

B. M. J. BLANK.

LEATHER-DRESSING MACHINE.

No. 170,983.

Patented Dec. 14, 1875.

Fig: 1.

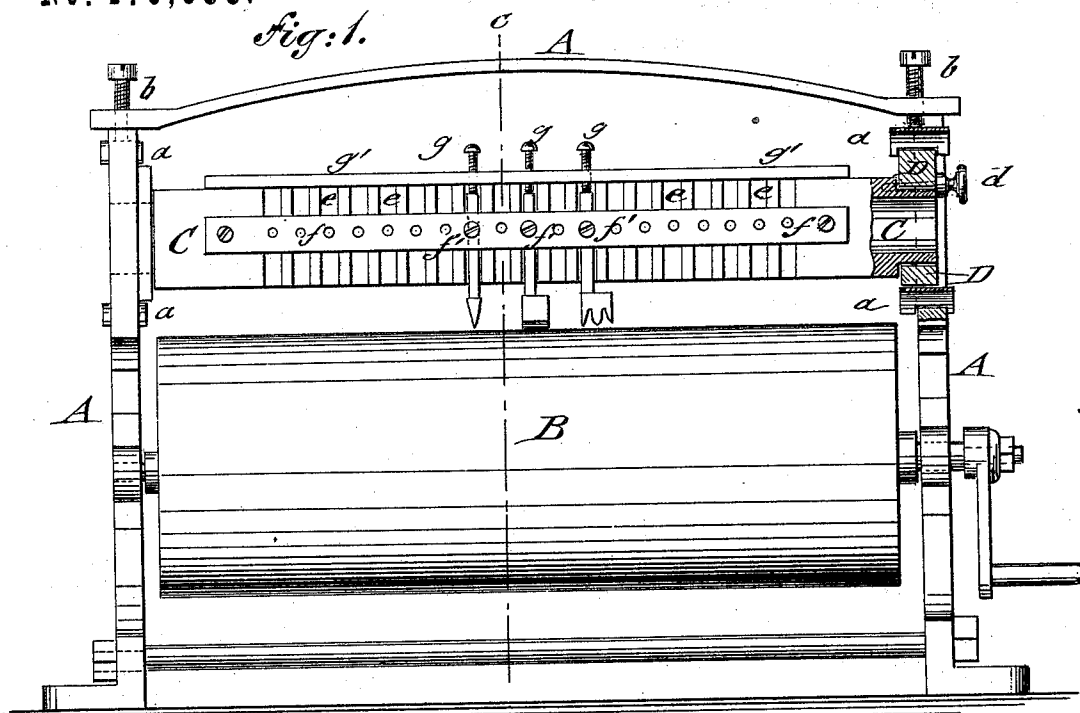


Fig: 2.

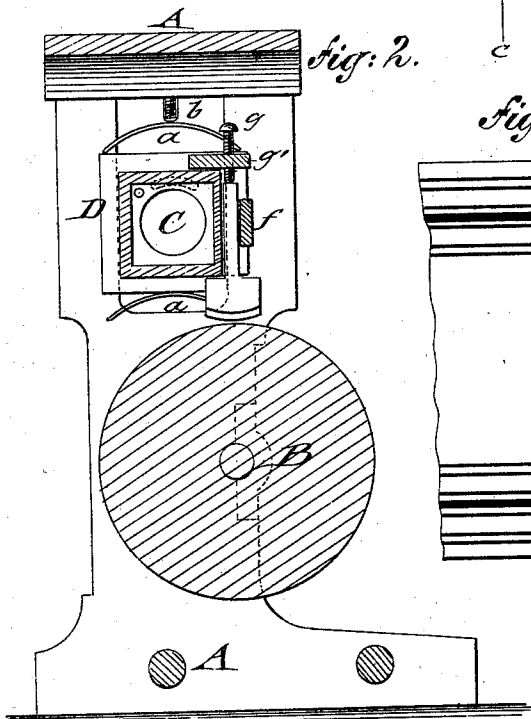


Fig: 4.

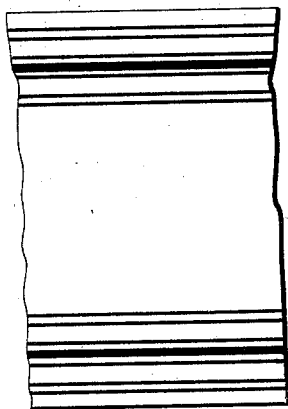
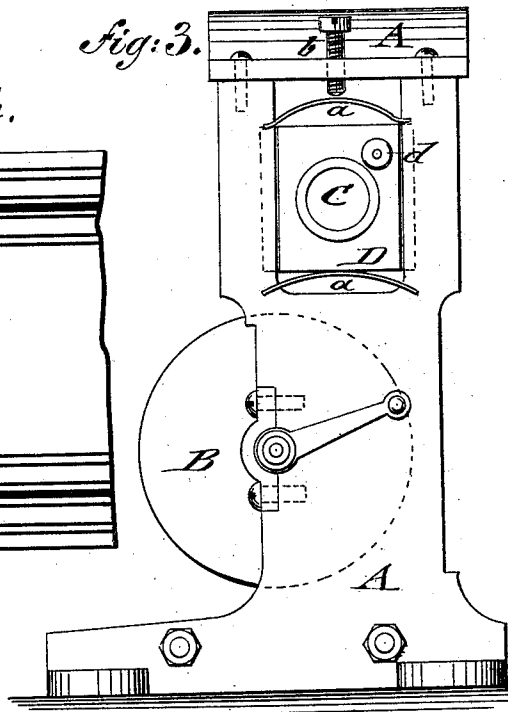


