beam, the links *l* are raised from engagement with the notches *i'*, and the legs *i* may be then moved upward to the desired position, each leg being operated separately.

To fold the trestle, the legs *i* are raised up and the stretcher *g* is disconnected from the braces *f'*. The legs are then folded inwardly, the upper ends thereof passing out of the sockets *b*. The jointed braces *f'* are then folded, and the parts are then folded in the position shown in Fig. 5.

I am aware that a notched standard with a riveted link for holding scaffolding is not new, and I do not claim the same, broadly.

What I claim as my invention is—

1. In a trestle, the combination of the principal legs *e*, provided with the clasps *d'*, rigidly secured to their lower ends, and with the ratch-

ets i', secured to their outside faces, the supplemental legs i, passed through the clasps d', and the links l, surrounding the legs and hinged to the upper end of the legs i, with the levers l', projecting from the hinged portion of the links, and the springs m, secured to the legs i and bearing outward upon the levers l', substantially as and for the purpose herein set forth.

2. In a trestle, the combination, with the beam and legs, of the sockets b, having an open side and a closed side, b', the part a', connecting the sockets above the beam, the ears c, securing the sockets to the beam and provided with the downward-projecting lugs d, and the supports e', secured to the under side of the legs e and pivoted to the lugs d, and provided with the projecting shoulder f beneath the beam, substantially as herein set forth.

3. In a trestle, the combination, with the beam, the legs e, adjustably secured to the beam, and the jointed braces f', placed across the trestle and pivoted to the lower portion of the legs, of a stretcher, g, having the braced ends g', reaching to the outer parts of the braces f', and provided with the irons h', which reach over and engage with the lugs or pins h, projecting from the braces, substantially as herein specified, and for the purpose set forth.

In witness whereof I hereunto affix my signature.

E. JAMES HOOPER.

Witnesses:
BURTON H. BATEMAN,
J. E. THOMAS.