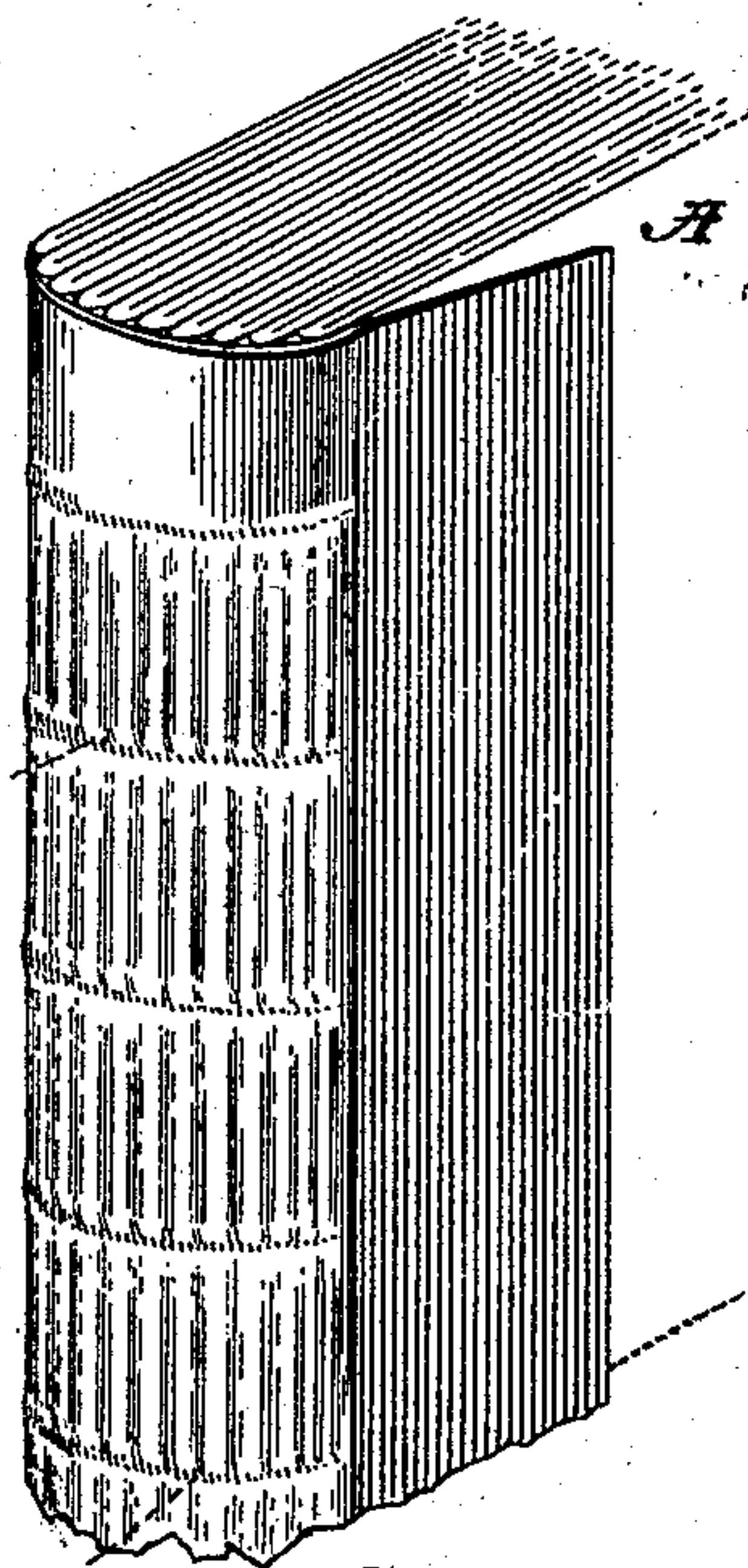
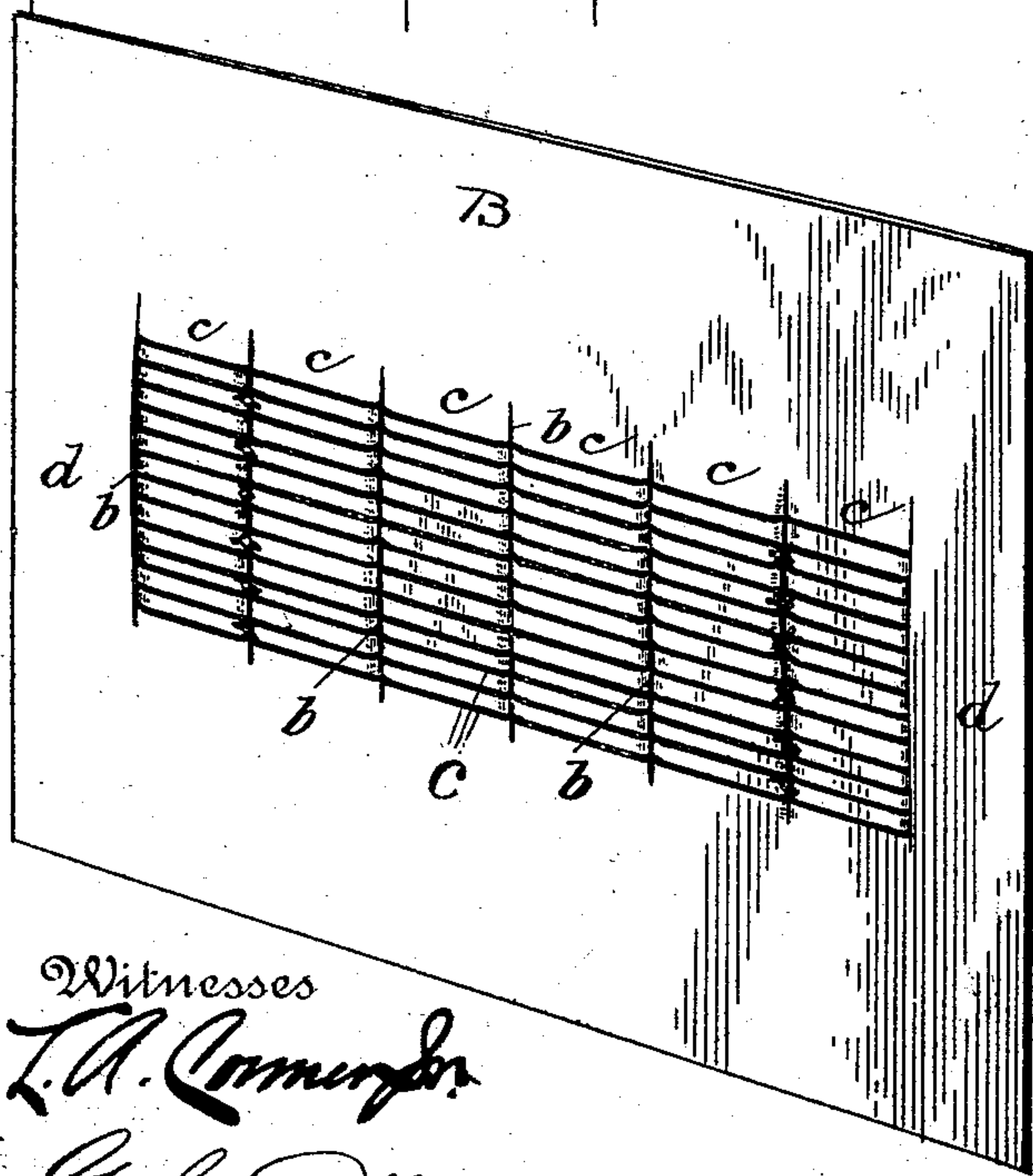
