

(No Model.)

J. W. BURRIS.
BLANK BOOK.

No. 477,166.

Patented June 14, 1892.

Fig. 1.

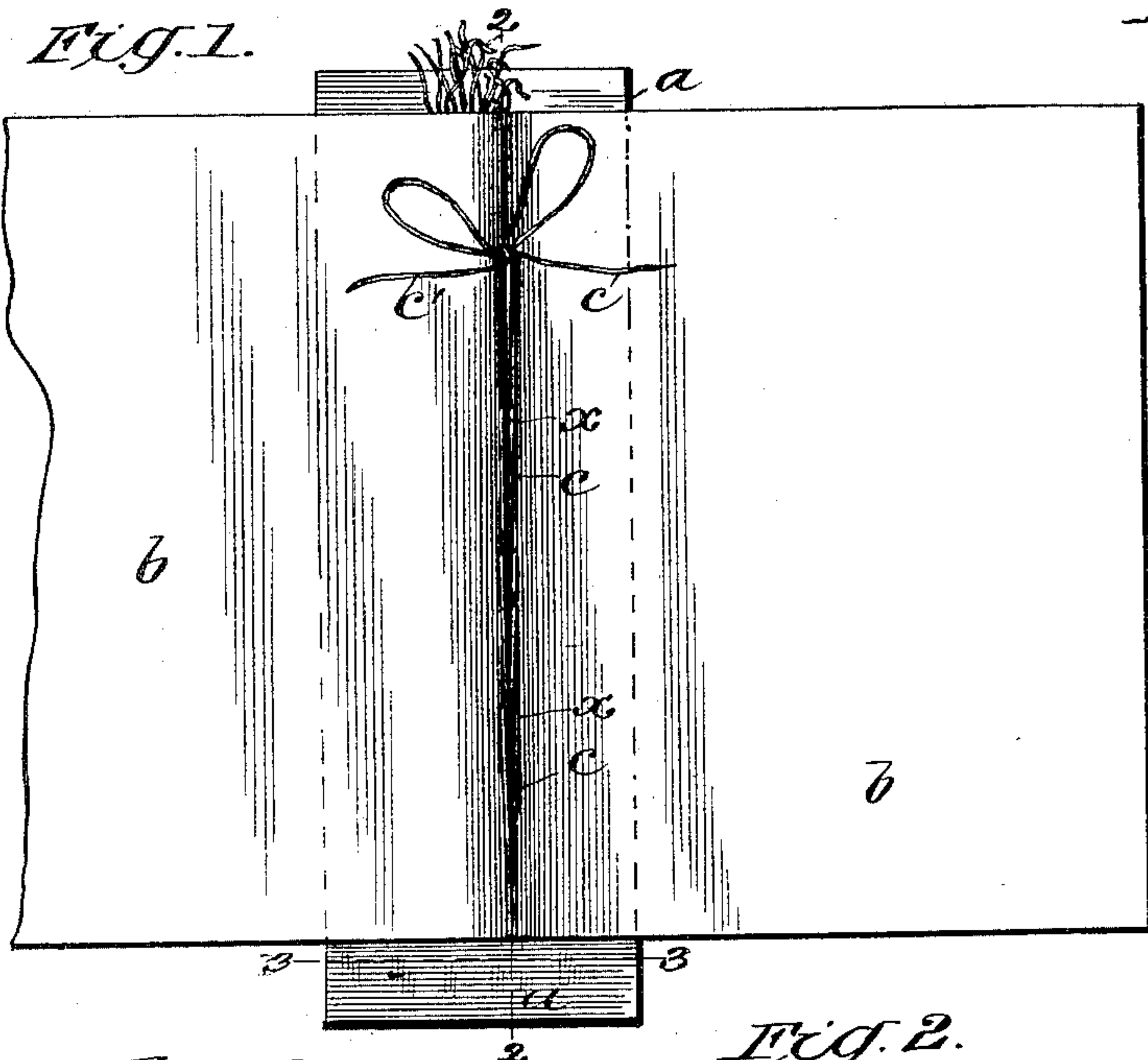


Fig. 5.

