

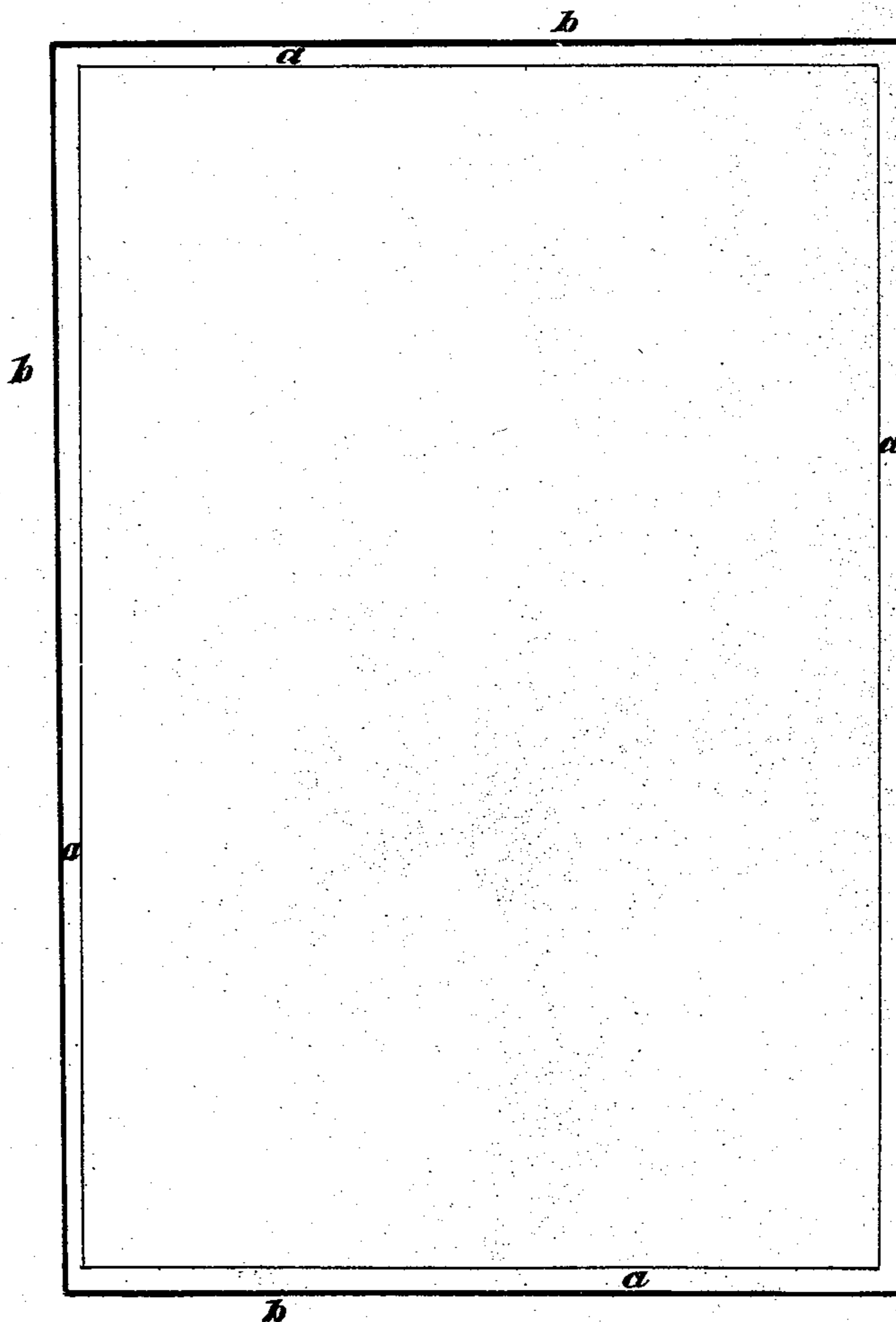
(No Model.)

R. SPURGIN.
LETTER PRESS COPYING CLOTH.

No. 506,610.

Patented Oct. 10, 1893.

Fig. 1.



Witnesses;

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UNITED STATES PATENT OFFICE.

ROBERT SPURGIN, OF CHICAGO, ILLINOIS.

LETTER-PRESS COPYING-CLOTH.

SPECIFICATION forming part of Letters Patent No. 506,610, dated October 10, 1893.

Application filed January 7, 1893. Serial No. 457,688. (Specimens.)

To all whom it may concern:

Be it known that I, ROBERT SPURGIN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Letter-Press Copying-Cloths, which I desire to protect by Letters Patent, and of which the following is a specification.

The object of my invention is to obviate the difficulty experienced with the cotton copying-cloths heretofore most commonly used in the fact of their edges raveling or fraying after a short service; thus rendering them unsightly and troublesome, and, for these and other reasons, often soon unfit for further use.

My improvement consists of a rubber border applied to a rectangular piece of suitable cotton fabric, which border not only prevents the fraying of the cloth but also its tearing, except by special effort. Copying-cloths provided with a rubber border, as stated, may be thoroughly and constantly saturated with water without impairing the rubber or affecting its tenacity to the fabric, and they may also be wrung or treated in any way usual with ordinary copying cloths, leaving the rubber border and fabric intact. Unlike the ordinary copying-cloths, whose edges are raw and unprotected, my improved cloth will even withstand violent strains on, and direct efforts to tear, those parts, to which an ordinary cloth would often readily yield.

My improved copying-cloth is intended to be used in the same manner and for the same purposes as ordinary copying-cloths.

The figure represents a letter-press copying-cloth ten by thirteen inches reduced to one-fourth of that size.

a, a, a, a, indicate a rubber border as described.

b, b, b, b, indicate the extremities of the fabric, into which the rubber border is embedded.

In the manufacture of the improved copying-cloth, strips of unvulcanized rubber of suitable length, width and compound, being subjected to great heat and pressure, are deeply and firmly embedded into the edges of the cloth, producing a thin, soft but substantial rubber border covering, and being co-extensive with, the margins or edges of the piece of fabric so treated. Provision is made for securing a straight inner edge to the border, which is essential to the utility, finish and hence the commercial value of the improvement. Both the inside and outside edges of the border are capable of being trimmed straight and to a uniform width on all sides of the cloth, after the process above referred to.

The construction as described may be modified by omitting the rubber border from either or both of the longer sides, particularly when such side or sides of the fabric have a selvage. In every case, however, a rubber border would be embedded into the upper and lower edges of the cloth, which in no event would have a selvage.

Having thus described my invention, what I claim, and desire to protect by Letters Patent, is—

A cotton letter-press copying-cloth having a uniform border of soft, vulcanized rubber embedded into the texture of the fabric, all substantially as described and set forth.

ROBERT SPURGIN.

Witnesses:

WM. P. KEELER,
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