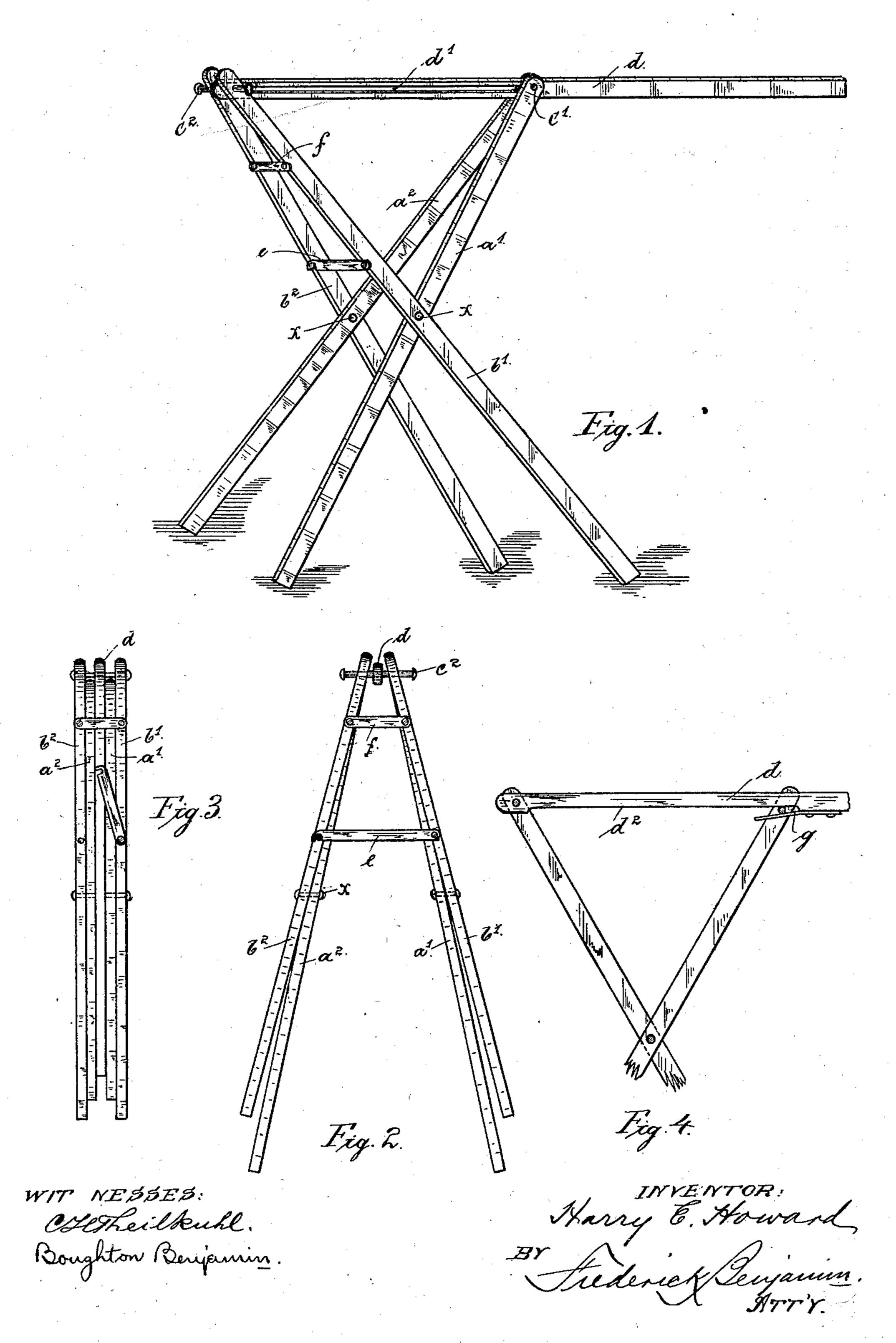
## H. E. HOWARD. FOLDABLE TRESTLE.

(Application filed Jan. 24, 1902.)

(No Model.)



## United States Patent Office.

HARRY E. HOWARD, OF CHICAGO, ILLINOIS.

## FOLDABLE TRESTLE.

SPECIFICATION forming part of Letters Patent No. 702,431, dated June 17, 1902.

Application filed January 24, 1902. Serial No. 91,009. (No model.)

To all whom it may concern:

Be it known that I, HARRY E. HOWARD, 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 Foldable Trestles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in that class of folding trestles that is especially adapted for use by paper-hangers as supports for their paste-boards, widening-boards, square-edges,&c., though it is also susceptible of use as a trestle for other purposes when made larger and stronger.

The especial objects sought by my improvements are economy of construction, strength and rigidity, and compactness when folded. It is customary for paper-hangers to carry their trestles and paste-boards in their hands when going to and from work. Hence it is essential that the former should be made as light as possible, readily foldable into small space for convenience in carrying, and yet strong and rigid when in use; hence the importance of the objects sought by my improvements.