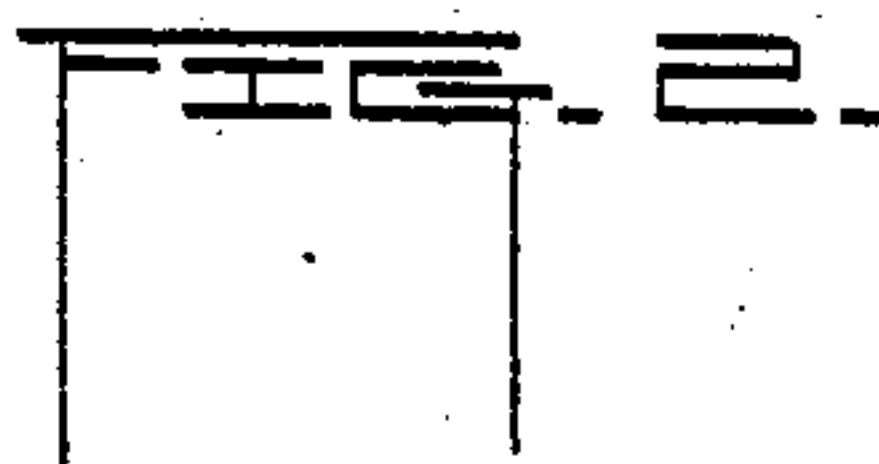
