

UNITED STATES PATENT OFFICE.

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CORPORATION OF GERMANY.

PROCESS OF DYEING.

1,060,342.

Specification of Letters Patent.

Patented Apr. 29, 1913.

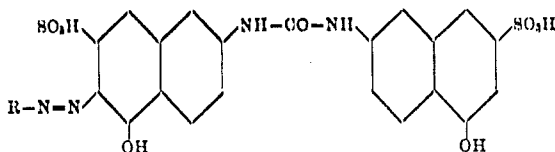
No Drawing.

Application filed September 24, 1912. Serial No. 722,061.

To all whom it may concern:

Be it known that we, MYRTIL KAHN and ANTON OSSENBECK, doctors of philosophy, chemists, citizens of the German Empire, residing at Elberfeld, Germany, have invented new and useful Improvements in Processes of Dyeing, of which the following is a specification.

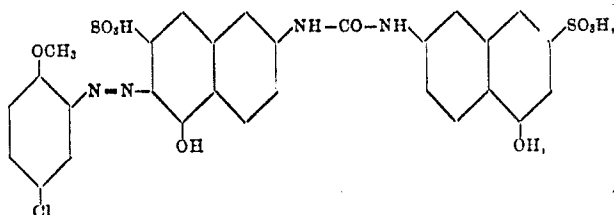
Our invention relates to the production of red shades on the fiber and consists in dyeing the fiber with an azodye obtained from one molecule of a diazotized ortho-anisidin compound and one molecule of the urea of 2-amino-5-naphthol-7-sulfonic acid having the following general formula:



R standing for the radical of a diazotized ortho-anisidin or an orthoanisole radical, and treating the dyed fiber with diazotized nitranilin. Pure red shades fast to washing which can be readily discharged are thus obtained.

In order to illustrate the new process more fully the following example is given, the

parts being by weight:—A dye bath is prepared from 1000 parts of water, 4 parts of the dyestuff obtained by combination of one molecule of diazotized 4-chloro-2-anisidin with one molecule of the urea of 2-naphthylamin-5-oxy-7-sulfonic acid having most probably the formula:

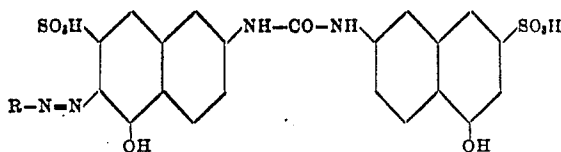


2 parts of calcined sodium carbonate and 40 parts of Glauber salt. 100 parts of cotton are entered into the bath which is then heated in such manner that it boils within half an hour and the boiling is continued for half an hour. The dyed goods are finally treated with a solution of 2 parts of diazotized para-nitranilin, exposed to air and rinsed. A pure red fast to washing is thus obtained which can be discharged to a pure white with hydrosulfites. The fiber can also be padded or printed with these dyestuffs and can then be combined on the

fiber with diazotized nitranilins. Dyestuffs obtained from 5 or 4-nitroanisidin, 4-chloro-2-anisidin, etc., can be used.

We claim:

1. In the art of producing red shades fast to washing which can be readily discharged, the process consisting of first treating the fabric with a solution of an azodye obtained from one molecule of a diazotized ortho-anisidin compound and one molecule of the urea of 2-amino-5-naphthol-7-sulfonic acid having the following general formula:



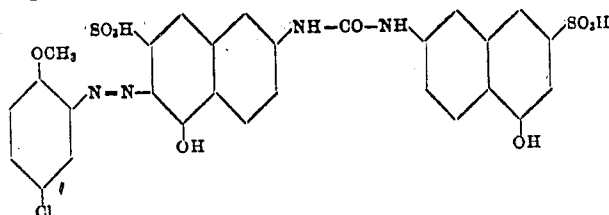
(R standing for an ortho-anisole radical) | and then passing the goods through a bath

containing a diazotized nitranilin, substantially as described.

2. In the art of producing red shades fast to washing which can be readily discharged, the process consisting of first treating the fabric with a solution of an azodye obtained from one molecule of a diazotized ortho-anisidin compound and one molecule of the urea of 2-amino-5-naphthol-7-sulfonic acid and then passing the goods through a bath

containing a diazotized para-nitranilin, substantially as described.

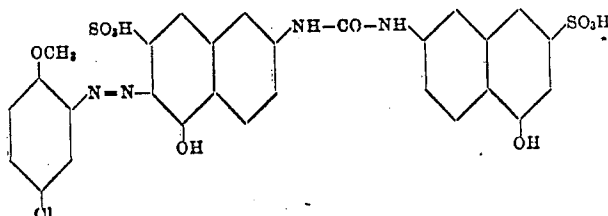
3. In the art of producing a pure red shade fast to washing which can be readily discharged, the process consisting of first treating the fabric with a solution of the dye obtained from diazotized 4-chloro-2-anisidin and the urea of 2-naphthylamin-5-oxy-7-sulfonic acid having most probably the formula:



and then passing the goods through a bath containing diazotized nitranilin, substantially as described.

4. In the art of producing a pure red shade fast to washing which can be readily discharged, the process consisting of first

treating the fabric with a solution of the dye obtained from diazotized 4-chloro-2-anisidin and the urea of 2-naphthylamin-5-oxy-7-sulfonic acid having most probably the formula:



and then passing the goods through a bath containing diazotized para-nitranilin, substantially as described.

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In testimony whereof we have hereunto

set our hands in the presence of two subscribing witnesses.

MYRTIL KAHN. [L. S.]
ANTON OSSENBECK. [L. S.]

Witnesses:

HELEN NUFER,
ALBERT NUFER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."