

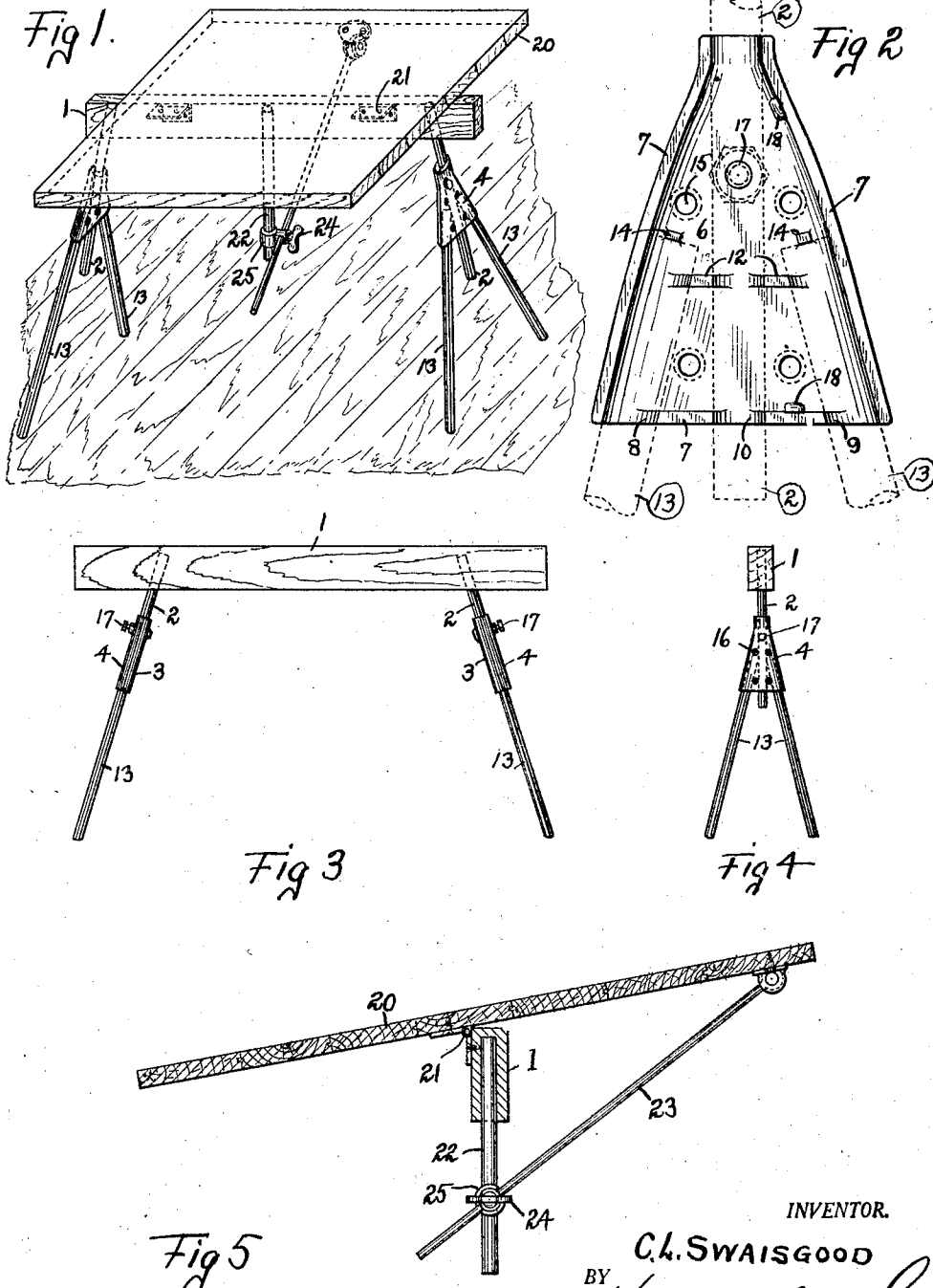
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DRAWING BOARD AND TRESTLE THEREFOR

Filed April 6, 1922



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DRAWING BOARD AND TRESTLE THEREFOR.

Application filed April 6, 1922. Serial No. 550,046.

To all whom it may concern:

Be it known that I, CLARENCE L. SWAISGOOD, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Drawing Boards and Trestles Therefor, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

This invention relates to the class of supports and especially to devices of this nature which are used for trestles, tables, and portable scaffolds as employed by carpenters, paper-hangers, plasterers, decorators, draftsmen, etc. The objects of the invention are the provision of a cheap and simple device of this character which can be set up on an uneven and irregular floor and yet remain perfectly solid; the provision of a particularly cheap and simple fitting for constructing a device of this character with a minimum of time or expense; the provision of a new and improved construction of drafting board or adjustable table; while further objects and advantages of my invention will become apparent as the description proceeds.