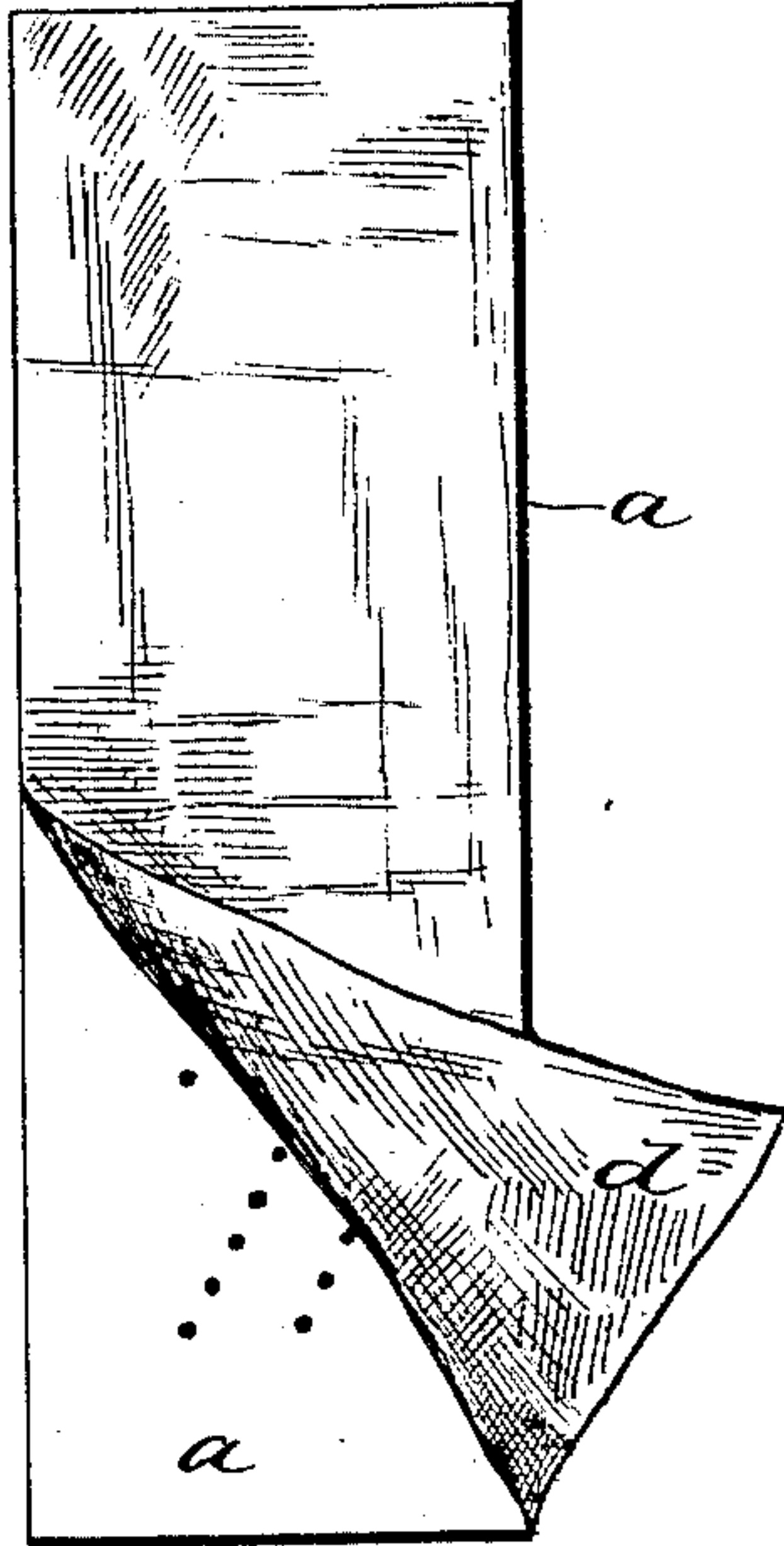


Fig. 3.

