

(No Model.)

L. D. JUNKINS.  
LASTING TOOL.

No. 566,863.

Patented Sept. 1, 1896.

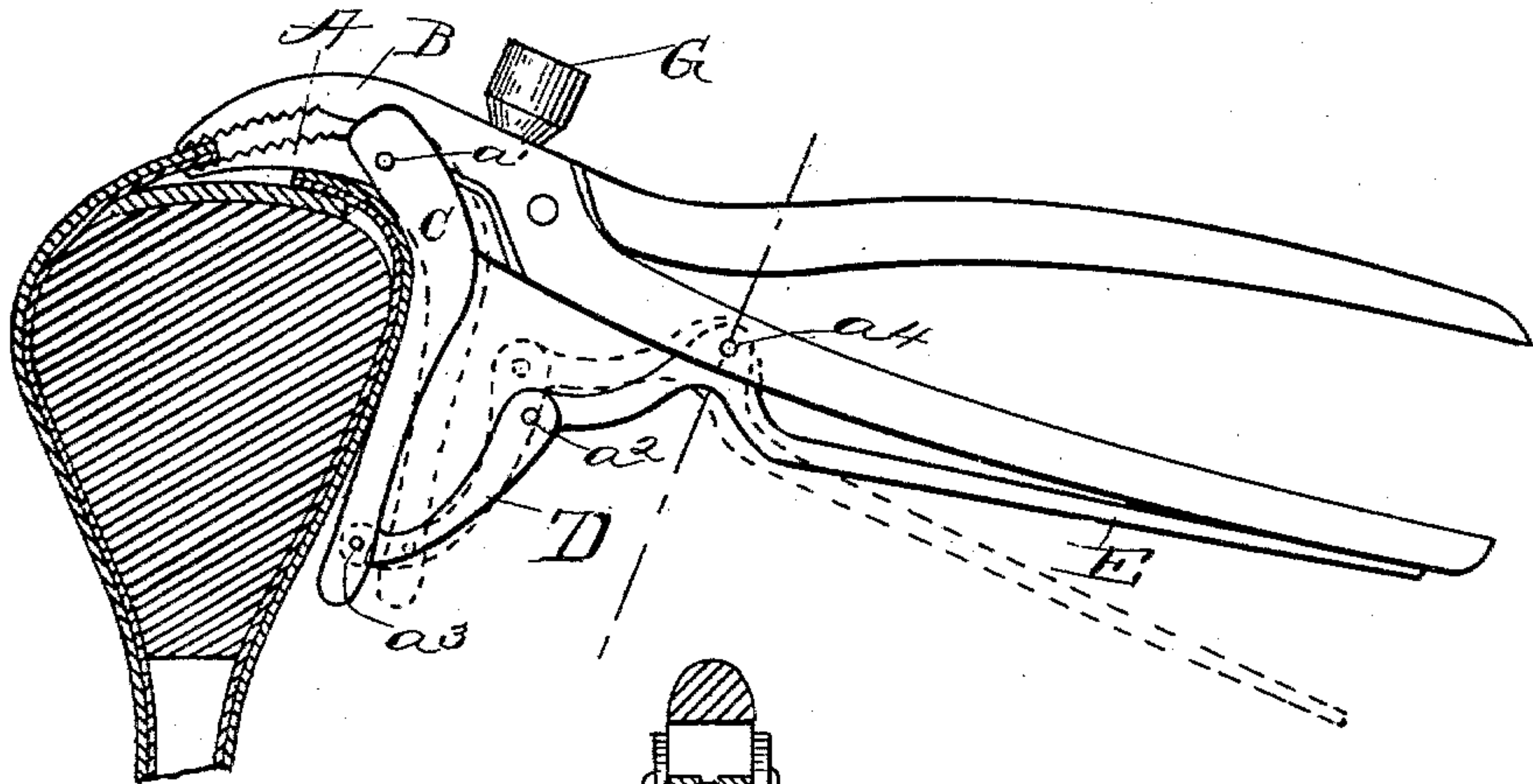


Fig. 1.

