UNITED STATES PATENT OFFICE.

ANTON A. GEHRLEIN, OF ERIE, PENNSYLVANIA.

PROCESS OF DYEING.

1,292,453. Specification of Letters Patent. Patented Jan. 28, 1919.

No Drawing. Application filed May 2, 1918. Serial No. 232,038.

To all whom it may concern:

Be it known that I, ANTON A. GEHRLEIN, a citizen of the United States, residing at Erie, in the county of Erie and State of Pennsylvania, have invented certain new and useful Improvements in Processes of Dyeing; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to dyeing cloth, paper and other fibrous material and has for its object improvements in the method of setting and fixing the color after the material to be dyed has been saturated with the color.

I have discovered that by subjecting the colored material to a bath of acid sodium sulfate I am enabled to secure a brighter and more permanent color in the finished material than has been heretofore attained by the use of alum and other materials ordinarily used for fixing dyes.

I accomplish the desired result by subjecting the material to be dyed to a bath of saturated coloring material, preferably an anilin coloring material, and after the material to be colored is thoroughly saturated by the dye I preferably remove the material from the coloring bath and then immerse it in a bath saturated with acid sodium sulfate for a sufficient time to permanently set and fix the color in the material, after which the material to be colored is removed from said bath and washed in water until the surplus fixing material is freed therefrom. I can, however, if desired, insert the fixing material directly into the coloring bath after the material to be colored is sufficiently saturated with the color, and thereby fix the color with good results. I, however, prefer the first named method of carrying out my invention.

What I claim is new and desire to secure by Letters-Patent, is:

1. The method of dyeing and fixing colors in material, consisting substantially in subjecting the material saturated with the color to the action of acid sodium sulfate, substantially as set forth.

2. The method of dyeing and fixing color in material to be dyed, consisting substantially of subjecting the material after it is saturated with the color, to treatment with acid sodium sulfate, substantially as set forth.

In testimony whereof I affix my signature.

ANTON A. GEHRLEIN.