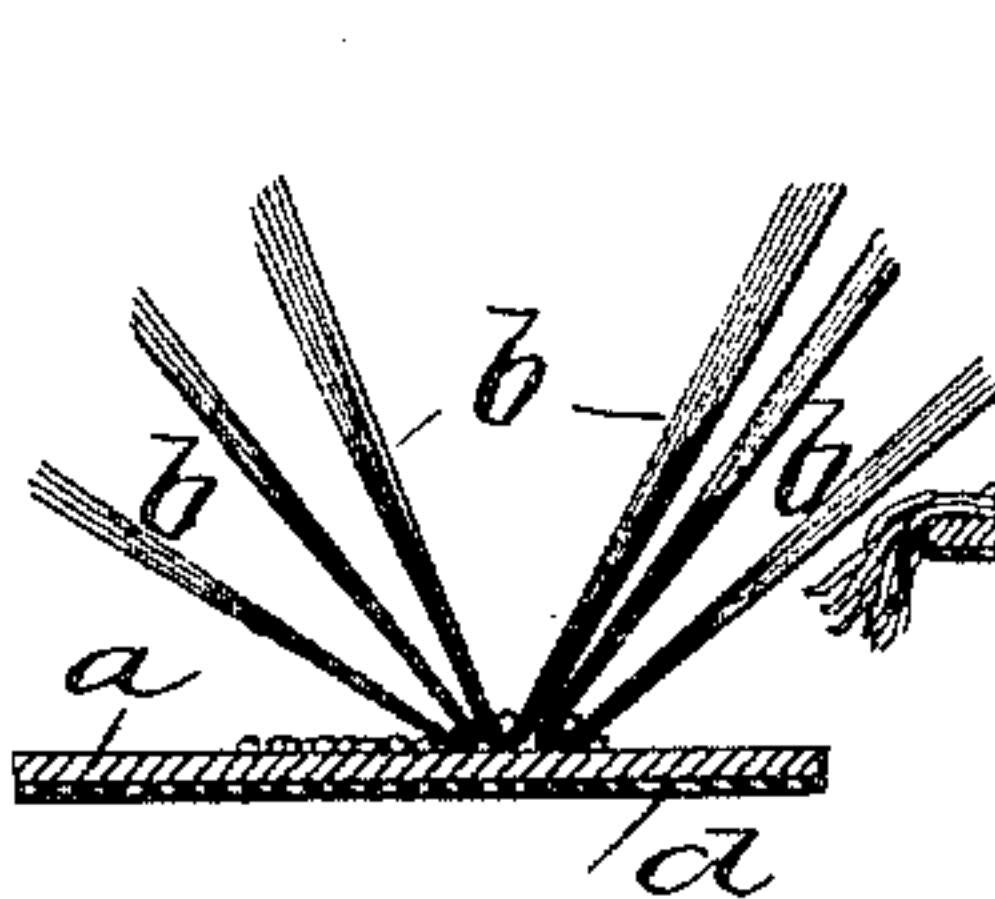


Fig. 2.

