(No Model.)

J. F. SARGENT.

BRUSH FOR BRONZING AND FOR OTHER PURPOSES.

No. 274,978. Patented Apr. 3, 1883.

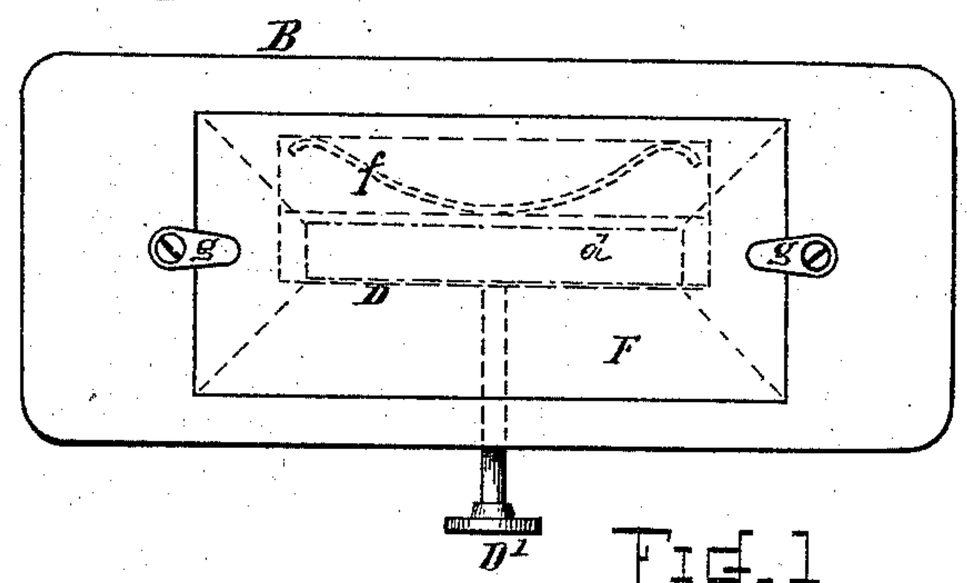

FIG. 1

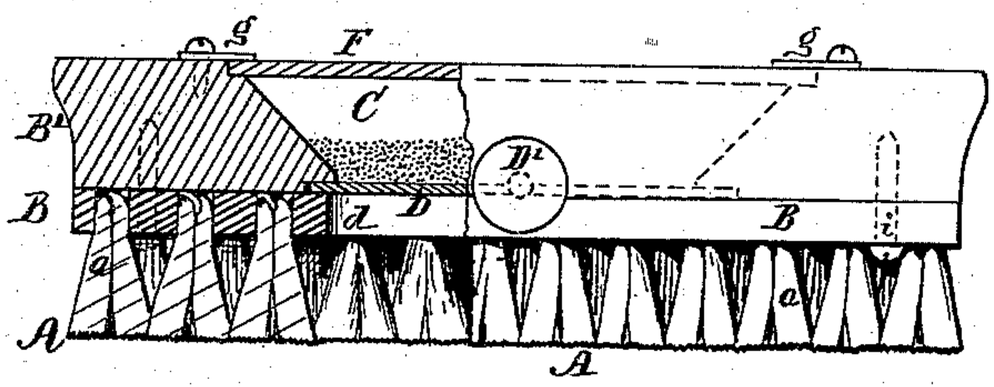

FIG. 2

FIG. 3

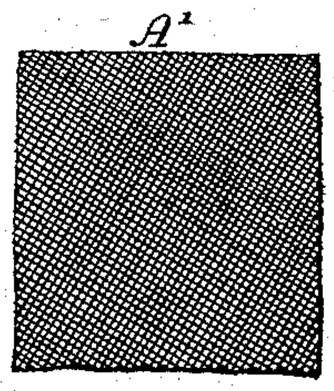

FIG. 4

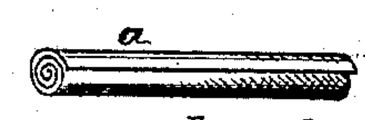

FIG. 5

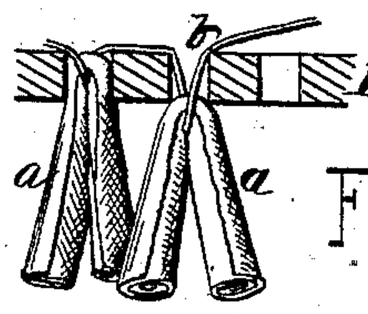

FIG. 6

Witnesses
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UNITED STATES PATENT OFFICE.

