

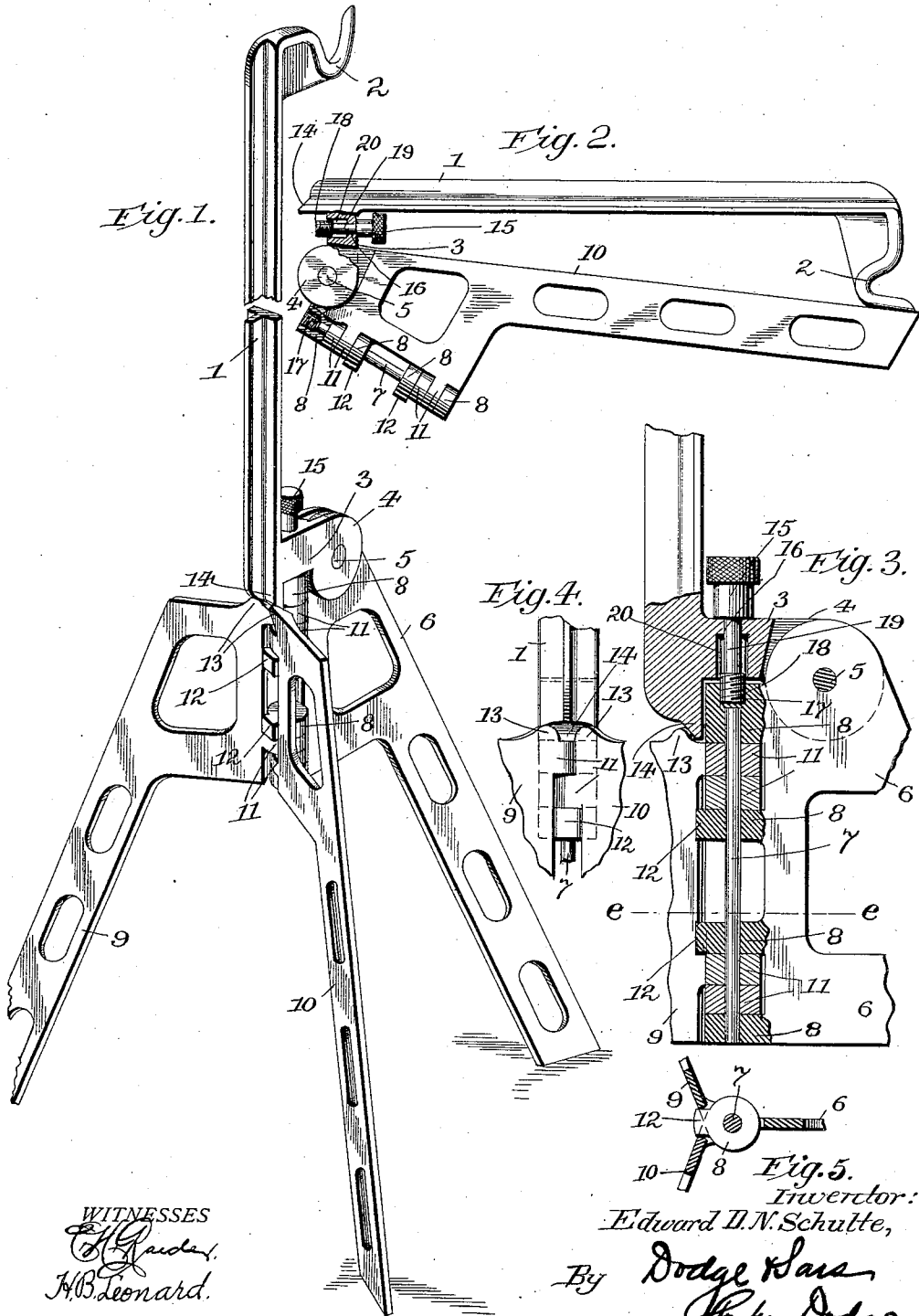
E. D. N. SCHULTE.

SUPPORT.

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1,060,861.

Patented May 6, 1913.



WITNESSES
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UNITED STATES PATENT OFFICE.

EDWARD D. N. SCHULTE, OF TROY, NEW YORK, ASSIGNOR TO W. & L. E. GURLEY, A CORPORATION OF NEW YORK.

SUPPORT.

1,060,861.

Specification of Letters Patent.

Patented May 6, 1913.

