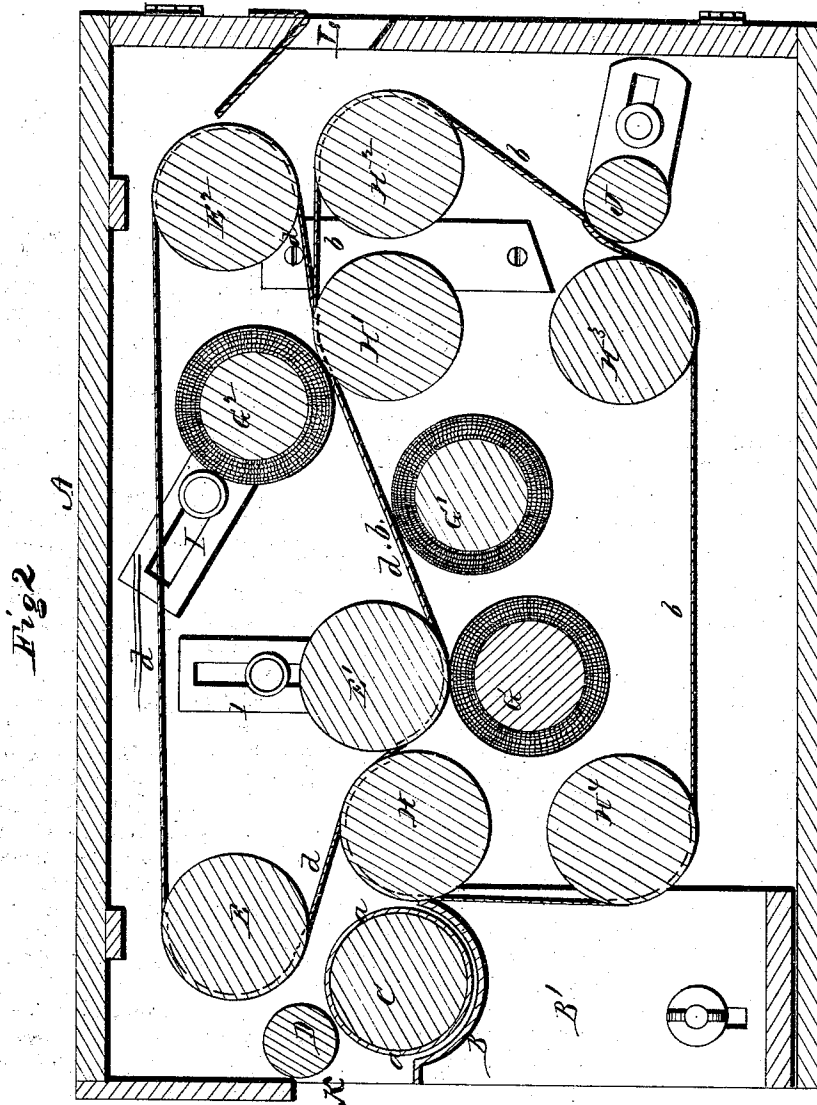


W. D. COOKE.
Bronzing-Machines.

No. 154,226.

Patented Aug. 18, 1874.



WITNESSES.
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UNITED STATES PATENT OFFICE.

WILLIAM D. COOKE, OF RALEIGH, NORTH CAROLINA, ASSIGNOR TO
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IMPROVEMENT IN BRONZING-MACHINES.

Specification forming part of Letters Patent No. **154,226**, dated August 18, 1874; application filed
May 23, 1874.

To all whom it may concern:

Be it known that I, WILLIAM D. COOKE, of Raleigh, in the county of Wake and in the State of North Carolina, have invented certain new and useful Improvements in Bronzing-Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a machine for bronzing labels, cards, &c., as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a side elevation, and Fig. 2 a longitudinal vertical section, of my machine.

A represents a box or case of any suitable dimensions. At one end of the box is a concave receptacle or pan, B, for containing and supplying the bronzing material, and in the same revolves a roller, C, which is covered with a soft thick cloth, *a*, as shown in Fig. 2. Above this roller is a small feed-roller, D, as shown. G, G¹, and G² represent brush-rollers, the surfaces of which are formed of wool or other suitable material. In the casing A are further arranged two series of rollers, E E¹ E² and H H¹ H² H³ H⁴, all the rollers being arranged substantially in the manner shown in Fig. 2. Around the two sets of rollers E and H are passed two series of cords, *b* and *d*, both series passing over the roller H, between the roller E¹ and brush G, over the brush G¹, and between the brush G² and roller H¹. The bronze-receptacle B is attached to a frame, B¹, made adjustable in the box A up and down, so as to bring it closer to or farther from the roller C, as may be required, according to the amount of bronze in the receptacle and the amount of bronze to be distributed, the latter depending upon the kind and quality of work to be done. The roller E¹ and brush G² have their bearings in adjustable slides I I in the sides of the box, for the purpose of tightening

the cords *d*, and to regulate the pressure of the brushes G and G². The cords *b* are kept tight by means of an adjustable tightening-roller, J. The other rollers all have their bearings in the sides of the box A, and they are all revolved by means of suitable belts, gearing, or other means.

The operation of the machine is as follows: The bronze is placed in the receptacle B, from which it is taken up by the roller C, and received upon the card or label, which enters the machine, face down, from a feed-table arranged opposite the aperture K in the end of the box. The paper is pressed upon the bronzing-roller by the small roller D, which insures its taking up the bronze. It then passes between the two series of cords *b* and *d*, over the brush G, which fastens the bronze. It then passes over the brush G¹, which polishes the bronze. Then it passes under the brush G², which removes the bronze-dust which may adhere to the back of the label, and then passes out of the box finished at the aperture L. The bronze that is brushed off from the paper, &c., falls into a pan to be placed on the bottom of the box A, from whence it can be removed and used again, thus saving all the bronze.

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

1. The combination of the adjustable bronze-receptacle B, cloth-covered roller C, and pressure-roller D, substantially as and for the purposes herein set forth.

2. The combination, in a bronzing-machine, of the adjustable bronze-receptacle B, bronzing-roller C, with pressure-roller D, fastening-brush G, polishing-brush G¹, cleaning-brush G², the two series of rollers E and H, and the two series of cords *b* and *d*, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 15th day of April, 1874.

WILLIAM D. COOKE.

Witnesses:

W. J. PRIMROSE,
JORDAN WOMBLE, Jr.