

No. 693,673.

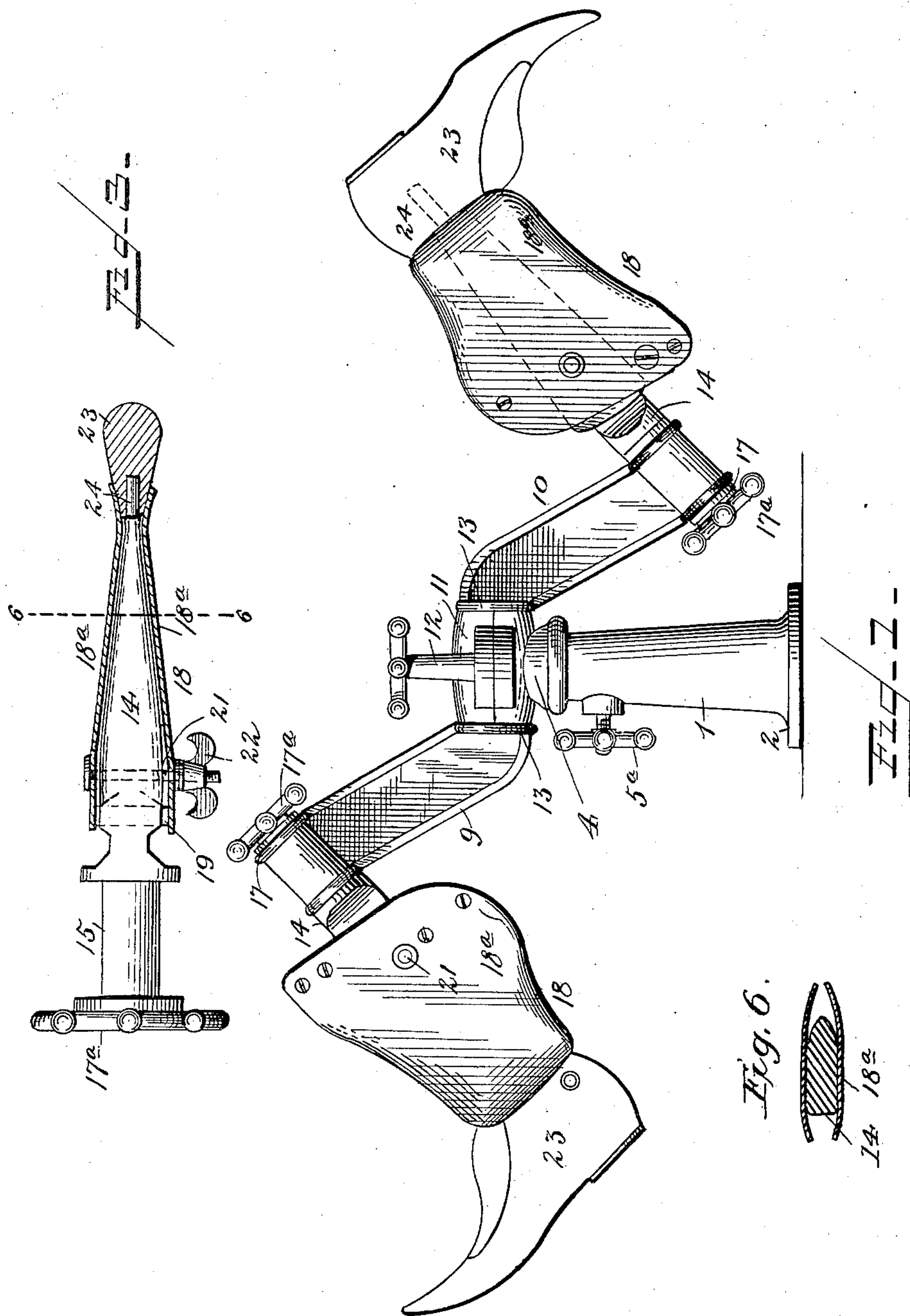
Patented Feb. 18, 1902.

J. T. SUMMERS.
WORK SUPPORT.

(Application filed Nov. 26, 1901.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses:
Frank L. Ourand.
G. G. Radelfinger.

