UNITED STATES PATENT OFFICE.

JOSEPHINE WILLIAMS, OF COLUMBIA CITY, INDIANA.

IMPROVEMENT IN DYEING AND COLORING FEATHERS, LACES, AND OTHER FABRICS.

Specification forming part of Letters Patent No. **194,392**, dated August 21, 1877; application filed May 31, 1877.

To all whom it may concern:

Be it known that I, JOSEPHINE WILLIAMS, of Columbia City, in the county of Whitley and State of Indiana, have invented a new and useful Process for Coloring or Dyeing, which process is fully set forth in the following specification.

The object of my invention is to provide a simple, cheap, rapid, and effective means of coloring or dyeing feathers, laces, ribbons, artificial flowers, silks, cambrics, muslins, and fine or coarse fabrics of various others kinds; also kid-gloves and other articles made of the tanned skins of animals.

In the practical application of my invention to the objects and purposes for which it is intended the following process is employed: Pour into an open glass or earthen dish, or other suitable receptacle, a quantity of that grade or quality of burning-fluid known as "gasoline" or "napththa" sufficient to thoroughly wet or saturate the object or article to be dyed or colored. Then take ordinary ground oil-mixed paint of whatever shade or color that may be desired, and add to and mix with the burning-fluid or gasoline or naphtha as large or small a quantity of the paint as may be found necessary to impart to the fluid the tint or color that is desired to be given to the article to be colored or dyed. When the gasoline has thus been brought to the desired tint or color, or as nearly so as may be found practical, then immerse the article to be colored in the fluid prepared as above indicated, quickly and thoroughly saturate the article, and immediately remove it from the bath, draw it gently and quickly through the naked hand, a soft cloth, or a piece of soft tissue paper, shake it briskly in the air, and the work is done. The color or tint is fixed permanently, and the gasoline or naphtha quickly evaporates, leaving the article fresh, bright, odorless, and beautifully colored in the tint desired.

By the use of my process the color of the article is readily changed from a lighter to a darker shade or tint of the same or another color, or by intermixing different colors of paint in the gasoline any desired combination of tints, colors, or shades of color may be produced.

The process is a simple and continuous one, consuming but little time, there being no tedious delays for the colors to set, or for the article to dry after coloring, and the process leaves the article in a lively pliable condition. It also has a remarkably renovating effect on such articles as feathers, laces, kid-gloves, &c.

The paints to which I allude are ordinary mercantile mineral paints ground in oil, without the addition of oil, driers, or other substances.

To impart a yellow color to white feathers, woolen or other fabrics, I take one quart of gasoline or naphtha, pour it into a suitable open dish, and then add to and thoroughly mix with it one ounce of ordinary chrome-yellow paint ground in oil. This mixture constitutes the bath or solution into which the article to be dyed or colored is plunged and retained until saturated, when it is immediately removed and manipulated, as hereinbefore described.

I do not claim the use of gasoline or naphtha for mixing or thinning paints, or for preparing colors for printing cloths, or for dissolving or removing fatty or resinous mordants from fabrics after dyeing or coloring the same.

What I claim as my invention is—

My improved process of dyeing and coloring, which consists in immersing the material to be colored in a bath of gasoline or naphtha and mineral pigment ground in oil, in substantially the proportions described, and then removing and drying, as specified.

JOSEPHINE WILLIAMS.

Witnesses:

O. H. WOODWORTH,

WALTER OLDS.