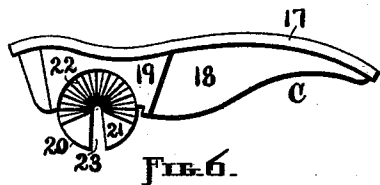
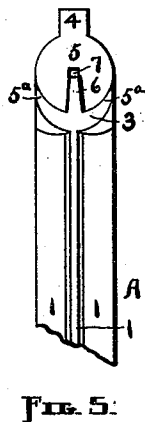
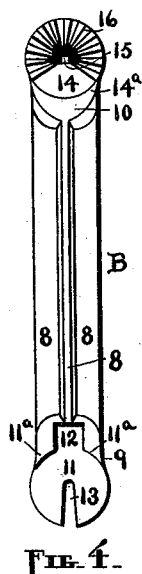
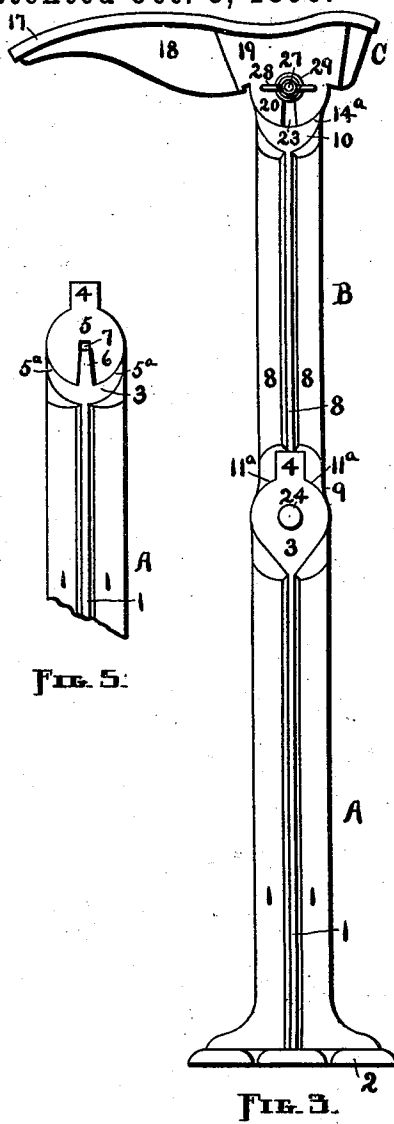
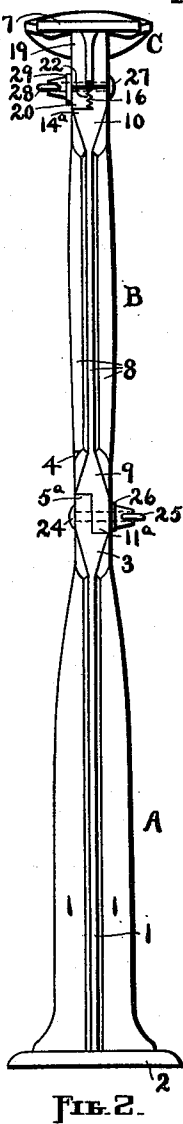
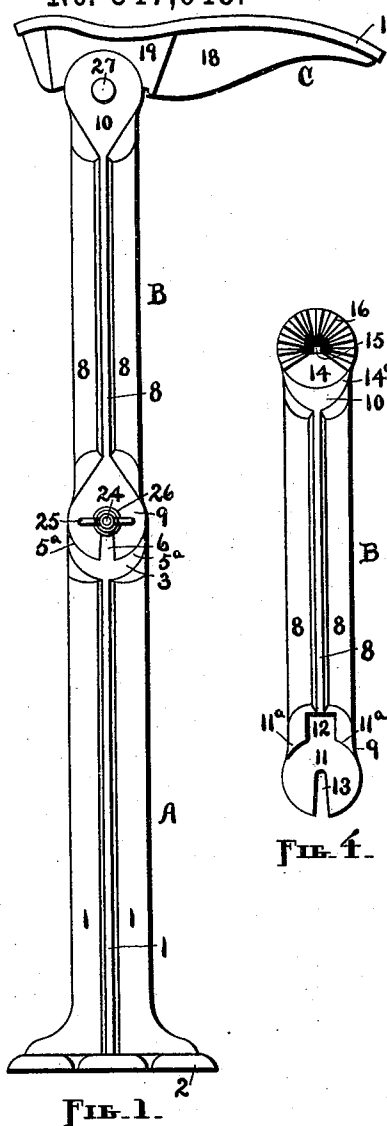