Inventor:
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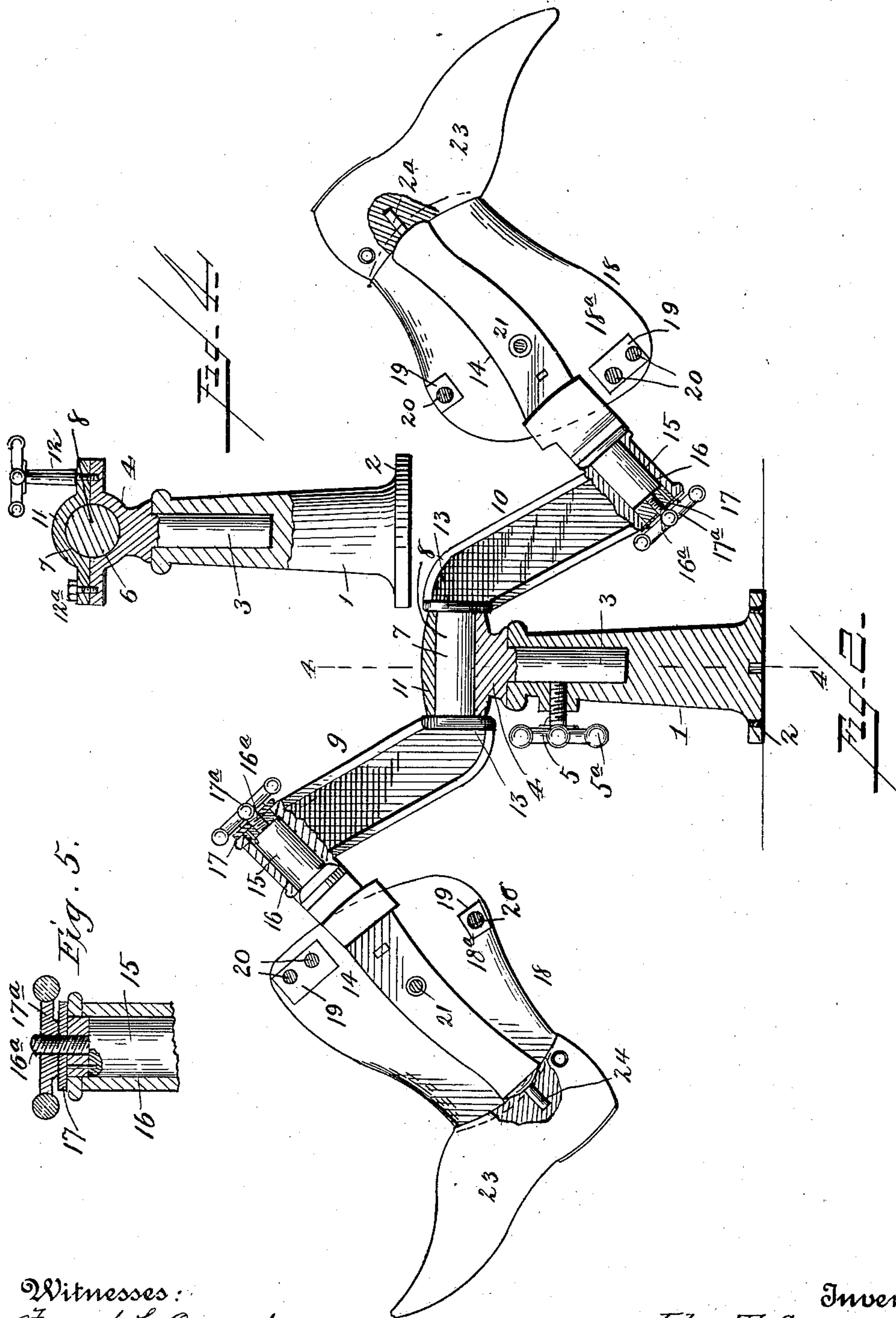
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UNITED STATES PATENT OFFICE.

JOHN T. SUMMERS, OF LAURELHILL, NEW YORK, ASSIGNOR OF ONE-HALF
TO GEORGE C. MEAKIM, OF LAURELHILL, NEW YORK.

WORK-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 693,673, dated February 18, 1902.

Application filed November 26, 1901. Serial No. 83,779. (No model.)

To all whom it may concern:

Be it known that I, JOHN T. SUMMERS, a citizen of the United States, residing at Laurelhill, in the county of Queens and State of New York, have invented new and useful Improvements in Work-Supports, of which the following is a specification.

