H. SPRINGBORN & C. H. BAUSH.

Cloth-Finishing Machine.

No. 197,571. Patented Nov. 27, 1877.

Fig. 2.

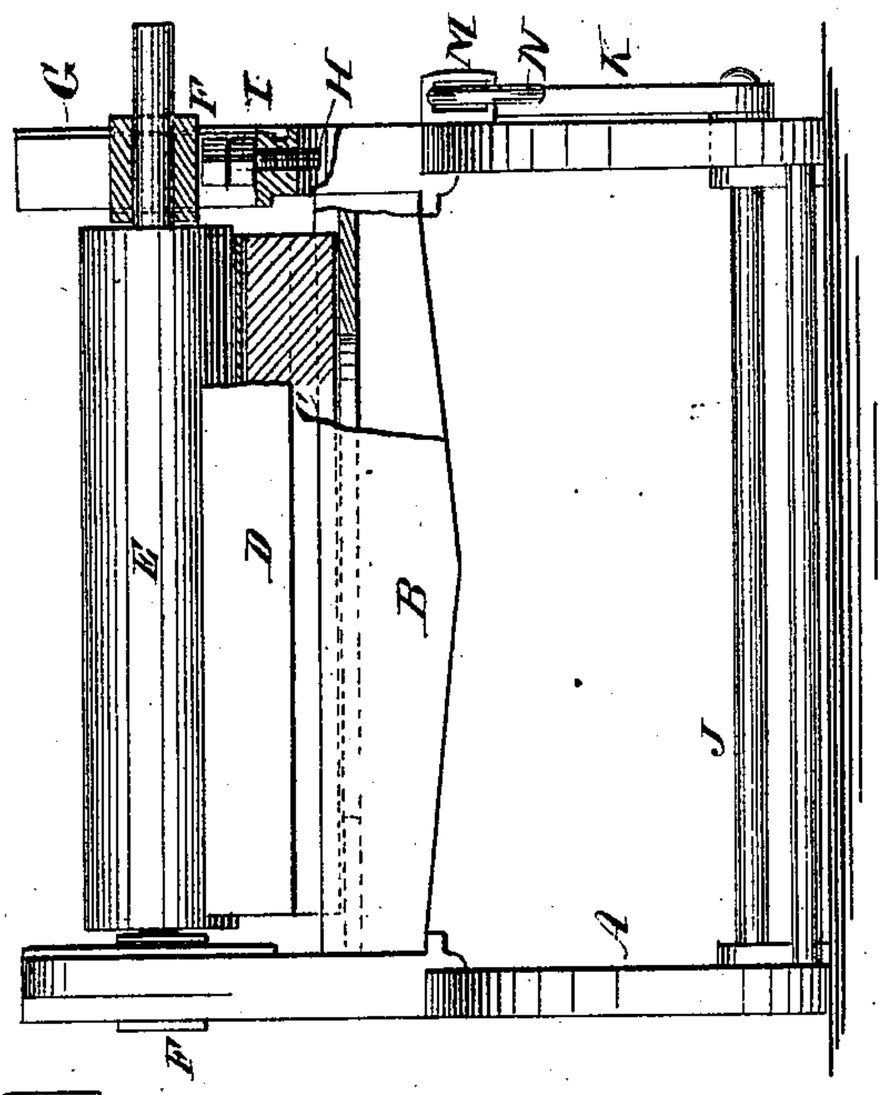


Fig. 3.

