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UNITED STATES PATENT OFFICE.

ADOLF KERTESZ, OF MAINKUR, GERMANY, ASSIGNOR TO CASSELLA COLOR COMPANY,
A CORPORATION OF NEW YORK.

DYEING OF COTTON OR LINEN CLOTH WITH VAT-COLORS.

1,043,016.

Specification of Letters Patent.

Patented Oct. 29, 1912.

No Drawing.

Application filed January 13, 1912. Serial No. 671,107.

To all whom it may concern:

Be it known that I, ADOLF KERTESZ, a subject of the Kingdom of Hungary, and a resident of Bismarckstrasse 5, Mainkur, Germany, have invented certain new and useful Improvements in the Dyeing of Cotton or Linen Cloth with Vat-Colors, of which the following is a full description.

In the dyeing of cotton or linen fabrics the vat colors have hitherto presented the great disadvantage of showing an insufficient penetration in the case of thick and heavy goods, because the dyestuffs settle on the surface of the goods. I have now discovered that this objection can be overcome if an alkaline sulfid and an alkaline hydrosulfite are added to the vat dyestuffs in the dyebath. Preferably the sulfid is added first, and after dyeing for some time, the hydrosulfite is added. By this method the dyestuff is enabled to penetrate thick and heavy goods to a much greater extent than has before been possible.

The majority of vat colors are soluble in the sulfid bath, but even in the case of those which are only soluble to a certain extent, a considerable improvement is effected as some

of the color will penetrate to the middle of the fabric.

Example: The jigger is charged with 20 30 grams indigo MLB/6B, Ciba blue, alizarin, indigo, etc., 20 grams sodium sulfid crystals, 10 grams caustic soda lye of 75° Tw., per liter of liquor. Dye for 1 hour at the boil, then add 2 to 4 grams hydrosulfite per liter, 35 and dye for about another half hour at 65 to 70° C.

Having now described my invention and in what manner the same is to be performed, what I now claim is:— 40

The process of dyeing vat dyes in heavy and tightly woven cotton and linen consisting in the following steps: the fabric is first dyed in a bath containing sodium sulfid and then dyed again in the same bath to which 45 hydrosulfite has been added substantially as described.

In witness whereof I have hereunto signed my name this 28th day of Dec. 1911, in the presence of two subscribing witnesses.

ADOLF KERTESZ.

Witnesses:

JEAN GRUND,
CARL GRUND.