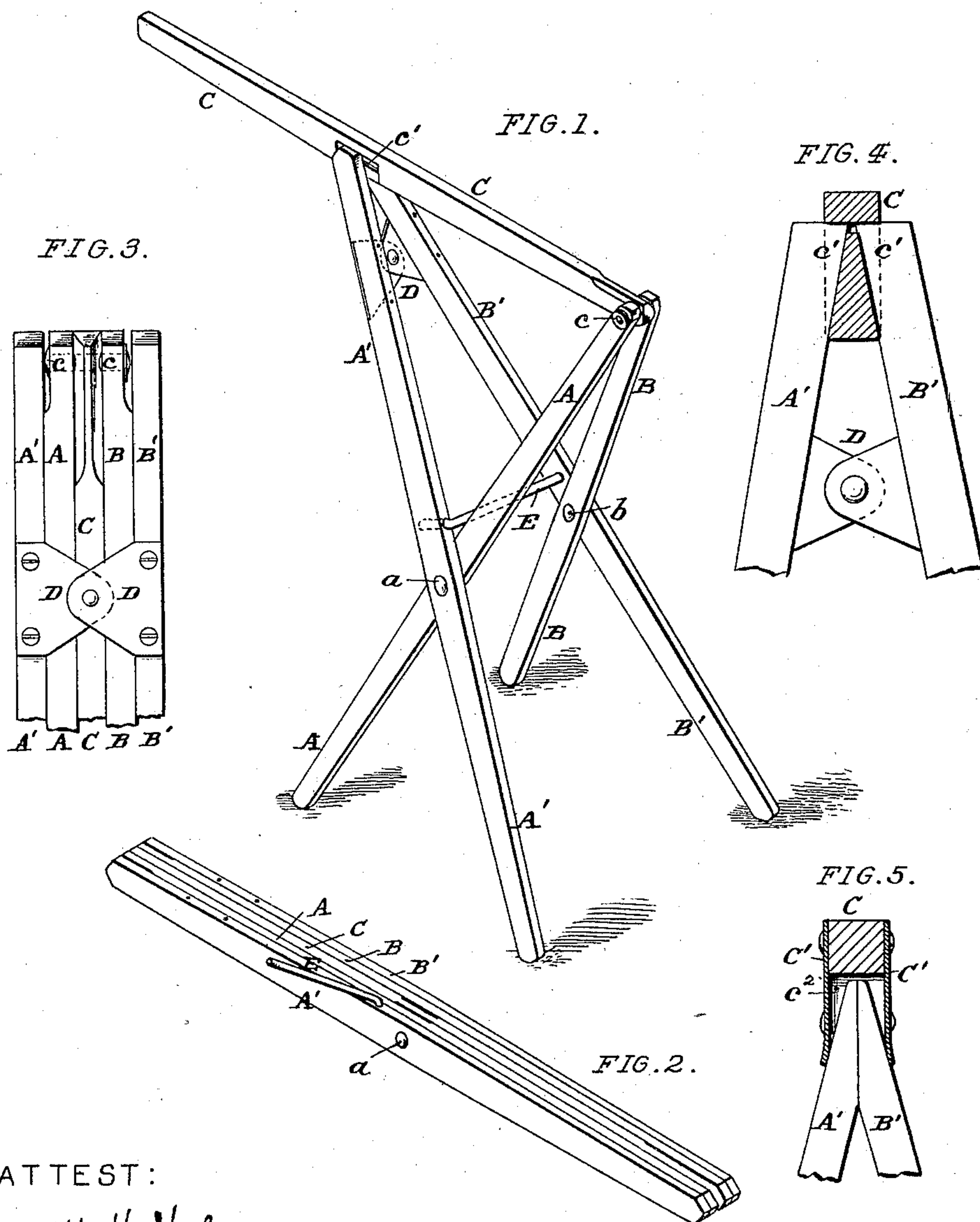


(No Model.)

J. T. MILLER.
FOLDING TRESTLE.

No. 401,848.

Patented Apr. 23, 1889.



ATTEST:

M. H. Holmes.....

Geo H Arthur.....

INVENTOR:

John T. Miller

by

Robert Curran.....

ATTORNEY.

UNITED STATES PATENT OFFICE.

JOHN T. MILLER, OF CHICAGO, ILLINOIS.

FOLDING TRESTLE.

SPECIFICATION forming part of Letters Patent No 401,848, dated April 23, 1889.

Application filed May 19, 1888. Serial No. 274,408. (No model.)

