

UNITED STATES PATENT OFFICE.

KARL BRENZINGER, OF LEVERKUSEN, NEAR COLOGNE, GERMANY, ASSIGNOR TO FARBENFABRIKEN VORM. FRIEDR. BAYER & CO., OF ELBERFELD, GERMANY, A CORPORATION OF GERMANY.

AZO DYE.

993,020.

Specification of Letters Patent.

Patented May 23, 1911.

No Drawing.

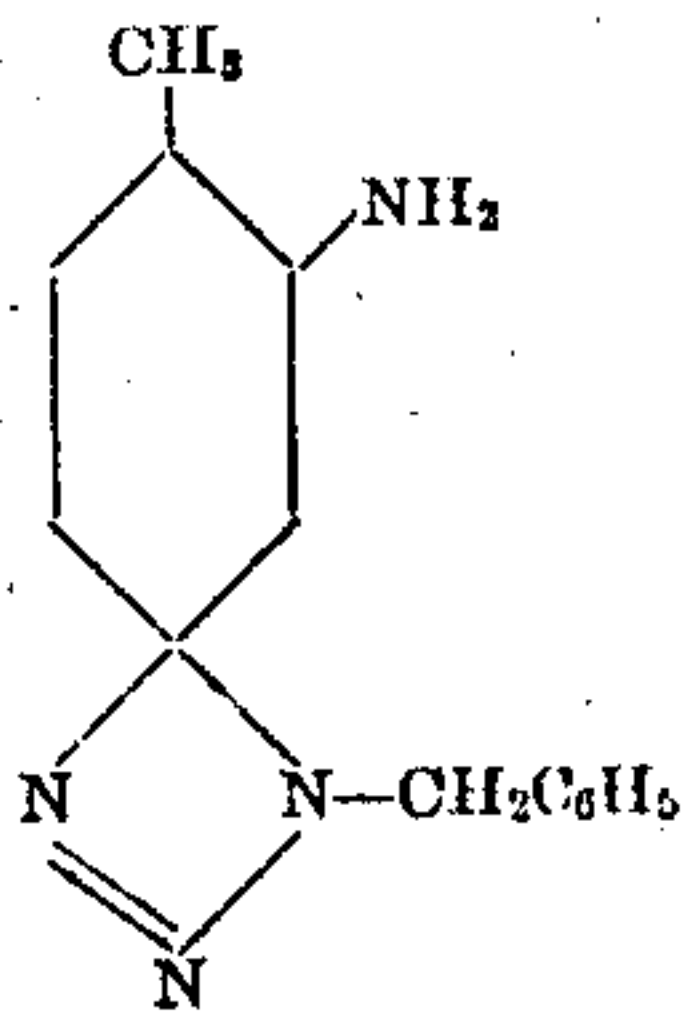
Application filed February 9, 1911. Serial No. 607,610.

To all whom it may concern:

Be it known that I, KARL BRENZINGER, doctor of philosophy, chemist, citizen of the German Empire, residing at Leverkusen, near Cologne, Germany, have invented new and useful Improvements in New Dye, of which the following is a specification.

It has been found that the diazo compound of the benzylated azimino-ortho-toluidin can be combined with 2-aryl-amino-8-naphthol-6-sulfonic acid. The dye thus obtained is after being dried and pulverized a brown-black powder soluble in hot water. On being treated with stannous chlorid and hydrochloric acid it is split up into benzyl-azimino-ortho-toluidin and amino-2-aryl-amino-8-naphthol-6-sulfonic acid and dyes wool from acid baths brown shades, which after treatment with chromium compounds are fast to milling.

In order to illustrate the new process more fully the following example is given, the parts being by weight: 226 parts of the benzyl compound of azimino-ortho-toluidin:



are diazotized with sodium nitrite and hydrochloric acid. The diazo compound is then added with an excess of soda to a solution of 315 parts of 2-phenylamino-8-naphthol-6-sulfonic acid. After some time the combination is complete. The dystuff is isolated in the usual manner. It dyes wool from acid bath a beautiful brown shade, which after chroming becomes fast to milling.

I claim:—

The herein described azo-dye obtainable from benzyl-azimino-ortho-toluidin and 2-aryl-amino-8-naphthol-6-sulfonic acid, which is after being dried and pulverized a dark brown powder soluble in water, yielding upon reduction with stannous chlorid and hydrochloric acid benzylazimino-ortho-toluidin and amino-2-aryl-amino-8-naphthol-6-sulfonic acid; and dyeing wool from acid bath a brown which is fast to milling after chroming, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

KARL BRENZINGER. [L. s.]

Witnesses:

CHAS. J. WRIGHT,
ALFRED HENKEL.