Referring to the drawings which form a part of this application, and in which I have illustrated my invention—

Figure 1 is a perspective view of the preferred form of my improved trestle. Fig. 2
35 is an end view of the same looking from the left-hand side of Fig. 1. Fig. 3 is a view in elevation, showing the trestle folded; and Fig. 4 is a detail showing a modified form of the horizontal top bar which forms a part of the 40 trestle.

As indicated in the drawings, a'  $a^2$  represent the two outside legs, and b'  $b^2$  the two inside legs, which serve as the supports for the horizontal top bar a'. The legs a'  $a^2$  are of the legs a' b' are length and somewhat longer than the legs a' b' are pivoted together, and the legs a' b' are pivoted together, and the legs a' b' are pivoted together, and the legs a' b' are in the upper ends of the legs a' a' are connected by a bolt a', which passes through the elongated slot a', formed when in use paper, &c.

in the bar d and extending therethrough for a little more than one-half of its length. The bolt c' is only of sufficient length to permit the 55 ends of the legs a'  $a^2$  to slide along the sides of the bar d when the trestle is folded or extended.

The upper ends of the legs b'  $b^2$  are connected by a bolt  $c^2$ , which passes through a bolt- 60 hole in the end of the bar d, which is positioned between the ends of the legs b'  $b^2$ . The bolt  $c^2$  is somewhat longer than the thickness of the legs and bar, thus permitting the former to spread apart to admit therebetween the legs 65 a'  $a^2$  when the trestle is folded, as shown in Fig. 3. The legs b'  $b^2$  move freely on the bolt  $c^2$ , so that when the lower part of said legs is spread their upper ends may come together or bear on the adjacent end of the top bar d.

In order to secure the necessary rigidity, I secure a strap f to the outer edges of the legs b'  $b^2$ , near their upper ends, thus positively limiting the spread of the legs at this point and acting as a counterbrace for the spreader 75 e, which is pivoted to the edge of the leg a'and when in use has its hooked end engaging a screw or pin in the corresponding edge of the leg  $b^2$ . This spreader not only serves to space apart the legs b'  $b^2$ , to which it is di- 80 rectly attached, but also to spread the legs a'  $a^2$ , thus causing the upper ends of the latter to bind against the sides of the top bar, which they embrace, with sufficient force to lock the legs at any point along the slotted 85 portion of the top bar. This feature or function of my invention permits the adjustment of the trestle as to height, as it is manifest that the nearer the upper ends of the legs a'a<sup>2</sup> are brought to the upper ends of the legs 90 b'  $b^2$  the higher the top bar d will be raised above the floor.

When the trestle is not in use, the spreader e is disengaged from the leg  $b^2$ , the legs a'  $a^2$  are folded together between the legs b'  $b^2$ , 95 which brings down between the former legs the bar d, whereupon all the legs and said bar are in the same plane, as shown in Fig. 3. It will be noted that the engagement between the upper ends of the legs a'  $a^2$  and the top 100 bar d is positive, though sliding, so that there is no possibility of the bar being knocked up when in use, thus upsetting the paste-board, paper, &c.

In the modification shown in Fig. 4 instead of slotting the top bar I cut a shallow groove in its under edge, as  $d^2$ , and over the outer end of this groove I secure by screwing to the 5 under side of the bar a metal plate g, which serves to catch and hold the bolt c' when the trestle-legs are expanded or unfolded. While this form makes a stronger construction for the top bar, it is not adjustable, as with the 10 preferred form, (shown in Figs. 1 to 3,) for the reason that the top bar is not positively locked to the legs a'  $a^2$  until the bolt c' is engaged by the metal plate g.

Having thus described my invention, what 15 I claim as new, and desire to secure by Letters

Patent, is—

1. A trestle composed of four legs pivoted together in pairs, one pair adapted to fold between the other pair, the oppositely-placed 20 legs of each pair connected at their upper ends by bolts, the bolt connecting the outer pair being longer than the thickness of said legs whereby they may freely move longitudinally on said bolt when the legs are folded

and unfolded, a rigid strap connecting the 25 outer pair of legs above their pivotal point, a top bar pivoted on the bolt connecting the upper ends of the outer legs and slidably mounted on the bolt connecting the upper ends of the inner legs, and a spreader for the outer 30 legs, all substantially as set forth.

2. In a trestle of the character described having two pairs of legs pivoted together, a top bar pivoted between one pair of legs, and an outwardly and downwardly extending 35 catch secured to the under side of the top bar near its free end, said catch adapted to positively engage the bolt connecting the ends of the other pair of legs and to hold the top bar against upward movement, substantially as 40 set forth.

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

HARRY E. HOWARD.

Witnesses:

R. G. ROBERTS, F. BENJAMIN.