To all whom it may concern:

Be it known that I, JOHN T. MILLER, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Folding Trestles; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to certain improvements in the type of folding trestles that forms the subject-matter of Letters Patent No. 343,829, issued to me June 15, 1886, for improvement in trestles; and the present improvements have for their object to provide a simple, cheap, and durable trestle construction embodying the features of cheapness and durability in construction, ease in folding and unfolding the trestle, and permanent pivotal connection of the trestle parts together. I attain such object by the construction and arrangement of parts illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view illustrating the trestle in its unfolded condition ready for use; Fig. 2, a similar view of the trestle in its folded condition; Fig. 3, a detail side view of the upper end of the trestle in the folded condition; Fig. 4, a detail section illustrating the connection of the legs or standards to the free end of the horizontal top bar of the trestle, and Fig. 5 a similar view of a modified form of the same.

Similar letters of reference indicate like parts in the several views.

As represented in the drawings, my improved trestle consists of four legs or standards, A A' B B', pivoted together in pairs at or near their mid-length by means of screws *a b* or other equivalent means.

C is the horizontal top bar of the trestle, pivoted at one end between the upper ends of the legs A B by a suitable pivot-bolt, *c*, so as to have pivotal movement between the same, its free end being engaged, when the trestle is unfolded, by the upper ends of the legs A' B', which engage in beveled recesses *c'* in the sides of such bar, as shown in Fig. 4, to effect a firm and substantial connection, such legs A' B' being pivoted together by pivot plates or hinges D at a point immediately below the

bar C, as clearly indicated in Figs. 1, 3, and 4.

As shown in the drawings, the corresponding legs A B of each pair of legs, between which the horizontal bar C is pivotally attached, are arranged adjacent to each other and between the legs A' B', that engage the free end of the horizontal bar C. With this construction the four legs can be made of equal lengths to avoid all after fitting and cutting, which was a serious defect in the construction shown in my former patent, in which the legs were required to have different lengths in order to attain a perfect rest or footing.

As a modification of the mode of attachment of the free ends of the horizontal top bar, C, to the upper ends of the legs A' B', as illustrated in Figs. 1 and 4, an open-bottomed recess, *c''*, may be formed in the bar C, preferably by metal side plates, C', to receive and confine the upper ends of the legs A' B', as shown in Fig. 5.

E is a strut or brace pivoted to one of the legs, and adapted to engage against the inner side of the opposite leg to hold the trestle parts in their extended condition. This strut may be located at any other suitable position from that shown without departing from the spirit of my invention, and in some cases entirely omitted or replaced by the hinged brace shown in my former patent, No. 343,829.

The top bar, C, is shown in the drawings of a length greater than the space between the upper ends of the legs or standards. The purpose of such construction is to form a convenient rest for a paper-hanger's straight-edge, widening-board, &c., when the trestles are to be used for such work; otherwise the bar need not have such extra length, and the parts can be increased or diminished in size and proportions as the particular uses to which the trestle is to be applied or the judgment of the maker may suggest without departing from the spirit of my invention.

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

1. A trestle consisting in the combination of a horizontal top bar, C, and four legs or standards, A A' B B', pivoted together in pairs at or near their mid-length by pivots *a b*, the legs A' B' being pivoted together at or

near their upper ends by pivot D, the axis of which is at right angles to the axis of the pivots *a b*, and the corresponding legs A B being arranged adjacent to each other and
5 between the corresponding legs A' B', the parts being adapted to fold together into a compact form, in the manner and for the purpose set forth.

2. A trestle consisting of four legs or standards, A A' B B', pivoted together in pairs at
10 or near their mid-length by pivots *a b*, the legs A' B' being pivoted together at or near their upper ends by pivot D, the axis of which is at right angles to the axis of the pivots *a b*,
15 in combination with the horizontal top bar, C, pivotally secured between the upper ends of the legs or standards, whereby the trestle parts are permanently connected together and adapted to fold into a compact form, substan-
20 tially as herein described, and for the purpose set forth.

3. The combination of the legs or standards A A' B B', pivoted together in pairs and connected together by hinge D, with the corre-

sponding legs A B arranged adjacent to each
other and between the corresponding legs A' B', top bar, C, having a recess, essentially as described, for receiving the upper ends of the
legs A' B', and pivot-bolt *c*, substantially as
described, and for the purpose set forth. 30

4. The combination of the legs or standards A A' B B', pivoted together in pairs and connected together by hinge D, with the corresponding legs A B arranged adjacent to each
other and between the corresponding legs A' B', top bar, C, having a recess, essentially as
described, for receiving the upper ends of the
legs A' B', pivot-bolt *c*, connecting the end
of bar C with the tops of the legs A B, and
strut or brace E, substantially as described, 40
and for the purpose set forth.

In testimony whereof witness my hand this
30th day of April, 1888.

JOHN T. MILLER.

In presence of—

ROBERT BURNS,

WM. H. F. WALKER.