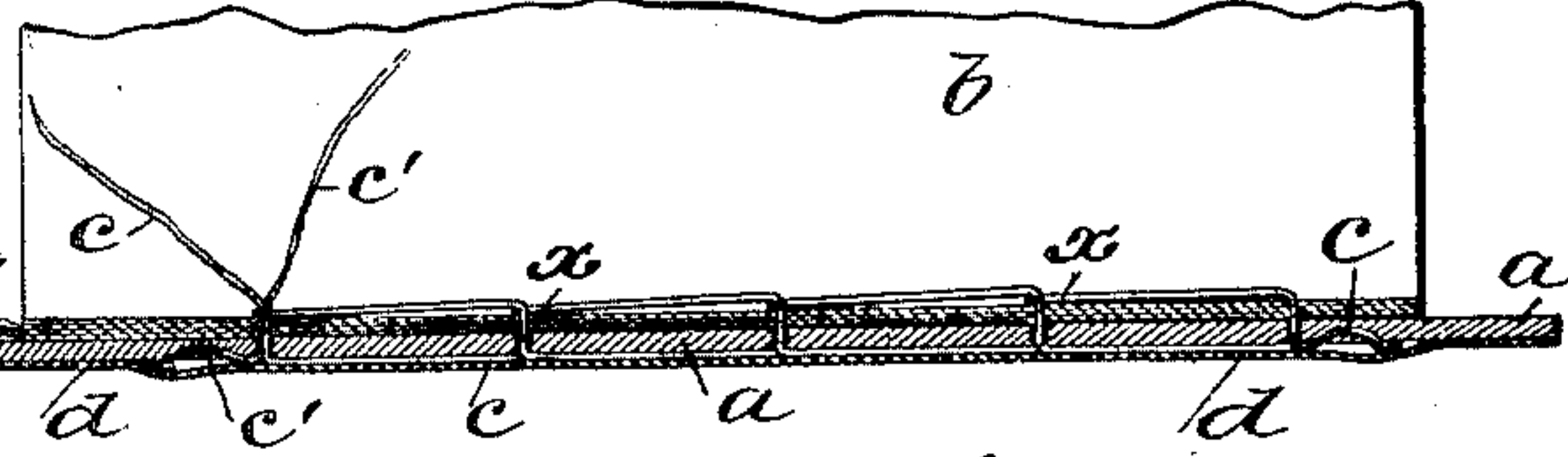


Fig. 4.

