

E. C. BLAKESLEE.

Processes of Finishing Sheet-Metal Butts.

No. 134,029.

Patented Dec. 17, 1872.

Fig. 1.

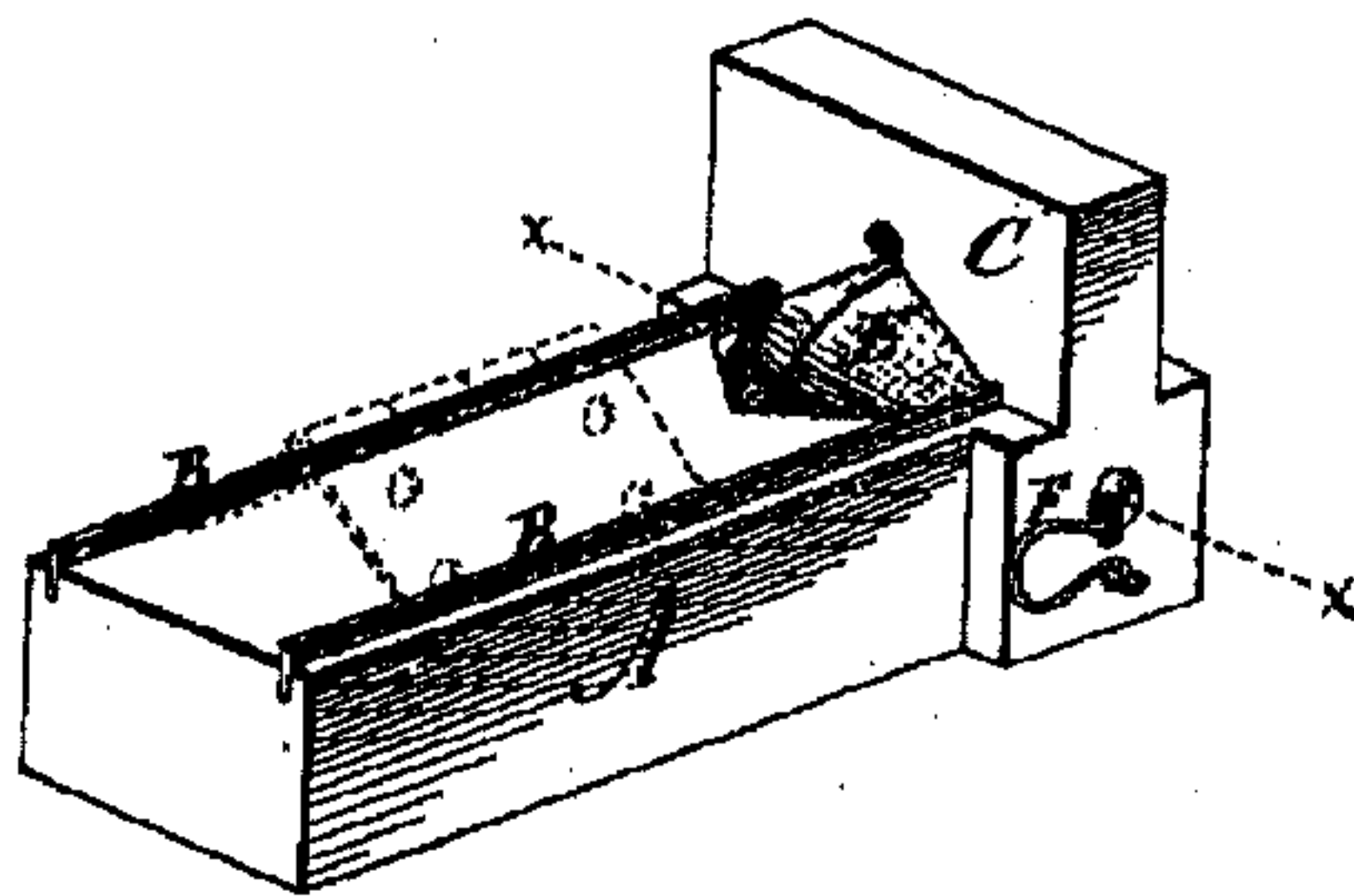
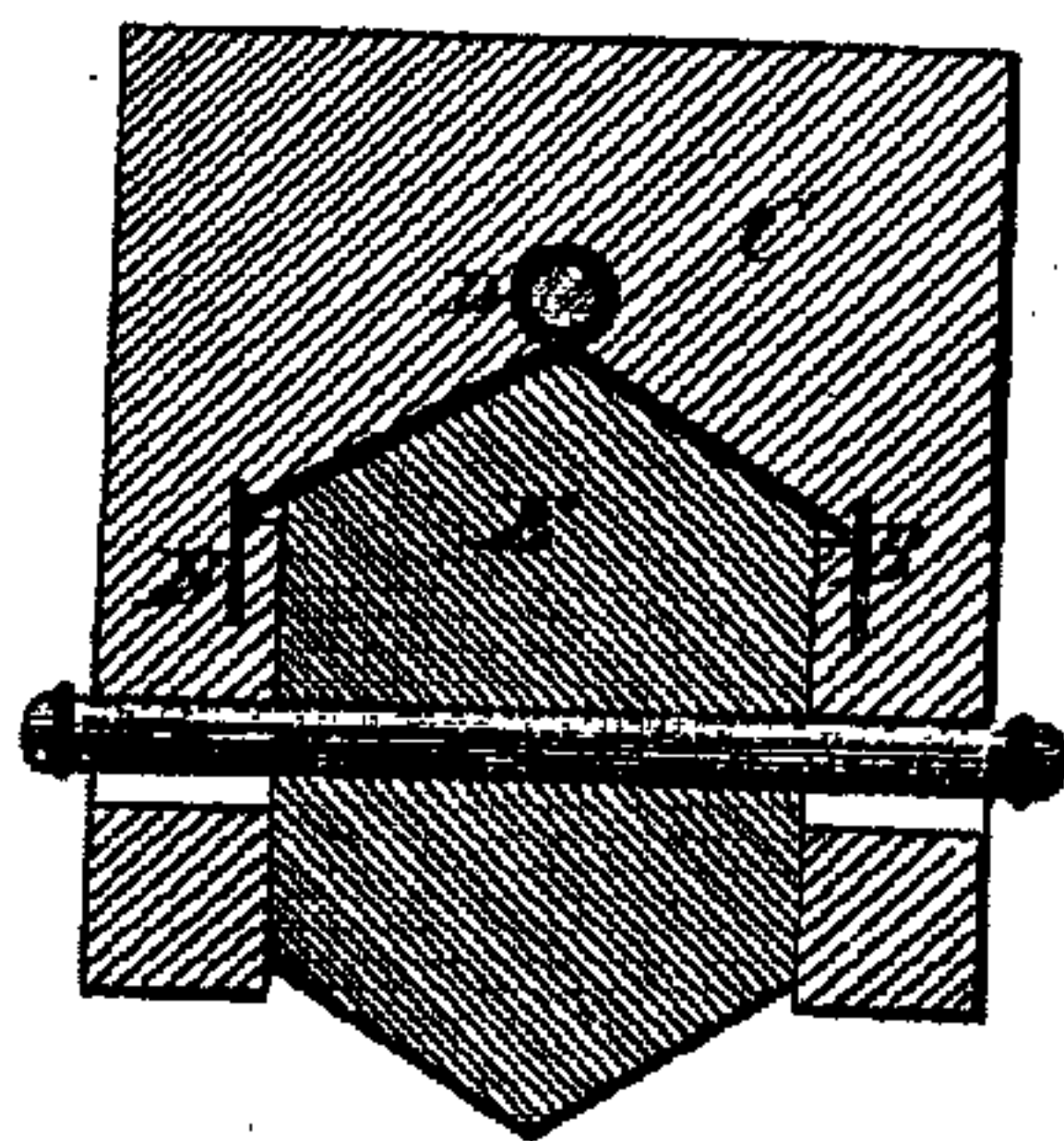


