

(No Model.)

E. WARD.

SEWING MACHINE ATTACHMENT FOR CHANNELING LEATHER.

No. 275,794.

Patented Apr. 10, 1883.

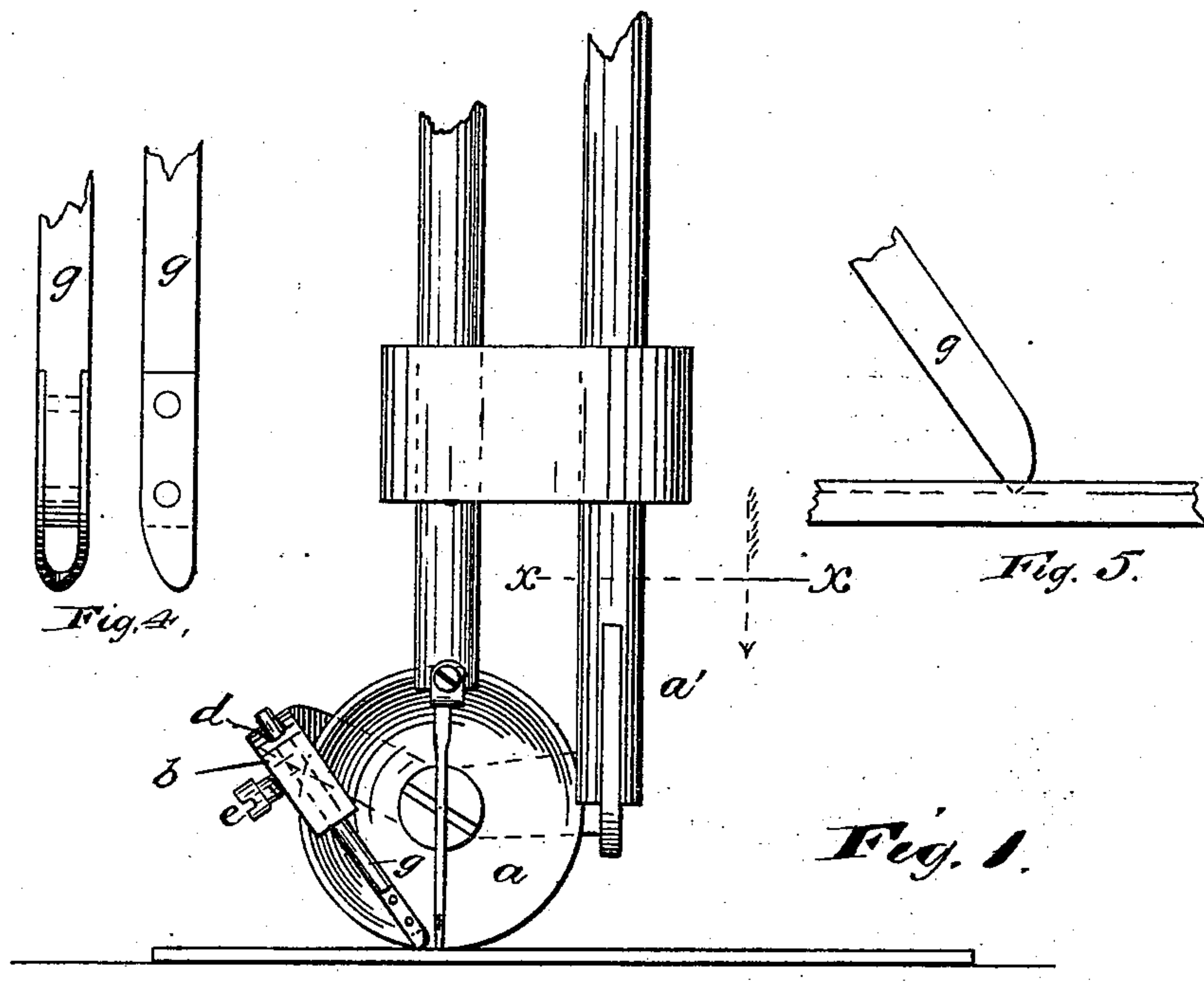


Fig. 4.

Fig. 5.

Fig. 1.