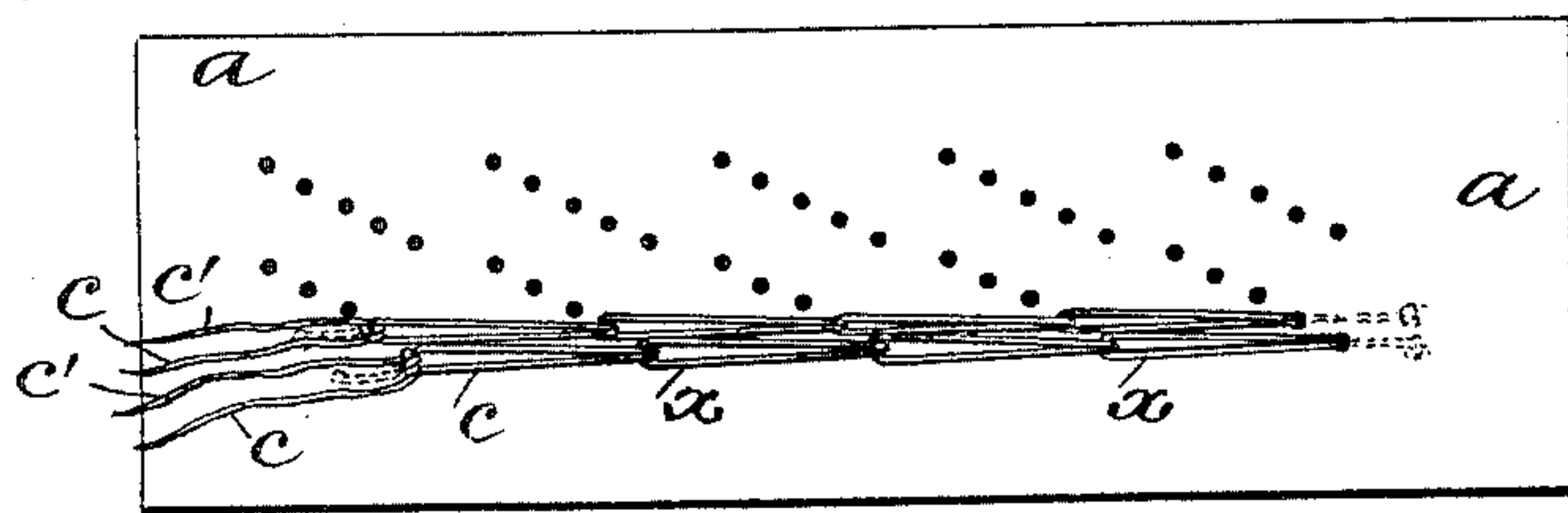
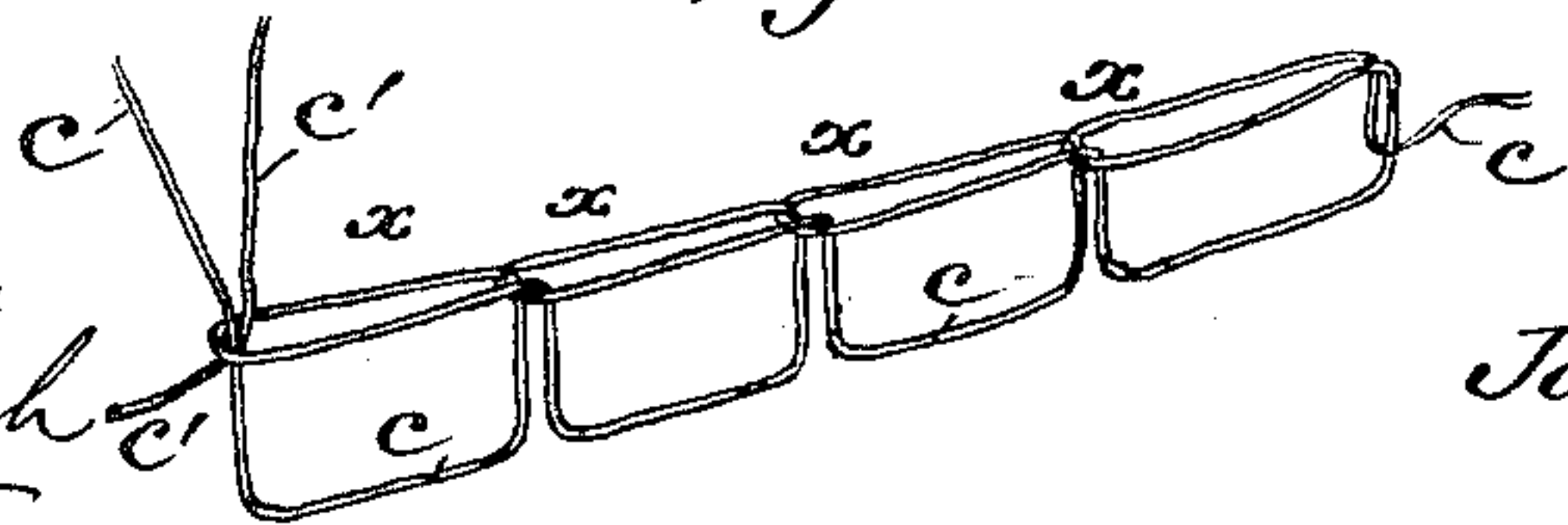


Fig. 6.



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JAMES W. BURRIS, OF UVALDE, TEXAS.

BLANK BOOK.

SPECIFICATION forming part of Letters Patent No. 477,166, dated June 14, 1892.

Application filed February 27, 1892. Serial No. 422,994. (No model.)

To all whom it may concern:

Be it known that I, JAMES W. BURRIS, residing at Uvalde, Uvalde county, and State of Texas, have invented a new and useful Improvement in Blank Books, of which the following is a specification.

My present invention is an improvement upon the blank book for which I have filed an application, Serial No. 400,650, dated July 24, 1891.

The principle of the improvement consists in securing blank sheets to a binding forming the back of the book in the manner hereinafter described, so that the attachment and detachment of the sheets may be conveniently effected. Thus I produce a blank book which is particularly adapted for use of type-writers and other copyists.

In the accompanying drawings, Figure 1 is a plan view of my improved blank book open. Fig. 2 is a central section on line 2 2 of Fig. 1. Fig. 3 is a cross-section on line 3 3 of Fig. 1. Fig. 4 is a top plan view of the backing for the blank sheets. Fig. 5 is a plan view of the outer side of such backing, and Fig. 6 is a perspective view showing the manner of looping the cord to secure the blank leaves to the backing.