My invention relates to work-supports; and the object of the same is to construct a support which can accommodate two lasts, both of which will have the maximum degree of freedom as far as angular adjustment is concerned and at the same time be held in convenient position for working upon them.

The novel construction employed by me in carrying out my invention is fully described in this specification and claimed, and illustrated in the accompanying drawings, forming a part thereof, in which—

Figure 1 is a side elevation of my device. Fig. 2 is a vertical longitudinal section of the same. Fig. 3 is a detail section of the last-clamp. Fig. 4 is a detail section of the standard and box. Fig. 5 is a detail of the last-arm clamp. Fig. 6 is a detail transverse section of one of the last-clamps.

Like numerals of reference designate like parts in the different views of the drawings.

The numeral 1 designates a standard constructed with a foot 2, adapted to be secured to the floor. The standard 1 is longitudinally apertured to accommodate a spindle 3, having a head 4 thereon, which rests on the top of the standard. A screw 5, operated by a hand-wheel 5^a and seated in a transverse aperture in the standard, serves to clamp the spindle 3 against turning. The head 4 has a semicylindrical recess 6 formed therein, within which fits a cylindrical portion 7 of a stem 8 of a Z, having arms 9 and 10. A box 11 is mounted on the head 4 and fits over the cylindrical portion 7 and, in combination with a screw 12 and bolt 12^a, serves to clamp the stem 8, when so desired, securely against rotation. Flanges 13, formed on the stem 8, prevent all movement of translation. Extending at right angles to the arms 9 and 10 are arms 14, which are provided with spindles 15, which fit transverse apertures 16 in the arms 9 and 10. Formed on the spin-

dles 15 are threaded shanks 16^a, which, in combination with a washer 17 and a hand-wheel 17^a, serve to clamp the arms 14 against rotation.

Mounted on the outer ends of the arms 14 are last-clamps 18, each comprising two plates 18^a, separated at one end by spacing-blocks 19 and secured together by cross-pins 20 and a bolt 21, having a thumb-screw 22 fitted thereon. The plates 18^a converge to form jaws and curve transversely, so as to engage the last both front and rear to hold it from tilting and keep it rigid. Lasts 23 are mounted on pins 24, seated in the ends of the arms, and these lasts are engaged and held securely by the jaws of the clamps 18.

By the construction of my device the lasts can be rotated about their axes and can therefore assume almost any position in the space around the standard. The positions not easily assumed by one of the lasts can be readily assumed by the companion last and every position of the work thereby attained.

I do not wish to be limited as to details of construction, as these may be modified in many particulars without departing from the spirit of my invention.

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

1. In a work-support, the combination with a standard, of a Z, having parallel arms and mounted with its stem at right angles to said standard and free to rotate, means for clamping said stem against rotation, arms extending substantially at right angles to the arms of said Z, and means mounted on said arms for clamping and holding a last, substantially as described.

2. In a work-support, the combination with a longitudinally-apertured standard, a spindle revolubly mounted in said aperture, a Z mounted with its stem at right angles to said standard and free to rotate, arms extending at right angles to the arms of said Z, and free to rotate about their longitudinal axes, and means mounted on said arms for clamping a last, substantially as described.

3. In a work-support, the combination with a longitudinally-apertured standard, a spin-

dle revolubly mounted in said aperture, means for clamping said spindle, a **Z** with its stem revolubly mounted at right angles to said standard, means for clamping said stem
5 against rotation, arms extending at right angles to the arms of said **Z**, and revolubly mounted in apertures therein, means for clamping said arms against rotation, and means mounted on said arms, for clamping a
10 last, substantially as described.

4. The combination with an arm bearing a pin, of a last mounted on said pin, plates mounted on each side of said arm to form jaws which engage said last, said plates being
15 curved transversely to engage said last both front and rear to hold it from tilting, and a bolt extending transversely said plates and

fitted with a thumb-screw, substantially as described.

5. In a work-support, the combination with 20 a standard, of a **Z** having parallel arms and mounted on said standard with its stem free to rotate, arms extending substantially at right angles to the said arms of said **Z**, and means mounted on each of said last-men- 25 tioned arms to hold a last, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN T. SUMMERS.

Witnesses:

BENJ. C. VANDEWATER,
J. H. WOODHALL.