(No Model.)

F. P. OLDS.
LAST STAND AND LAST.

No. 547,648.

Patented Oct. 8, 1895.



WITNESSES:

H. T. Bailey
L. A. Stratton

INVENTOR:

F. P. Olds,
by Burrage Cutter,
attys.

UNITED STATES PATENT OFFICE.

FRED. P. OLDS, OF MEDINA, OHIO.

LAST-STANDARD AND LAST.

SPECIFICATION forming part of Letters Patent No. 547,648, dated October 8, 1895.

Application filed March 9, 1895. Serial No. 541,112. (No model.)

To all whom it may concern:

Be it known that I, FRED. P. OLDS, a citizen of the United States, residing at Medina, in the county of Medina and State of Ohio, have invented certain new and useful Improvements in Last-Standards and Lasts, of which the following is a full, clear, and exact description.

My invention relates to last-standards which are made in sections and have an adjustable rocking last at the top; and it consists in the peculiar construction of said sections and last with the means of locking the several parts together, as hereinafter more fully set forth and claimed.

The object of my improvement is to provide a standard which may be readily taken apart for shipping and as readily put together again; also, a last adapted to be quickly attached to and adjusted at any desired angle on said standard.

My standard and last are preferably made of iron cast entire and ready for use without drilling any holes therein or otherwise finishing the same after leaving the mold. Said standard and last may, however, be constructed of steel or other metal, and as highly finished as desired.

The ordinary cast-iron standard consists of one piece only, which renders it a difficult article to pack for shipping, and the last that accompanies these standards is generally provided with a socket which slips over the top of said standard, or vice versa, thereby rendering said last non-adjustable. In my invention I overcome both of the objections mentioned above.

That my invention may be seen and fully understood by others, reference will be had to the following specification and annexed drawings, forming a part thereof, in which—

Figure 1 is a side view of my standard and last; Fig. 2, an opposite side view; Fig. 3, a rear edge view; Fig. 4, a side view of the upper section of the standard; Fig. 5, a side view of the lower section, the base being broken off; and Fig. 6 a side view of the last removed.

Similar letters and figures designate like parts in the drawings and specification.

The lower section A of my standard, as shown in the drawings, consists of the four webs 1 springing from the base-plate 2, said

webs terminating at the top in the head 3. The lug 4 rises from the head 3, and said head is countersunk on one side to form the annular face 5, leaving the shoulders 5^a 5^a each side of the lug 6, which extends from the base of said face to the hole 7 through the center of said head. The hole 7 is preferably square to facilitate drawing the core from the mold in casting.

The upper section B of the standard consists of the four webs 8, terminating in the head 9 at the base and the head 10 at the top. One side of the head 9 is countersunk to form the annular face 11 and the recess 12, leaving the shoulders 11^a, said recess conforming in size and shape to the lug 4. The slot 13 extends upward from the base of the head 9 to a little above the center of the annular face 11, and is of sufficient width to admit the lug 6. The head 10 is countersunk upon the same side with the head 9 to form the annular face 14 and leave the shoulder 14^a. The hole 15, which pierces the head 10 at the center of the face 14, is preferably square like the hole 7. About two-thirds of the upper portion of the face 14 is provided with the serrations or teeth 16.

