

UNITED STATES PATENT OFFICE.

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

PROCESS OF DYEING VEGETABLE FIBERS WITH HALOGENATED INDIGO AND INDIGOID
DYESTUFFS.

1,029,066.

Specification of Letters Patent.

Patented June 11, 1912.

No Drawing.

Application filed December 11, 1911. Serial No. 664,923.

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 Processes of Dyeing Vegetable Fibers with Halogenated Indigo and Indigoid Dyestuffs, of which the following is a full description.

10 It is known that the vat dyestuffs derived from thioindigo not only dye in the presence of hydrosulfite, but also in the presence of sodium sulfid, whereas with other indigo derivatives this is not the case
15 so far as regards sodium sulfid.

I have now discovered that, in contradistinction to indigo, halogenated indigo dyestuffs such as di-, tri- or tetrabromo indigo, tetrachloro indigo, or indigoid dyestuffs
20 having a halogenated indigo nucleus, dye cotton, linen, etc., exceedingly well with sodium sulfid, the dyeing being carried out in a manner similar to that with sulfid colors, except that caustic soda lye is added
25 to the bath.

The employment of sodium sulfid has the great advantage of being much cheaper than hydrosulfite and of allowing the dyeing to be carried out at a higher temperature.
30 The dyestuff is also completely reduced.

Some hydrosulfite may be added if desired toward the end of the operation.

Example: The dye bath is charged with 20% indigo MLB/4B (tetrabromo indigo), 12% sodium sulfid, 10% caustic soda lye
35 77° Tw., 20% Glauber salt.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—
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1. The process of dyeing vegetable fibers with halogenated indigo and indigoid dyestuffs by treating the material in a hot alkaline liquor containing the dyestuff and in addition sodium sulfid as a reducing
45 agent.

2. The process of dyeing vegetable fibers with halogenated indigo and indigoid dyestuffs by treating the material in a hot alkaline liquor containing the dyestuff and
50 in addition sodium sulfid as a reducing agent, hydrosulfite being added only toward the end of the operation.

In witness whereof I have hereunto signed my name this 25th day of November 1911,
55 in the presence of two subscribing witnesses.

ADOLF KERTESZ.

Witnesses:

JEAN GRUND,
CARL GRUND.