

UNITED STATES PATENT OFFICE.

SAMUEL MELLOR, OF PATRICROFT, COUNTY OF LANCASTER, ENGLAND.

MORDANT.

SPECIFICATION forming part of Letters Patent No. 241,398, dated May 10, 1881.

Application filed December 10, 1880. (No specimens.) Patented in England May 5, 1880.

To all whom it may concern:

Be it known that I, SAMUEL MELLOR, a subject of the Queen of Great Britain and Ireland, and residing at Patricroft, in the county of Lancaster, England, have invented Improvements in Fixing Aniline or other Colors and Dyes, (for which I have obtained a Patent in Great Britain, No. 1,834, May 5, 1880,) of which the following is a specification.

These improvements relate to the fixing of aniline and other colors and dyes used in the dyeing and printing of cotton, silk, or other textile fabrics, whether alone or in conjunction with any form of tannin; and the invention consists in the use therefor of stibio-fluorine salts—that is, the fluorides of antimony, the fluosilicates of antimony, the double fluorides of antimony and sodium, or of antimony and potassium, or of antimony and ammonium, the fluo-antimonates of sodium, potassium, or ammonium, the fluo-oxyantimonates of sodium, potassium or ammonium, or any combination of fluorine and antimony, either by themselves or in conjunction with any other metal or metalloid.

Although I claim as my invention the use for this purpose of any of the before-mentioned compounds of antimony, yet I use in preference (chiefly to reduce the cost) the double fluorides of antimony and sodium and the fluo-

antimoniate of sodium, potassium, or ammonium, the former when an acid salt, and the latter when a neutral or alkaline salt, is required to meet the varying qualities and conditions of the coloring-matters to be fixed.

In using either of the above-named salts of antimony I make a bath containing such a quantity of any of these salts as will equal about from one-quarter of an ounce to one ounce of metallic antimony to the gallon of solution. Through this bath (either cold or at any temperature up to boiling-point) the cloth, previously dyed, or printed, or otherwise prepared with the colors requiring fixing, is passed, then washed and finished in the usual way.

The details of the use of said agents and the proportions may be varied without departing from my invention.

I claim as my invention—

The within-described fixing agent for dyes or colors, said agent consisting, essentially, of stibio-fluorine salts, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL MELLOR.

Witnesses:

CHARLES DAVIES,
JNO. HUGHES.