F. E. Schmidt,

Press Dyeing.

No. 65,955. Patented June 18. 1867.

Fig. 1.



Fig. 2.

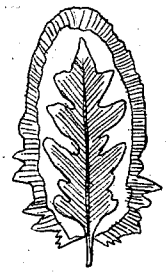


Fig. 3.



Fig. 4.



Witnesses
Theo Tusche
Wm. Trewin.

Inventor.
F. E. Schmidt.
Per Munn & Co
Attys.

United States Patent Office.

FREDERICK EMIL SCHMIDT, OF HOBOKEN, NEW JERSEY.

Letters Patent No. 65,955, *dated June* 18, 1867.

IMPROVEMENT IN THE MANUFACTURE OF ORNAMENTAL FEATHERS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that I, FREDERICK EMIL SCHMIDT, of Hoboken, Hudson county, New Jersey, have invented a new and useful Improvement in the Manufacture of Ornamental Feathers; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new manner of coloring feathers, so that the same may be prepared for the market and be used on ladies' and childrens' wearing apparel, and for other ornamental purposes.

Heretofore feathers were colored by being painted by hand, and as this is a very tedious process it made the articles too expensive. Furthermore, the paints used would stick the laminæ together and make a bad appearance. My invention consists in painting the color upon the feathers, a proceeding by which a very great variety of very artistical patterns can be marked on the feathers with but a small expense. Such printed feathers have a very beautiful appearance, and can be colored, shaped, and arranged into imitations of all sorts of flowers, whereby an altogether new article of manufacture can be produced which could not be brought into general use on account of its high price as long as the feathers had to be painted by hand. The color should, of course, be so arranged that it will penetrate the feathers and will not be simply pasted upon the same. A natural appearance is thereby given to the feathers, and they can be made glossy, if desired.

The feathers are first washed with soap or soda-water, or otherwise cleaned, and appear then as shown in Figure 1. They are then brought under the printing-press and are printed in the ordinary manner, when they will appear as shown in fig. 2, colored, but the ends roughened and pressed together. As the coloring matter is water-proof, the feathers thus printed can be steamed in a covered vessel, washed, and dried, and can be made glossy by repeated steaming, when they will appear as in Figure 3. Then they may be trimmed into the required shape, according to the design, &c., for which they are intended, when they appear as in Figure 4. Plumes can be also beautifully colored in this manner, and can be used for various ornamental purposes.

I claim as new, and desire to secure by Letters Patent, as new articles of manufacture—

Ornamental feathers, which have been colored in a printing-press, and which are treated substantially as herein shown and described.

FREDERICK EMIL SCHMIDT.

Witnesses:

WM. F. MCNAMARA,

ALEX. F. ROBERTS.