In my former invention a single collection or pack of blank sheets was secured to a single, narrow, folded, and semi-rigid binding-strip, which lay normally in the same plane with the sheets, and a series of such separately-bound packs was assembled and arranged side by side and secured together by stitches, rivets, or other devices passing through or otherwise applied to said binding-strips. In the present invention I employ but one binding or backing piece in place of several which were before required to hold a number of packs. The invention is embodied in the form of such binder or backing piece and the manner of applying to it the cords or equivalent means required for securing the individual sheets of each pack together and for attaching the several packs to the backing.

In the drawings, *a* indicates the flat oblong backing-piece to which the packs *b* of folded blank sheets are secured by means of cords or strings or even wires *c c'*. Leather is preferably employed for the backing *a*; but can-

vas or any other material suitable for the purpose may be substituted.

To prepare the backing *a* for application of the cords, a series of parallel lengthwise rows of perforations is made in it, the several perforations of each row being equidistant and exactly coinciding with the perforations in the packs of sheets. It will be noted, however, that the perforations of one row are not opposite to or do not coincide transversely with those of the adjacent row or rows, but are arranged upon the "break-joint" principle. In other words, each row of perforations begins and ends at a point slightly removed in a diagonal direction from the terminals of the adjacent row or rows, by which arrangement I avoid weakening the backing, as would be the case if the perforations of the several rows were all in transverse alignment. Each cord *c* is secured at one end to the back of piece *a* and then passed, successively, through each perforation of a row and back again to form a series of loops *x*, or, otherwise stated, the cord *c* is formed into a series of loops *x*, which are drawn through the perforations in the backing *a*. Then, in order to secure a pack of sheets to said backing, the several loops *x* are drawn through the sheets and also interlocked on the inner side of the same. Thus the second loop of a series is passed through the first, the third through the second, and the fourth through the third, and so on, the cord *c* being in each case drawn taut, so that the whole series of loops *x* lie flat, and thereby tie the sheets closely and firmly together. At the upper end of the series of loops *x* the free end of the cord *c* is tied to another *c'*, (see Figs. 2 and 6,) which is secured on the back of the binder *a* and passed through the last one of the row of perforations in the pack of sheets.

In order to protect the portions of the cords appearing on the back of the binder *a*, I apply to it a protecting-piece *d*, of thin muslin or leather, as shown. It is preferably secured by some cementitious or adhesive substance.

The binder or backing piece *a* may be furnished to type-writers and other copyists for use with packs of sheets which they may perforate in a suitable manner. In such case the loops *x* of each series may be kept inter-

locked, as shown in Fig. 6, and the free ends of the cords *c c'* kept tied together. If it is desired to secure a pack or packs of written sheets, then they (the sheets) will be disconnected and passed through the holes in said pack or packs and again interlocked and tied, as before described, or the backing *a* may be sold with a complement of packs of blank sheets attached and ready for use. Then when it is desired to print the sheets of a pack they will be detached, and after having been filled they will be reattached in the same manner as before.

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

1. As the improvement hereinbefore described, the backing-piece or binder *a* for blank sheets, the same being flat in form and having a series of parallel lengthwise rows of aligned perforations, and a series of cords passing through such perforations and forming a series of loops which interlock, as shown and described.

2. A binder or backing-piece for blank books, having a series of parallel rows of per-

forations and a corresponding series of cord loops drawn through them, the several perforations of adjacent rows being arranged out of transverse alignment with each other, as shown and described.

3. The combination, with a series of collections or packs of sheets, of a flat flexible binder or backing-piece having a series of parallel lengthwise rows of perforations and a like series of cord loops which pass through coincident holes in the several packs, the perforations of adjacent rows being in diagonal and not transverse alignment, as shown and described, for the purpose specified.

4. As an improved article of manufacture, the flat flexible binder or backing-piece for a series of packs of blank sheets, the same having a series of parallel lengthwise rows of perforations, those perforations which are in adjacent rows being in diagonal but not transverse alignment, as shown and described, for the purpose specified.

JAMES W. BURRIS.

Witnesses:

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