(No Model.)

J. ARCHER.

DOCTOR EMPLOYED IN THE PRINTING OF TEXTILE FABRICS.

No. 447,126. Patented Feb. 24, 1891.

FIG. 1.

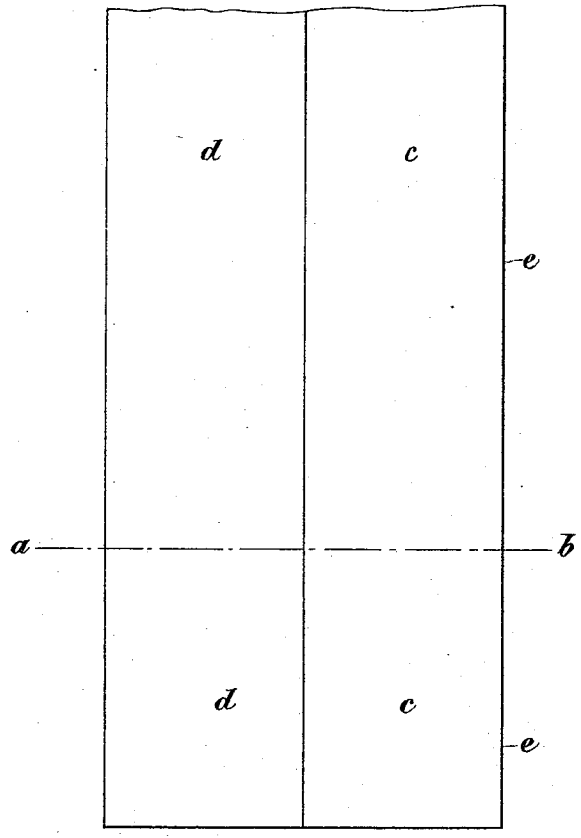

FIG. 2.

Witnesses.
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George Baumann

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By his Attorneys
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UNITED STATES PATENT OFFICE.

JOHN ARCHER, OF RADCLIFFE, ENGLAND.

DOCTOR EMPLOYED IN THE PRINTING OF TEXTILE FABRICS.

SPECIFICATION forming part of Letters Patent No. 447,126, dated February 24, 1891.

Application filed September 12, 1890. Serial No. 364,740. (No model.) Patented in England November 13, 1889, No. 18,145.

To all whom it may concern:

Be it known that I, JOHN ARCHER, a subject of the Queen of Great Britain and Ireland, and residing at Radcliffe, in the county of Lancaster, England, have invented Improvements in Doctors Employed in the Printing of Textile Fabrics, (for which a patent has been granted to me in Great Britain, No. 18,145, dated November 13, 1889,) of which the following is a specification.

The object of this invention is so to construct a doctor employed in the printing of textile fabrics that its front or acting edge shall be stiffer than heretofore and capable of riding over a wider surface of the engraved roller without dipping in and so injuring the roller and unduly removing the coloring-matter from those parts. My improved doctor, also, will not require to be more heavily weighted than the thinner doctors hitherto employed.

On the accompanying drawings, Figure 1 is a plan view of a portion of a doctor made according to my invention; and Fig. 2 is a transverse section of the same, taken through the line *a b* on Fig. 1.

In performing my invention I construct my improved doctor at its front part and throughout the length of the blade of two thicknesses of steel, brass, or other suitable metal laid one upon another, as indicated by the letters *c* and *d*, and soft soldered or brazed together. In this manner I secure great strength and stiffness at the front or acting edge *e* of the doctor, while at the same time I obtain the same elasticity and suppleness of a thinner plate at the back part of the doctor.

In practice I find that a doctor-blade constructed as aforesaid is better supported by the entire engraved surface of the roller than heretofore. This compounding the thickness of a doctor-blade also renders such blade more durable by virtue of the greater thickness of metal presented for being filed down from time to time.

As a modification of my invention I sometimes construct my improved doctor-blade out of a single solid sheet of metal of the desired thickness to form the front edge and by cutting or grinding the back part of the blade down to the degree of thinness required to afford the necessary elasticity or suppleness of that part.

I claim as my invention—

An improved doctor made thick at the extreme front or acting part and throughout the length of the blade to insure strength and stiffness and thin at the back part to insure its elasticity and suppleness, substantially as hereinbefore described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN ARCHER.

Witnesses:
CHARLES A. DAVIES,
JNO. HUGHES.