

United States Patent Office.

JAMES E. POLLARD, OF FRANKLIN, MASSACHUSETTS, ASSIGNOR TO THE
ELLIOTT FELTING MILLS, OF THE SAME PLACE.

Letters Patent No. 71,213, dated November 19, 1867.

IMPROVEMENT IN EMBOSSING CLOTH.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL PERSONS TO WHOM THESE PRESENTS MAY COME:

Be it known that I, JAMES E. POLLARD, of Franklin, in the county of Norfolk, and State of Massachusetts, have invented a new and useful Improvement in Embossing and Metallizing Cloth or various other materials; and I do hereby declare the same to be fully described in the following specification.

By "metallizing" cloth, I term the application and fixation of gold, bronze, or other powder or leaf to the surface of such cloth, and particularly during the process of embossing such surface, the metal or material to be applied being affixed to portions of such surface raised above the remainder, and having an ornamental character.

In carrying out my process, I first coat the engraved part or parts of the embossing-plate with a composition consisting of two parts of dissolved shellac and one part of linseed oil. The shellac is a hardener to the surface, and the oil is to prevent the gold powder or metallizing material from adhering to the plate. Next I put the gold or bronze powder, leaf, or metallizing material on and over the composition so placed on the engraved part or parts of the plate, and afterward, on the said metallizing material, I spread a composition or paste, which may be composed of seven parts of starch and one part of fish-glue dissolved in water. Next the embossing-plate, so prepared, is to be pressed on the cloth by means of a powerful press, heat being applied to it at the same time, so as to dry the paste. The figure produced by the engraved parts of the plate will thus be gilded or metallized on its surface.

Flock may be put on cloth in a similar manner.

I am aware that cloth and leather have been metallized by an embossing-plate and gold-leaf simply pressed upon the cloth or leather or upon a glutinous paste applied thereto. I do not claim such, as I apply to the embossing-plate a resisting medium to prevent the adhesion of the metallic powder thereto, and afterward, to such powder I apply an adhesive composition, such as will cause it to leave the engraved parts of the plate and adhere to the embossed portions of the cloth.

I claim the above-described improved process of embossing and metallizing cloth or other material, such consisting in the employment of the gum, oil, and paste, or their equivalents, with the embossing-plate and metallizing material, under circumstances and in the manner substantially as specified.

J. E. POLLARD.

Witnesses:

GEO. H. ANDREWS,
F. P. HALE, Jr.