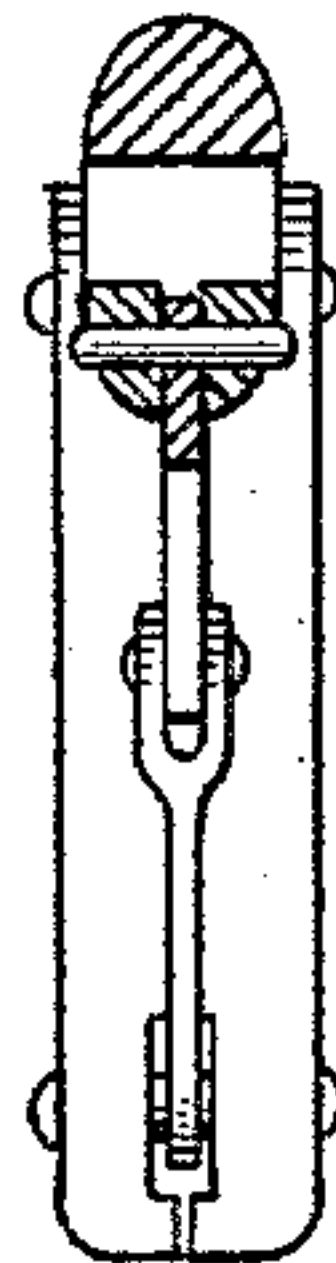


Fig. 3.

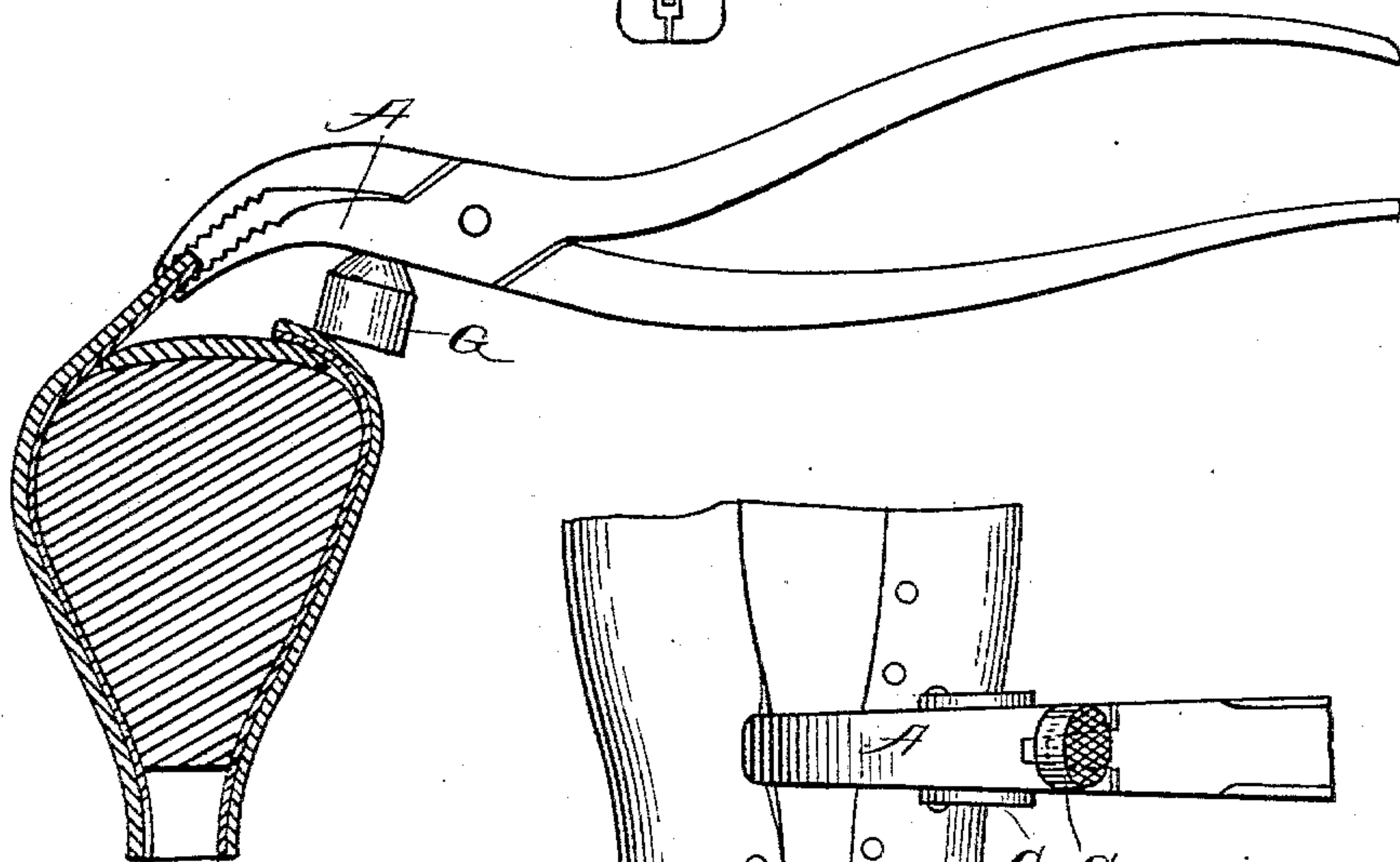


Fig. 4.

