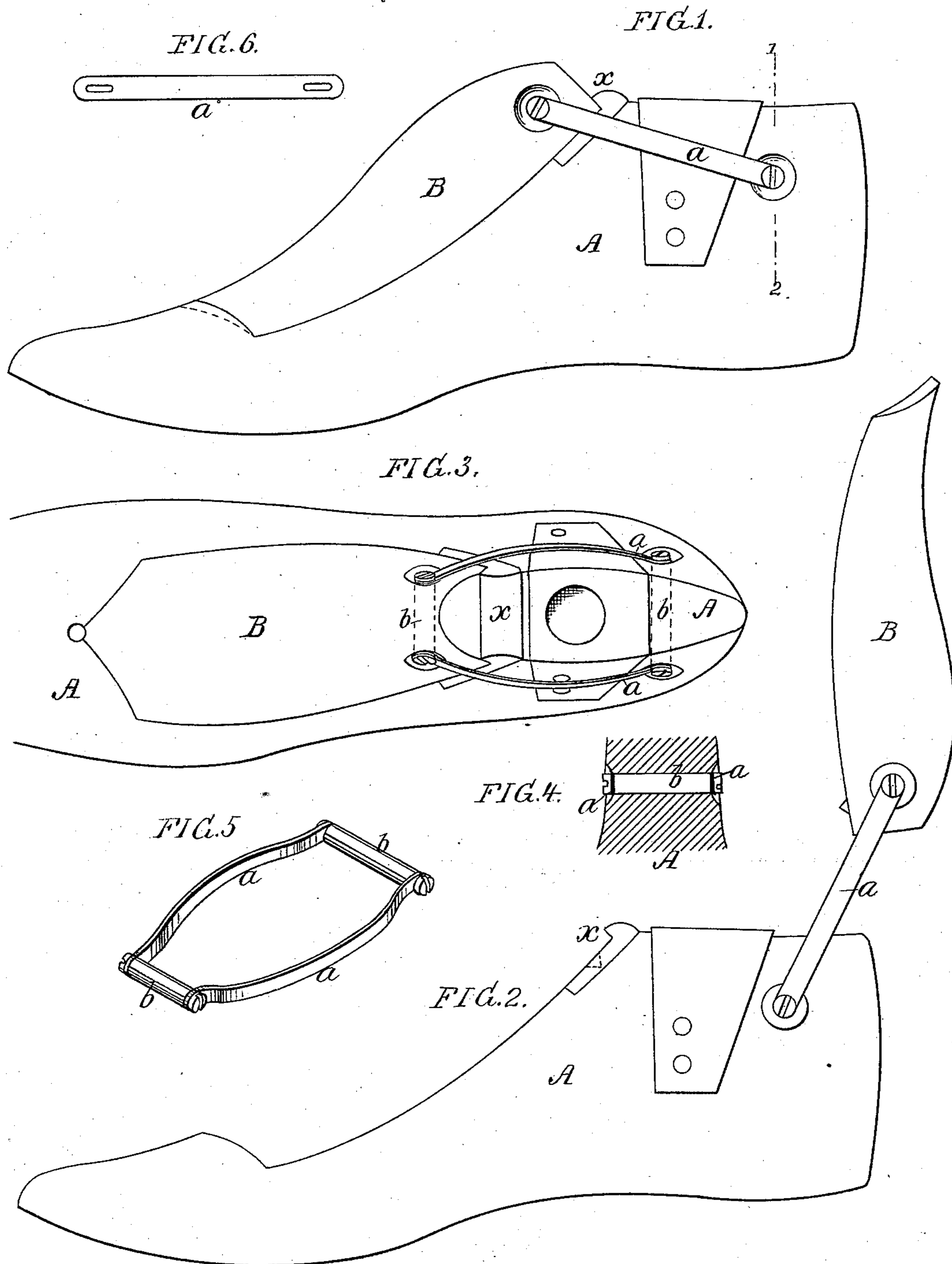


(No Model.)

M. J. DUNN.
SHOE MAKER'S LAST.

No. 286,794.

Patented Oct. 16, 1883.



WITNESSES:
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UNITED STATES PATENT OFFICE.

MICHAEL J. DUNN, OF PHILADELPHIA, PENNSYLVANIA.

SHOE-MAKER'S LAST.

SPECIFICATION forming part of Letters Patent No. 286,794, dated October 16, 1883.

Application filed May 11, 1883. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL J. DUNN, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Shoe-Makers' Lasts, of which the following is a specification.

The object of my invention is to so connect the upper portion or top block of a shoe-maker's last with the main portion that, while said top block can be readily adjusted to or withdrawn from its seat on the last, the detachment of the top block from the last is effectually prevented. This object I attain in the manner which I will proceed to describe, reference being had to the accompanying drawings, in which—

Figure 1 is a side view of a last with my improvement, the top block being adjusted to its seat; Fig. 2, a side view with the top block withdrawn; Fig. 3, a plan view of Fig. 1; Fig. 4, a section on the line 1 2, Fig. 1; Fig. 5, a detached perspective view of the connecting-straps, and Fig. 6 a modified form of connecting-strap.

A is the main portion or body of the last, and B the adjustable top block, which, when in its seat on the last, is adapted at the front end to undercut recesses in said last, and is retained at the rear end by a ribbed plate, *x*, attached to the last A, as shown in Fig. 1.

No effective means have hitherto been devised for so connecting the top block to the last that, while the ready application of the block to or its removal from the seat on the last is permitted, the detaching of the block from the last is prevented. This object I attain by connecting the last and block together by straps *a a*, which may be either elastic, as shown in Fig. 5, or slotted at their ends, as shown in Fig. 6, in order to permit the longitudinal play necessary for the application or removal of the top block. The straps *a a* may be attached by bolts or screws directly to the last and block, the latter being recessed for the reception of the heads of said screws or bolts; but I prefer to attach the straps *a a* to rods *b*, which pass through transverse openings in the last and block, the ends of these openings being countersunk. The straps *a a* are secured

to the ends of the rods by means of screws or rivets passing through eyes in the ends of the straps, and said straps are bent near their ends for adaptation to the countersunk openings in the last and block, so as to bring the screw-heads flush with the sides of the last, as shown in Fig. 4. When the rods *b* are used the openings in the last or block, or in both, may be of such diameter that the necessary longitudinal play of the straps will be permitted without slotting the same or making them elastic.

A top block connected to the last in accordance with my invention is always in condition for application to its seat on the last, the annoyance due to the top block being lost or mislaid being effectually prevented, and all risk of the wrong pairing of lasts and top blocks overcome.

I claim as my invention—

1. The combination of the last A and the top block, B, removable rearwardly from its seat on the last, with straps *a*, connected at the opposite ends to said block and last, as set forth.

2. The combination of the last A and the top block, B, removable rearwardly from its seat on the last, with straps *a*, connecting the two and having a slight longitudinal play, as set forth.

3. The combination of the last A and the top block, B, removable rearwardly therefrom, and both having countersunk openings, with straps *a*, connected to the last and block, and having ends adapted to said countersunk openings, as set forth.

4. The combination of the top block and last having transverse openings therein, the rods *b* adapted to said openings, and the straps *a* secured to the rods, as set forth.

5. The combination of the top block and last with the elastic connecting-straps *a*, pivoted to the last and block, as set forth.

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

MICHAEL J. DUNN.

Witnesses:

HARRY L. ASHENFELTER,
HARRY SMITH.