

UNITED STATES PATENT OFFICE.

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DARK-BROWN WOOL-DYE.

SPECIFICATION forming part of Letters Patent No. 767,069, dated August 9, 1904.

Application filed April 13, 1904. Serial No. 202,909. (Specimens.)

To all whom it may concern:

Be it known that I, AUGUST LEOPOLD LASKA, doctor of philosophy, chemist, residing at 5 Gerberstrasse, Offenbach-on-the-Main, Ger-
5 many, have invented new and useful Improve-
ments in Dark-Brown Wool-Dyes, of which
the following is a specification.

My invention relates to the manufacture of
10 monoazo dyes by combining sulfo-conjugated
diazonaphthalenes with meta-oxydiphenyl-
amin. These dyestuffs yield on wool dyed in
the usual manner and subsequently treated
with chromic compounds acting as oxidizing
15 agents dark-brown shades of valuable prop-
erties.

The process may be carried out both in acid
and in alkaline solution.

Example: Diazotize, as usual, 24.5 parts of
20 naphthionate of sodium by means of 6.9 parts
of sodium nitrite and forty-six parts of hydro-
chloric acid 20° Baumé. Then pour the diazo
compound into a solution, cooled with ice, of
18.6 parts of meta-oxydiphenylamin in ninety
parts of sodium lye of 35° Baumé and two hun-
25 dred parts of water. At the end of the reaction
acidulate weakly by adding hydrochloric acid
to the solution, then salt out, dry, and finally
mix the dyestuff thus obtained with 10.6 parts
of soda.

30 The dyestuff forms a reddish-brown pow-
der, dissolves in water with a yellowish red,
in concentrated sulfuric acid with a reddish-
violet color, and yields on wool when treated

after dyeing with chromium compounds act-
ing as oxidizing agents blackish - brown 35
shades. In a similar manner the combination
may be carried out with other mono and di
sulfonic acids of the alpha and beta diazo-
naphthalenes.

Now, what I claim, and desire to secure by 40
Letters Patent, is the following:

1. The process of making monoazo dyes,
consisting in the combination of sulfo-conju-
gated diazonaphthalenes with meta-oxydi-
phenylamin. 45

2. The process of making monoazo dyes,
consisting in the combination of the sulfonic
acids of the alpha-diazonaphthalene with me-
ta-oxydiphenylamin.

3. As new articles of manufacture the mono- 50
azo dyes which result by combining the sul-
fonic acids of the alpha-diazonaphthalene
with meta-oxydiphenylamin, forming reddish-
brown powders, dissolving in water with a
yellowish red and in concentrated sulfuric acid 55
with a reddish-violet color and yielding on
wool when treated after dyeing with chro-
mium compounds, acting as oxidizing agents,
blackish-brown shades.

In testimony whereof I have signed my name 60
to this specification in the presence of two sub-
scribing witnesses.

AUGUST LEOPOLD LASKA.

Witnesses:

HERMANN WEIL,
OSKAR STANDHARDT.