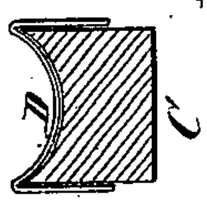
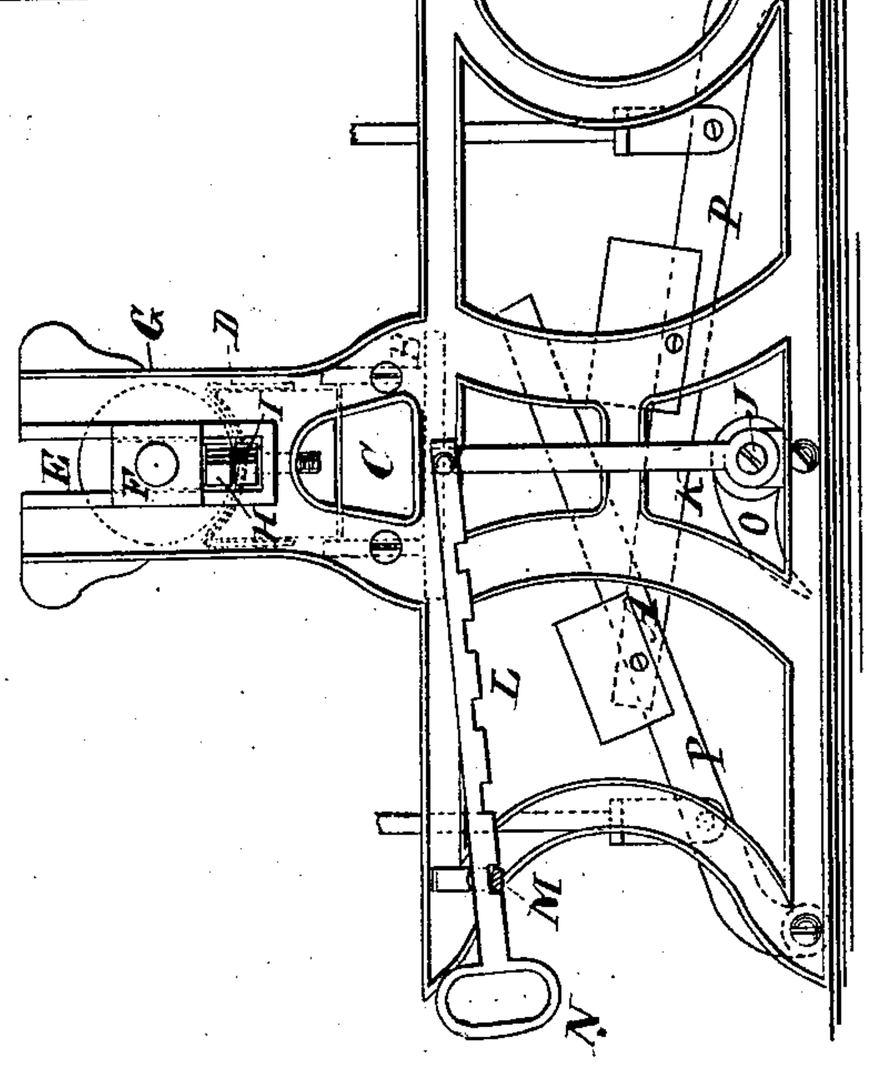


Fig. 1.



WITNESSES.

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UNITED STATES PATENT OFFICE.

HERRMAN SPRINGBORN AND CHRISTIAN H. BAUSH, OF HOLYOKE, MASS.

IMPROVEMENT IN CLOTH-FINISHING MACHINES.

Specification forming part of Letters Patent No. **197,571**, dated November 27, 1877; application filed September 10, 1877.

To all whom it may concern:

Be it known that we, HERRMAN SPRINGBORN and CHRISTIAN H. BAUSH, of Holyoke, in the county of Hampden and State of Massachusetts, have invented a new and useful Improvement in Cloth-Finishing Machines, of which the following is a specification:

Figure 1 is a side elevation of a portion of a machine embodying our improvements. Fig. 2 is a front elevation of the same, partly in section. Fig. 3 is a transverse section of the finishing-bed.

Similar letters of reference indicate corresponding parts.

Our invention relates to improvements on a cloth-finishing machine for which Letters Patent were granted to us July 17, 1877, numbered 193,193.

The invention consists in constructing the concave bed with a detachable unoxidable jacket, and in a locking device for the weight-adjusting levers, as will be hereinafter more fully described.

Referring to the drawing, A is the frame of the machine, having the support B for the hollow concave bed C. D is a jacket of sheet-brass, or other suitable unoxidable metal, fitted to the upper or concave surface of the bed, and extending downward partly over its sides. This jacket renders a cast-iron bed as efficient as one made wholly of brass or composition, while it can be made for a fraction of the cost, and blow and sand holes are avoided.

E is a solid roll, whose shaft revolves in boxes F, that are fitted to the slotted vertical portion G of the frame A. The roll E fits the concave surface of the bed C; but it is prevented from touching it by a screw, H, placed under each of the boxes F, and extending downward into the frame A. Upon each screw there is a jam-nut, I, for preventing it from becoming accidentally loosened.

The cloth is pressed between the roll E and the bed C, and the screws H are so adjusted that when the cloth runs out from between the roll and its bed, the roll will be supported by the screws, and will not come into contact with the bed and abrade it.

J is the shaft that carries cams O, for raising the weighted levers P, that press on the rolls, and K is a lever attached to this shaft, having jointed to its upper end a notched bar, L, which passes through an aperture in an ear, M, that projects from the side of the frame A. The bar L is also provided with a handle, N.

By raising the bar and moving it through the ear M the shaft J is turned, and by allowing one of its notches to engage the ear M the bar is locked, so that the shaft J cannot turn.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. The hollow concave bed C, provided with a detachable sheet-metal jacket, D, covering the top surface and sides of said bed, as and for the purpose set forth.

2. The combination, in a cloth-finishing machine, of the notched bar L, keeper M, and lever K with the cam-shaft J, cam O, and weighted levers P, as and for the purpose described.

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Witnesses:
HERMAN EGER,
JULIUS BECHER.