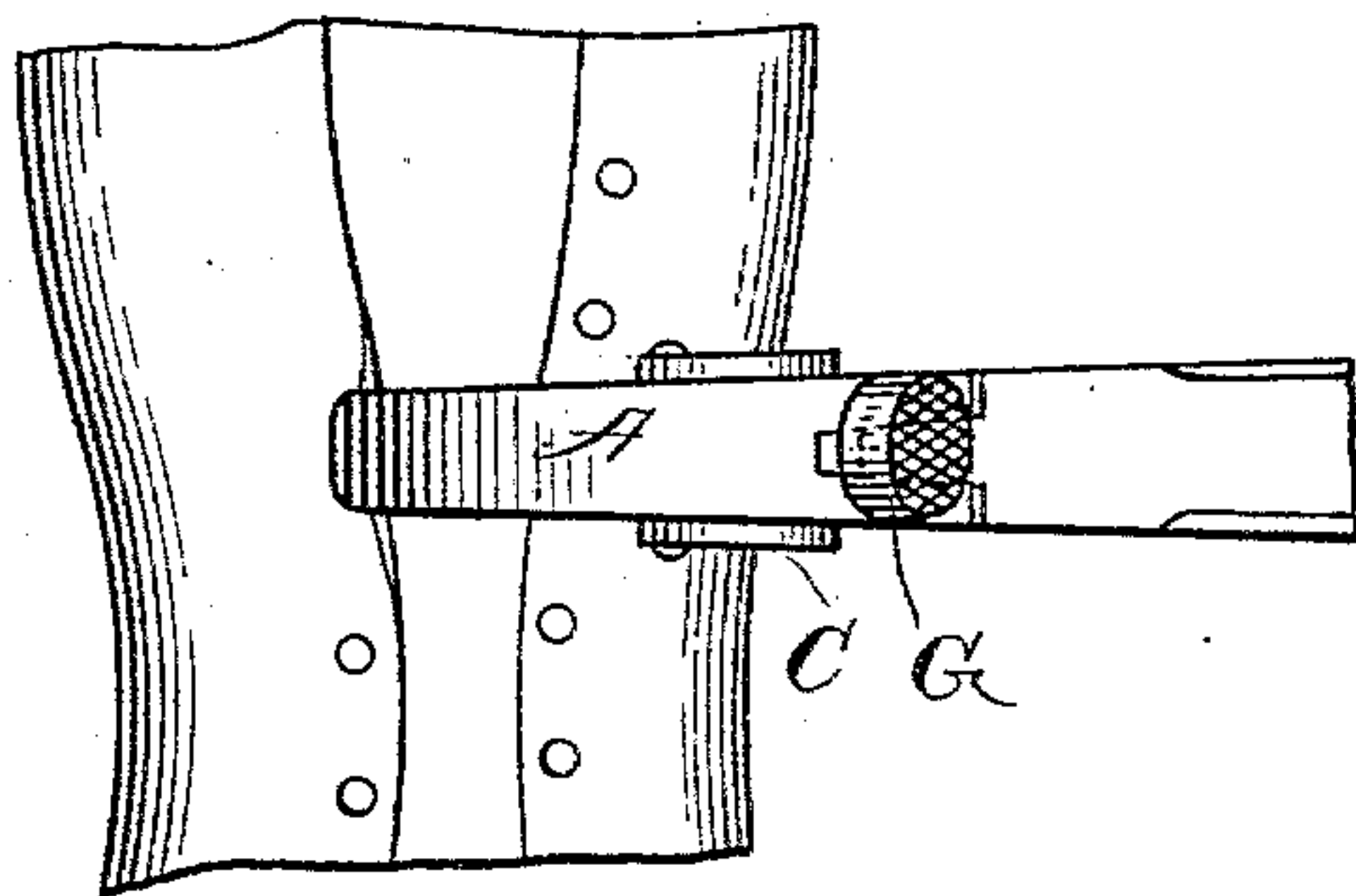


Fig. 2.

WITNESSES

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# UNITED STATES PATENT OFFICE.

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## LASTING-TOOL.

SPECIFICATION forming part of Letters Patent No. 566,863, dated September 1, 1896.

Application filed December 23, 1895. Serial No. 573,034. (No model.)