JOSEPH F. SARGENT, OF WORCESTER, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO HENRY W. MASON, OF SAME PLACE.

BRUSH FOR BRONZING AND FOR OTHER PURPOSES.

SPECIFICATION forming part of Letters Patent No. 274,978, dated April 3, 1883.

Application filed February 14, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH F. SARGENT, of Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Brushes for Bronzing and for other Purposes; and I declare the following to be a description of my said invention sufficiently full, clear, and exact to enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

The object of my present invention is, first, to provide a practical and efficient brush or rubber for spreading or cleaning off bronze-powder in the operation of bronze-printing, and for other purposes; second, to afford a simple and convenient bronzing-brush having facilities for supplying bronze to the surface as desired. These object I attain by mechanism such as hereinafter described, the particular features claimed being definitely specified.

In the drawings, Figure 1 represents a plan view, Fig. 2 a part side, part sectional, view, and Fig. 3 a bottom view, of a bronzing-brush constructed to illustrate the nature of my invention. Figs. 4, 5, and 6 are views showing details of construction.

One feature of my invention consists in making the brush from cloth, felt, or textile fabric formed into small rolls and set into a supporting frame or backing, of wood or other suitable material, so that the ends of said rolls project and present the edge fibers of the fabric in a series of close tufts, which are properly trimmed off and leveled to give a soft smooth working-face for distributing and clearing off the loose bronze-powder.

In the drawings, A indicates the working-face of the brush, which is composed of small pieces of fabric A′, preferably ordinary cotton cloth cut to proper shape and size and formed into small rolls *a*, which are folded at their centers and drawn into holes in the frame or brush-back B, and secured by wires or cords *b*, in a manner similar to the fastening of bristle-brushes. The projecting ends are then trimmed off to give an even uniform surface. The tufts or rolls of cloth can be set more or less closely to give the desired density of surface. The back B is bored with a series of holes for the reception of the rolls in substantially the same manner as for the construction of a bristle-brush.

The shape of the brush may be made to conform with the requirements of service. Cylindrical brushes for bronzing-machines can be made of cloth formed into rolls and drawn into holes in the lags or strips which form the cylinder, in the same manner as above described, and I desire to include such brushes as part of my invention.

Another feature consists in combining with a brush of the nature described a receptacle and means for containing and distributing bronze while the brush is in use, as hereinafter explained, thus making a very convenient and serviceable device for applying bronze by hand. The brush frame or back B is made of the form indicated, and is provided with a central longitudinal aperture, *d*, upon the top; or within the auxiliary piece B′ of the back B, I arrange a receptacle or hopper, C, for containing bronze-powder. In the bottom of the hopper is a gate or slide, D, for closing the aperture *d*, and said gate is provided with a closing-spring, *f*, (see dotted line, Fig. 1,) and with a knob, D′, by means of which the gate can be opened by pressure of the finger thereon. A close-fitting cover, F, is provided for closing the top of the receptacle C, said cover being furnished with buttons *g* or other suitable fastening devices. The working-face of the brush has a central opening corresponding with the aperture *d*, and permits the free passage of bronze. The brush-frame and auxiliary piece B′ may be secured together by screws *i* or otherwise, the gate D and spring *f* being fitted to the inner face of the part B′ before the parts of the back are secured together.

In the operation of bronzing, the workman takes the brush by the sides, and as he passes the brush over the sheets of printed matter he can regulate the distribution of bronze as required by pressure of one finger on the knob D′, letting fall a greater or less quantity of the

bronze-powder, accordingly as he applies more or less pressure to the knob D′.

What I claim as of my invention, and desire to secure by Letters Patent, is—

1. A brush the working-face of which is composed of small rolls of cloth or cotton fabric drawn into and secured in a backing of wood or other suitable material, substantially as hereinbefore set forth.

2. The combination, with a brush having a working-face composed of small rolls of cloth drawn into and supported by a rigid backing, as set forth, of a receptacle for bronze-powder, and means for regulating the flow of bronze therefrom, substantially as set forth.

3. The combination of the brush A, the backing-piece B B′, having the hopper C, with central longitudinal aperture, *d*, and the gate with operating-knob D′, substantially as and for the purposes described.

Witness my hand this 10th day of February, A. D. 1883.

JOSEPH F. SARGENT.

Witnesses:

CHAS. H. BURLEIGH,

HENRY W. MASON.