Fig: 3.



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UNITED STATES PATENT OFFICE.

BART M. J. BLANK, OF JERSEY CITY HEIGHTS, NEW JERSEY, ASSIGNOR TO MORRIS RUBENS, OF NEW YORK CITY.

IMPROVEMENT IN LEATHER-DRESSING MACHINES.

Specification forming part of Letters Patent No. **170,983**, dated December 14, 1875; application filed November 6, 1875.

To all whom it may concern:

Be it known that I, BART M. J. BLANK, of Jersey City Heights, in the county of Hudson and State of New Jersey, have invented a new and Improved Machine for Creasing and Polishing Leather, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a front elevation, partly in section, of my improved machine for creasing and polishing leather. Fig. 2 is a vertical transverse section on line *c c*, Fig. 1; Fig. 3, an end view of the same, and Fig. 4 a top view of a piece of leather creased by the machine.

Similar letters of reference indicate corresponding parts.

The object of my invention is to furnish manufacturers of leather goods of all kinds an improved machine by which the creasing and polishing of leather may be rapidly and uniformly accomplished, and a considerable saving in time and labor be obtained in comparison to the work produced by hand or mechanisms at present employed for this purpose.

The invention consists of a revolving feed-roller, in connection with a series of creasing or polishing dies, that are secured by gage and set screws to socket-grooves of a hollow spring-cushioned tube or case, which is heated from the inside, and capable of being swung back to admit the ready insertion of the dies.

In the drawing, A represents the supporting-frame of my improved leather creasing and polishing machine, which is made of two side standards, braced by the top and bottom connecting parts. A roller, B, of wood or other suitable material, is revolved by hand or other power in bearings of frame A, below a hollow die-carrying tube or case, C, which is preferably made of square cross-section, and supported by round gudgeons or ends in sliding and spring-acted bearings D of frame A. The tension of the cushioning-springs *a* of the bearings D is regulated by set-screws *b*, acting on top springs of the same.

The hollow tube or case C is heated from the inside by gas or other heating agency, which is introduced through the end gudgeons, suitable perforations in the rear wall

of the heating-tube serving to keep up the required draft in the interior of the tube.

The heating-tube C is rigidly locked into position by a lock-bolt, *d*, or other device, that passes through one or both bearings D into the square end of the tube, admitting, on being withdrawn, the swinging of the heating-tube on its round gudgeons. The front or face of the heating-tube C is provided with a series of grooves, *e*, into which the stems of a series of creasing and polishing dies are socketed, the same being rigidly secured therein by a front strip, *f*, and set-screws *f'*, and adjusted by top gage-screws *g*, turning in a top strip, *g'*.

The creasing-dies may be made of any suitable shape to make one or more creases on the leather, and any number of them may be arranged together to produce any desired design or configuration of creases on the leather.

For polishing a larger or smaller surface of the leather, smooth dies of larger or smaller size are applied to the heating-tube, and rigidly attached by means of two or more stems, according to size. The heating up of the tube and dies, so that they are ready for the work, is done in a short time, the heated dies creasing or polishing the leather without burning or injuring the same.

When a different arrangement of the dies is desired, the locking device is released, and the heating-tube thrown back into inclined position, which admits the more convenient adjustment of the dies according to the design of the article.

The leather is passed with great rapidity through the machine, and the creasing and polishing accomplished by the heated tube in very regular and superior manner.

The machine is very advantageous to pocket-book, blank-book, satchel, and other manufacturers, as it economizes time and labor, and furnishes even and superior work.

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

1. In a machine for creasing and polishing leather, the combination of a revolving feed-roller with a series of adjustable creasing and polishing dies, secured to a hollow heating

tube or case, substantially in the manner and for the purpose set forth.

2. The combination of the heating tube or case, provided with front grooves, with suitable dies secured and adjusted by set and gage screws, substantially in the manner as set forth.

3. The combination of the heating tube or case, turning in sliding and spring-cushioned

bearings, with a locking device, for holding the tube or case in fixed position while in operation, and adapted to swing in an inclined position for removing or inserting the dies, all substantially as and for the purpose set forth.

B. M. J. BLANK.

Witnesses:

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