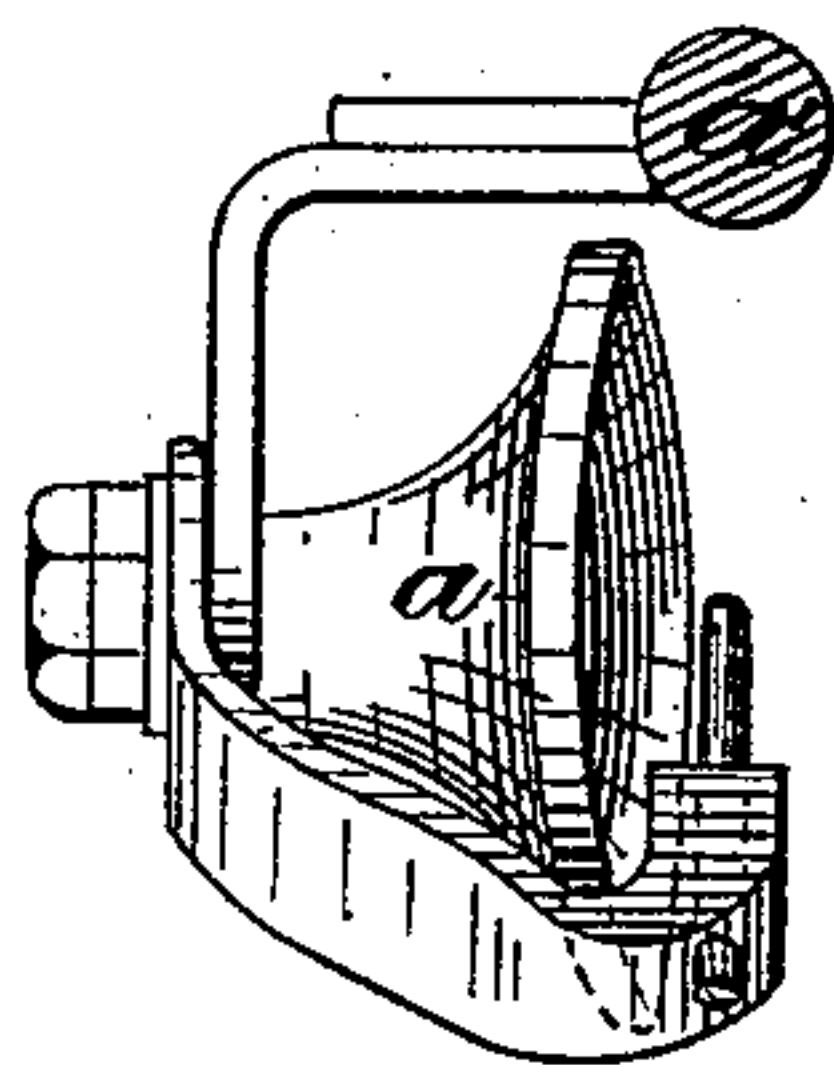


Fig. 2.

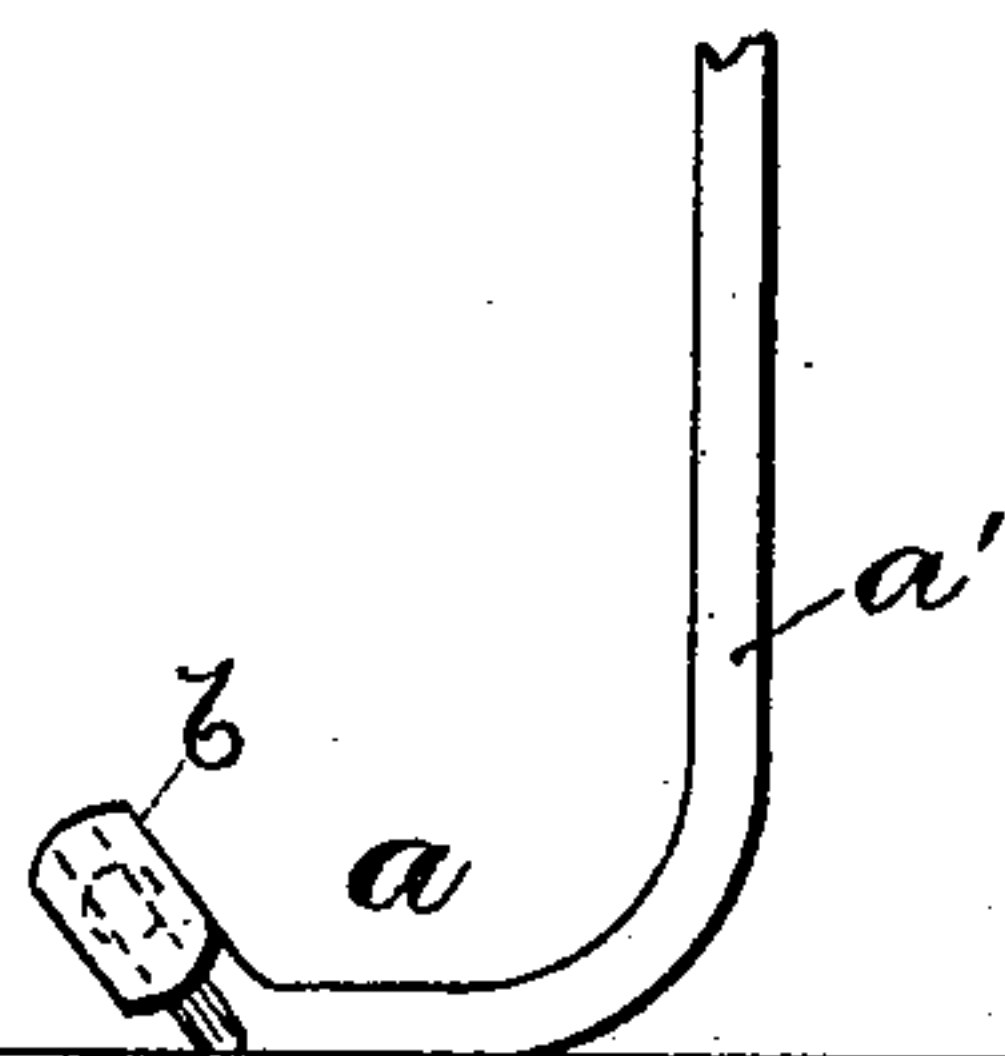


Fig. 3.