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To all whom it may concern:

Be it known that I, EDWARD D. N. SCHULTE, a citizen of the United States, residing at Troy, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Supports, of which the following is a specification.

This invention relates to supports or stands, and is adapted to a wide range of uses, but I illustrate it in the present case as embodied in a support for the use of inspectors of weights and measures, the stand being provided with a hook, from which balances, spring balances and the like may be suspended. For this class of work a rigid yet light, compact and readily portable device is required, and these desirable qualities are embodied in the structure illustrated in the drawings, wherein:—

Figure 1 is a perspective view of the support as it appears when set up; Fig. 2 represents the support folded, certain parts being broken away to show the clamp screw; Fig. 3 is a detail elevation of the locking mechanism partly sectioned to show the hinge and clamp screw; Fig. 4 is a side elevation of the same; and Fig. 5 is a section on the line *e—e* of Fig. 3.

1 represents the upright or standard of the support, which in a stand arranged for the purpose above described, terminates at its upper end in a hook 2. The lower extremity of the standard 1 has a lateral projection 3 extending preferably in the same direction as the hook 2 and terminating in a bifurcated hinge portion 4 provided with a hinge pin 5. The hinge pin 5 engages the upper end of a leg member 6 which in turn is hinged by means of the hinge pin 7 and the lugs 8 to two similar leg members 9 and 10 having lugs 11. The center lines of the leg members 6, 9 and 10 are at equal acute angles with the center line of the hinge pin 7, and it results that these leg members may be folded flat upon each other or extended to form a tripod, the stops 12 formed on the lugs 8 of the leg 6 serving to limit the movement of legs 9 and 10 away from leg 6, as clearly illustrated in Fig. 1.

It is apparent from the above that the legs and the standard may be folded upon each other as in Fig. 2 or extended as in Fig. 1. The parts are so proportioned that the projection 3 extends over the top of

hinge pin 7 and the standard 1 extends upward from a point near the center of the tripod formed by the leg portions.

The leg portions 9 and 10 are each provided with a beveled ear 13 and when these leg portions are bearing against the lugs 12, the beveled faces of these ears are engaged by a similarly beveled lug 14 formed on the lower extremity of the standard 1, when the standard is raised or in its vertical position. In this manner any tendency to force the lug 14 downward will hold the legs 9 and 10 extended, pressing them firmly against the stops 12. Thus the leg portions may be rigidly held in place by clamping the standard 1 to the lug 8 of the leg portion 6 and such clamping is preferably effected by a thumb screw 15 passing through a hole 16 in the portion 3 and engaging a threaded hole 17 in the upper lug 8. The threaded portion 18 of the screw is larger than its shank 19 and the hole 16 so as to retain the screw in the hole. A counter bore 20 permits the complete withdrawal of the screw from the hole 17.

The stand above described is rigid when set up, folds compactly and has no detached parts to become lost. It can be made from simple castings with very little machining, and due to the wedging engagement of the parts, does not tend to become less rigid through wear.

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

1. In a folding support the combination of a plurality of leg members; a hinge connecting said leg members, the axis of said hinge making approximately equal angles with the center lines of said leg members; a standard hinged to one leg member; a lug carried by the standard and adapted to enter into wedging engagement with the leg members to hold the latter extended when the standard is extended; and a screw engaging the standard and one of said leg members to clamp said standard in extended position.

2. The combination of a leg member; a pair of similar leg members hinged thereto, the axis of such hinging making approximately equal angles with the several leg members; a leg clamp movably mounted on the first leg member and having a beveled lug adapted to enter into wedging engagement with the other leg members to hold

them in extended position; and a screw for forcing said clamp against said leg members.

3. In a support the combination of a pair of leg members having beveled ear portions; 5 a third leg member having a limit stop to limit the movement of said first two leg members with reference to said third leg member; a hinge pin engaging said three leg members and making approximately equal 10 angles with the center lines thereof; a standard hinged to said third leg member and having a beveled lug to engage said beveled ears to urge their respective leg members against said limit stop; and means for 15 clamping the standard and its lug to the third leg member.

4. In a support the combination of a

plurality of leg members; a hinge connecting said leg portions, the axis of said hinge making equal angles with said leg members; 20 a standard hinged to one leg member; means carried by said standard to engage the leg members and hold the latter extended when the standard is extended; and clamping 25 means for locking the standard in extended position.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDWARD D. N. SCHULTE.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."