In the drawings accompanying and forming a part of this application Fig. 1 is a perspective view of a drafting table embodying my improvements; Fig. 2 is a plan view of one member of one of the leg fittings; Fig. 3 is a front elevation and Fig. 4 an end elevation of a simple trestle embodying my improvements; and Fig. 5 is a central sectional view through the middle of a drafting table shown in Fig. 1.

Describing the parts by reference characters, 1 represents the top member of a horse or trestle consisting preferably of a piece of ordinary scantling having slanting holes bored into one edge adjacent its ends into which are tightly driven the studs 2—2. 3 and 4 represent the mating members of the leg clamps, one of which members is shown in Fig. 2. It consists of a triangular, hollow, metal, casting having a substantially flat side portion 6 terminating in a marginal flange 7, this flange being interrupted on one side to produce three notches 8, 9, and 10, and the point of the member which is opposite the notched flange being formed for the reception of one of the studs 2 which also extends through the central notch of the flange opposite thereto as shown in Fig. 2. The interior of the member is formed with

suitable projections 12 co-operating with the notches 8 and 9 to define seats or channels for the diverging legs 13—13 and with studs 14 for limiting the inward movement of said legs. The sides 6 are formed with registering apertures 15 for the reception of suitable bolts 16 whereby the members are clamped together upon the legs, and one member of each pair is provided with a set screw 17 for fixing the position of the stud 2 therein. Each of the members is also preferably provided with suitable tongues 18 adapted to engage the other member to hold the parts in register.

These members are preferably made exactly similar and can be cast complete ready for use excepting for the tapping of the set screw hole, and even this can be accomplished by casting a nut in place. A horse or trestle made in this way is much cheaper than one made all of wood and can be put together in a very few minutes. Besides it can always be set firm and even irregularities of the supporting surface can be compensated by rotating the fittings about the respective studs so as to bring all the legs into bearing, this being permitted by the angularity of the studs. The adjustability of these leg-fittings relatively to the studs also enables successive trestles to be brought into the same plane which is desirable in case the same are to be used to support a table or platform.

In addition I have shown a single trestle as arranged to support a drawing board 20 which is hinged thereto at 21. Depending from the scantling 1 substantially at its middle point is a third stud 22 and pivoted to the bottom of the board adjacent one edge is a rod 23 adjustably clamped to the stud 22 by means of a thumb-screw 24 and slidable fitting 25. This produces a drawing board of maximum simplicity and convenience. When not in use it can be folded into a substantially flat form in which it takes up a minimum of room; and the adjustability of the legs enables it to be set firmly upon any uneven surface.

It will be understood that I do not restrict myself to the details herein shown except as the same are specifically recited in my claims.

Having thus described my invention what I claim is:

1. In a device of the character described in combination, a horizontal member, a pair

of rigid studs projecting downwardly therefrom at diverging angles, one near each end thereof, a fitting adjustably clamped to each of the studs, each fitting having therein a pair of diverging cylindrical sockets located one on each side of the stud, and legs rigidly secured in said sockets, said fittings being longitudinally and angularly adjustable relatively to their respective studs.

2. As an article of manufacture and sale, a fitting for the purpose described, comprising a member having a channel therein adapted for the reception of a stud and a pair of flaring channels located one at each side of the first channel and having their axes diverging therefrom, said last channels adapted for the reception of legs, means for limiting the insertion of said legs into said fitting, and means for clamping said fitting tightly to said legs and stud.

3. In a drawing table, in combination, an elongated member, three spaced rigid studs projecting from one side thereof at spaced intervals, the endmost studs being located near the ends of said member and flaring outwardly and the third stud being intermediate the two, a pair of flaring legs clamped to each of the terminal studs and adjustable relatively thereto both angularly and longitudinally, a drawing board hinged to the side of said member which is opposite said studs, an adjusting rod pivoted to said drawing-board at a point removed from its hinges and passing close beside the third stud, and an adjustable clamp securing said last stud and rod together.

4. In a device of the character described,

a body, a first pair of legs, a second pair of legs, and means whereby said body is supported by said pairs of legs in a manner to permit rotation of each pair of legs independently of the other pair of legs and about an axis disposed at an angle to the vertical.

5. In a device of the character described, a body, a first pair of legs, a second pair of legs, and means whereby said body is supported by said pairs of legs in a manner to permit rotation of each pair of legs independently of the other pair of legs and about an axis disposed in the plane of that pair of legs and at an angle to the vertical.

6. In a device of the character described, a body, a first pair of legs, a second pair of legs, and means whereby said body is supported by said pairs of legs in a manner to permit rotation of each pair of legs independently of the other pair of legs and about an axis so disposed that the two axes of the two pairs of legs lie in a single plane and converge.

7. In a device of the character described, a body, a first pair of legs, a second pair of legs, and means whereby said body is supported by said pairs of legs in a manner to permit bodily movement of one pair of legs toward and from said body and independent of said other pair of legs and to also permit rotation of each pair of legs independently of the other pair of legs and about an axis disposed at an angle to the vertical.

In testimony whereof, I hereunto affix my signature.

CLARENCE L. SWAISGOOD.