Fig. 2.



Witnesses

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IMPROVEMENT IN PROCESSES OF FINISHING SHEET-METAL BUTTS.

Specification forming part of Letters Patent No. 134,029, dated December 17, 1872.

To all whom it may concern:

Be it known that I, EDWARD C. BLAKESLEE, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new Improvement in Process for Finishing Sheet-Metal Butts; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents, in—

Figure 1, a perspective view, and in Fig. 2 a transverse section through the head on line *x x*.

This invention relates to an improvement in finishing the faces and joint of sheet-metal butts.

Heretofore this has been done by polishing-wheels or similar devices, and it has been impossible to make the joint perfectly cylindrical, and the process of finishing involves no inconsiderable amount of labor.

The difficulties mentioned and a large proportion of the expense of finishing are, by my invention, overcome; and it consists in a bed or guide on which is arranged transversely a stationary burnisher, the form of the burnisher corresponding to the faces and joint of the hinge when open to their full extent, and combined with a roll on the reverse side, which bears the butt up against the burnisher as the butt is forced through.

A is the bed, with guides B arranged upon each side and distant from each other the width of the butt, or a little more, when fully open. Near one end of this bed the burnisher C is firmly fixed. The under surface of this burnisher or finisher corresponds to the faces of the two leaves of the butt when fully open,

and at the center, as at D, with the barrel or joint between the two leaves. Beneath this burnisher C is arranged a wheel or roll, E, the periphery of which corresponds to the reverse or back side of the two leaves when open, as in Fig. 2. This wheel is supported by suitable springs F, or equivalent device, which will bear the wheel up against the butt, but yield for slight differences in the thickness of the metal. The butt is represented in Fig. 2 in solid black.

The butt is arranged upon the bed A between the guides B, as denoted in Fig. 1; then, by any suitable follower, the butt is forced through the burnisher C, this burnisher or finisher acting upon the faces of the leaves to finish the surface, and the central part of the finisher will shape the barrel or joint, working it into the exact central position and perfect cylindrical form, so that in any position the joint will be perfect.

In practice I find the ordinary punching-press to be a good if not the best means for operating this device, by adjusting the bed A vertically beneath the slide of the press, and then, with a follower in the slide working downward to drive the butt through the finisher; but the means of driving the butt is no part of my invention.

I claim as my invention—

The device herein described for finishing the face of butt-hinges, consisting of the finisher C and the bearing-surface E upon the reverse side, combined with a suitable bed or guide, A, for presenting the butt to the finisher, substantially as set forth.

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Witnesses:

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