*To all whom it may concern:*

Be it known that I, LEANDER D. JUNKINS, a citizen of the United States, residing at Somerville, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Lasting-Tools; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to an improvement in lasting-tools having a pivoted fulcrum; and it consists in pivoting to the usual form of lasting-pincers a rocking fulcrum and a means for operating the same, preferably a handle or lever.

The object of the invention is to provide a movable fulcrum having a bearing-surface which, when in use, rests against the side of the upper when mounted on the last in such manner that the edge of the upper may be readily gripped by the jaws of the pincers and tightly drawn laterally over the inner sole on the last.

The invention is illustrated in the accompanying drawings, forming a part of this specification, and on which—

Figure 1 is a side view of the tool or pincers in use, showing the last and upper in section. Fig. 2 is a top plan view. Fig. 3 is a section on line  $x x$ , Fig. 1. Fig. 4 shows the ordinary tool as commonly used.

Like letters of reference indicate corresponding parts in the different views.

A represents one jaw of the tool and its lever or handle, and B is the other jaw with its handle. They are pivoted to each other at their shanks at  $a$ , and the inner faces of the jaws are corrugated, roughened, or serrated in the usual manner.

C is the movable fulcrum. It is pivoted in the present instance at its upper end to the lower jaw of the tool at  $a'$  and at the lower end to a toggle D at  $a^2$ . The fulcrum C is curved on its inner side and is of substantially the configuration of the side of the last. The toggle D is a curved lever or arm and is pivoted at its front end at  $a^3$  to the movable fulcrum C, at the lower end of the latter, and at its rear it is pivoted at  $a^4$  to the operating arm or lever E. The short arm of the arm or

lever E is pivoted to the toggle D and has an upward-curved portion, and at the apex thereof is pivoted at  $a^5$  to the handle or operating-lever of the upper jaw A. A hammer or driver G is tapped or otherwise secured on top of the tool and is to be used for driving tacks, &c., in a well-known manner. The movable fulcrum C is shown as bearing against the side of the upper on the last, in full lines in Fig. 1, and as withdrawn therefrom when not in use, as shown in dotted lines. The lower end of the fulcrum C may be bifurcated, and the front end of the toggle D may be pivoted in said bifurcation, or the toggle may be bifurcated and the lower end of the fulcrum C be pivoted therein. It is evident that either construction would produce the same result, and the structures just described are mechanical equivalents. The rear end of the toggle D is pivoted to the operating lever or handle E in the same manner. In operation the jaws grip the edge of one side of the upper and the curved edge of the fulcrum C rests against the upper on the opposite side of the last. The handles or levers of the two jaws, as well as the lever or handle E, are pressed toward each other by the operator, as well shown in Fig. 1, and the upper is drawn in close contact to or parallel with the bottom of the last over the insole mounted thereon. The fulcrum C, resting against the side of the last with the upper mounted thereon, greatly increases the purchase of the tool, and a boot or shoe is lasted with more ease, in a shorter time, and with much better results than with the ordinary tool. The tool is specially adapted for lasting the shank of a boot or shoe, although it is also capable of use in lasting the ball or the sides of the heel. It is particularly valuable and effective in lasting the shanks where the heel and toe are lasted by machine, as is customary in what is known to the trade as "the Copeland rapid laster." As the sections of the upper are drawn over the insole, successively, they are secured by tacks or equivalent means in the usual way.

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

1. A lasting-tool having gripping-jaws and their operating handles or levers and a mov-



able fulcrum pivoted to one of said jaws, and adapted to bear against the side of the last, and an independent means for operating the same, substantially as described.

5 2. A lasting-tool having gripping-jaws and operating handles or levers therefor, a movable fulcrum pivoted to one of said jaws and adapted to bear against the side of the last, a toggle arm or lever pivoted to the lower  
10 end of the movable fulcrum, and an operating-lever for the toggle and fulcrum, substantially as described.

15 3. A lasting-tool having gripping-jaws and operating handles or levers therefor, a movable fulcrum pivoted to the lower jaw, and adapted to bear against the side of the last, a toggle arm or lever pivoted to the lower end of the fulcrum and a lever for operating

the toggle and fulcrum, substantially as described. 20

4. A lasting-tool having gripping-jaws and operating handles or levers therefor, a movable fulcrum pivoted to the lower jaw and adapted to rest against the side of the last, a toggle arm or lever pivoted to the lower end 25 of the fulcrum, and an independent lever or arm, pivoted to the toggle-arm, and to one of the handles or levers of the jaws, substantially as described.

In testimony whereof I affix my signature 30 in presence of two witnesses.

LEANDER D. JUNKINS.

Witnesses:

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JOSEPH WARREN.