The last C consists of the sole 17, the web or instep 18, and the block 19, having the semi-circular projection 20 depending from one side. One side of the block 19 is countersunk to form, with the projection 20, the annular face 21, having on the upper two-thirds thereof the serrations or teeth 22. The slot 23 extends from the base of the projection 20 to a little above the center of the face 21.

The several parts of my device are assembled in the following manner: Place the heads 9 and 3 together, the faces 11 and 5 contiguous with the lug 4 in the recess 12 and the lug 6 in the slot 13, insert the bolt 24 through the hole 7 and the upper end of said slot 13 above the lug 6, and turn down the thumb-screw 25 on the threaded end of said bolt, the washer 26 having been first inserted between said thumb-screw and the head 9, whereby an exceedingly strong joint is formed. Now place the last block 19 on the head 10, the faces 14 and 21 contiguous, insert the bolt 27 through the hole 15 and the upper end of the slot 23 and turn down the thumb-screw 28 on the threaded end of said bolt, having first

inserted the washer 29 between said thumb-screw and the projection 20, whereby the teeth 16 and 22 are caused to engage or mesh and hold the last C firmly in place. To remove the section B from the section A simply
 5 loosen the thumb screw 25 and elevate said section B clear of said section A, the slot 13 permitting the head 9 to clear the bolt 24. To remove the last C from the section B, loosen
 10 the thumb-screw 28 and lift said last from said section, the slot 23 permitting the projection 20 to clear the bolt 27. In order to change the angle of the last C on the standard-section B it is only necessary to loosen
 15 the thumb-screw 28 sufficiently to allow the teeth 16 and 22 to pass each other, tilt or rock said last to the angle desired, and again tighten up said thumb-screw.

I do not wish to confine myself to the exact
 20 form of the sections shown and described, since they may be round, rectangular, or, indeed, of any suitable shape without departing from the nature of my invention. Any suitable nut or bolt may be employed for connecting the several parts in place of the thumb-
 25 screws and bolts shown in the drawings.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a last standard, a section having a perforated shouldered head provided with a countersunk face, a lug surmounting said head, and a lug on said face, in combination with a section having a slotted shouldered head provided with a countersunk face and recess,
 35 and a suitable nut and bolt for connecting said heads, substantially as and for the purpose set forth.

2. The combination, in a last standard, of a section having a perforated shouldered head
 40 provided with a countersunk face, a lug surmounting said head and a lug on said face; a section having a slotted shouldered head at one end, provided with a countersunk face and recess, and a perforated shouldered head

at the opposite end, provided with a serrated 45 countersunk face; a last, and suitable nuts and bolts for connecting the several parts, substantially as and for the purpose set forth.

3. In a standard and last, a section having a perforated shouldered head provided with 50 a serrated countersunk face, in combination with a last having a block and a slotted projection provided with a serrated countersunk face, and a suitable nut and bolt for connecting said block and projection to said 55 head, substantially as and for the purpose set forth.

4. In a last standard, a section having a perforated shouldered head provided with a countersunk face, a lug surmounting said head, 60 and a lug on said face, in combination with a section having a slotted shouldered head at one end, provided with a countersunk face and recess, and a perforated shouldered head at the opposite end, provided with a serrated 65 countersunk face, and a suitable nut and bolt for connecting said sections, substantially as and for the purpose set forth.

5. The combination, in a standard and last, of a section having a perforated shouldered 70 head provided with a countersunk face, a lug surmounting said head, and a lug on said face; a section having a slotted head at one end, provided with a countersunk face and recess, and a perforated shouldered head at the op- 75 posite end, provided with a serrated countersunk face; a last having a block and a slotted projection provided with a serrated countersunk face, and suitable nuts and bolts for connecting the several parts, substantially as 80 and for the purpose set forth.

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

FRED. P. OLDS.

Witnesses:

F. A. CUTTER,
 L. A. STRATTON.