Attest:

Charles H. Que
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Inventor:

Eugene Ward,
by
O. Drake, Atty.

UNITED STATES PATENT OFFICE.

EUGENE WARD, OF NEWARK, NEW JERSEY, ASSIGNOR TO BUTLER & WARD,
OF SAME PLACE.

SEWING-MACHINE ATTACHMENT FOR CHANNELING LEATHER.

SPECIFICATION forming part of Letters Patent No. 275,794, dated April 10, 1883.

Application filed August 23, 1882. (No model.)

To all whom it may concern:

Be it known that I, EUGENE WARD, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Attachments for Sewing-Machines; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is to facilitate the operation of manufacturing various portions of harness, more especially such as are constructed from patent-leather—as, for example, winkers or blinds—whereby the cost of manufacture is materially reduced.

It consists in the arrangement and combination of parts, substantially as will be hereinafter fully set forth, and finally embodied in the claims.

Referring to the accompanying drawings, in which similar letters of reference indicate like parts in each of the several figures, Figure 1 is a side elevation of an attachment embodying my invention arranged upon a presser foot or bar of a sewing-machine. Fig. 2 is a plan of the same, the needle and bar being omitted. Fig. 3 illustrates my device as applied to another variety of presser-foot, and Figs. 4 and 5 are detached and enlarged views of the cutting-tool.

To or upon the presser-foot *a*, or to the bar *a'* thereof, of a sewing-machine is secured or formed the cutter-carrier *b*, which is constructed to receive the tool by having a tool-seat, *d*, into which the said tool is adjusted and secured by means of the set-screw *e*. The arrangement of the carrier is such as that the said tool is secured in an inclined position, the cutting extremity of the tool lying in very close proximity to the point of insertion of the needle into the leather. The nearness of the cutter to the needle makes it possible for the operator to turn very short curves in the design with neatness. The channeling-tool is constructed preferably as shown, the bar *g* having a sharp-

ened steel loop riveted or otherwise secured over the end thereof, the cutting-edge being formed to produce a small rounded groove, as will be understood.

The process employed is as follows: A pattern is first stamped or otherwise formed upon the face of the patent-leather, after which the portion is passed through the machine, pattern side up, and channeled and stitched, as hereinbefore set forth.

I am aware that, broadly, it is not new to combine with the presser-foot of a sewing-machine a furrowing-piece, which “without cutting will produce by pressure a furrow or continuous indentation.” From the peculiar elastic nature of the enamel of patent-leather this device will be practically inoperative on the class of work for which my improved device is intended. I am also aware that blades formed upon or secured to the presser-foot have been employed in the construction of reins and other round-leather work, said blades, however, being, from their shape, incapable of doing what is technically termed “channeling.” Finally, I am aware that channeling-knives and other cutting-blades have been secured to the bed-plate of a sewing-machine in various ways—for example, beneath the said bed and projecting upward through the same to engage with the under side of the leather; but in these cases it is evident that where the channeling-knife is secured upon the upper side of the bed-plate it will be impossible to channel and sew the ordinary designs upon the wide leather, because of the impossibility of turning said leather freely in every direction, and when the knife projects upward from beneath the plate it will be impossible to follow the design upon the upper face of the leather with proper accuracy and facility, all of which will be evident.

My improved device is adapted to overcome all of the above objections, and is intended to do the ornamental stitching and channeling on patent-leather winkers and other wide parts of harness where the work requires that the leather shall be turned without obstruction freely over the bed-plate; that because of the elastic nature of the enamel the channeling device be substantially as formed; that to properly fol-

low the design the operator have full view thereof and the cutter working thereover, all of which features are embodied in my improved device, whereby the said patent-leather parts
5 are channeled and sewed with peculiar neatness and facility.

Having thus described my invention, what I claim is—

1. The improved device for channeling and
10 sewing patent-leather parts, the same consisting in a sewing-machine combining therein the presser-foot *a*, a cutter-carrier arranged thereon, and a cutter having a rounded cutting-edge, all said parts being arranged and
15 operating substantially as set forth.

2. In combination, in a sewing-machine, the presser-foot *a*, the cutter-carrier, and a cutting-tool adjustably secured in said carrier, all substantially as set forth and shown.

3. In combination, in a sewing-machine, the
20 presser-foot *a*, the cutter-carrier arranged thereon, and the bar *g*, having a sharpened loop secured thereto, all said parts being arranged and operating as set forth and shown.

In testimony that I claim the foregoing I
25 have hereunto set my hand.

EUGENE WARD.

Witnesses:

CHARLES H. PELL,
OLIVER DRAKE.