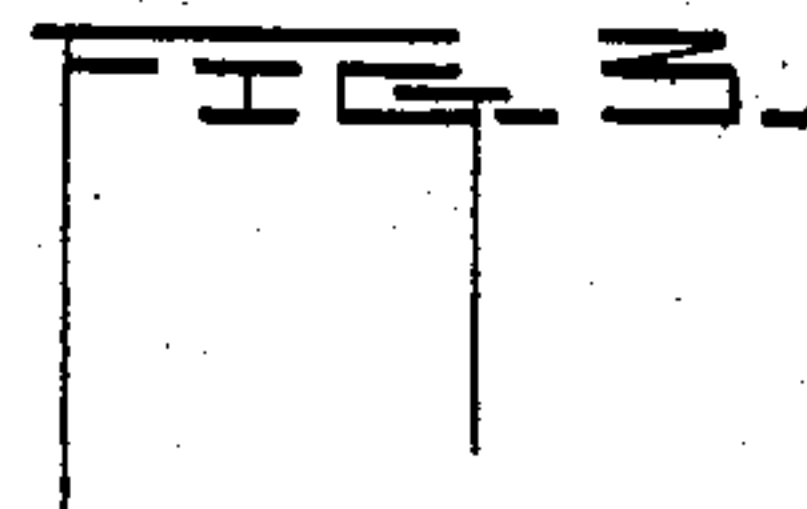
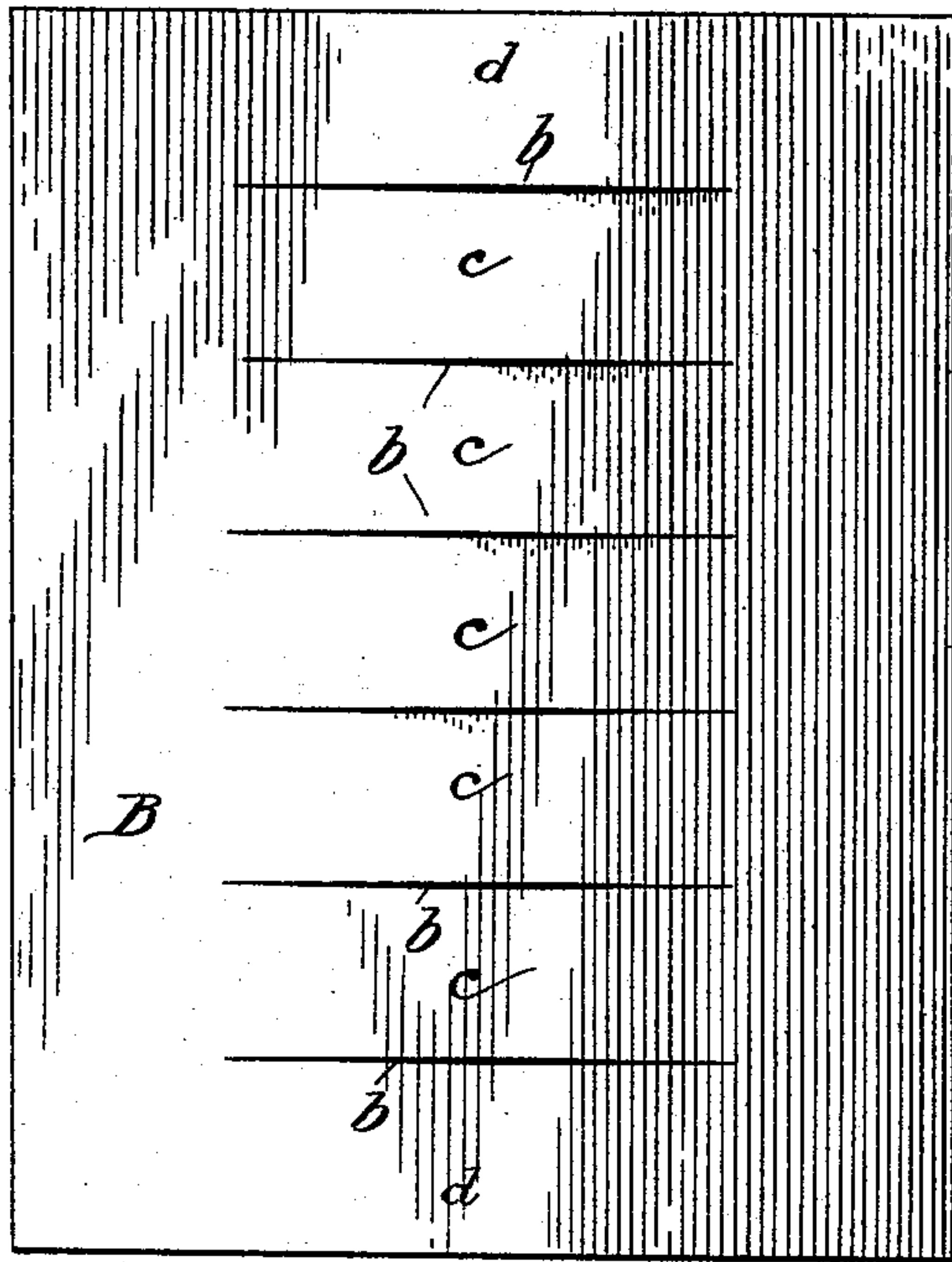
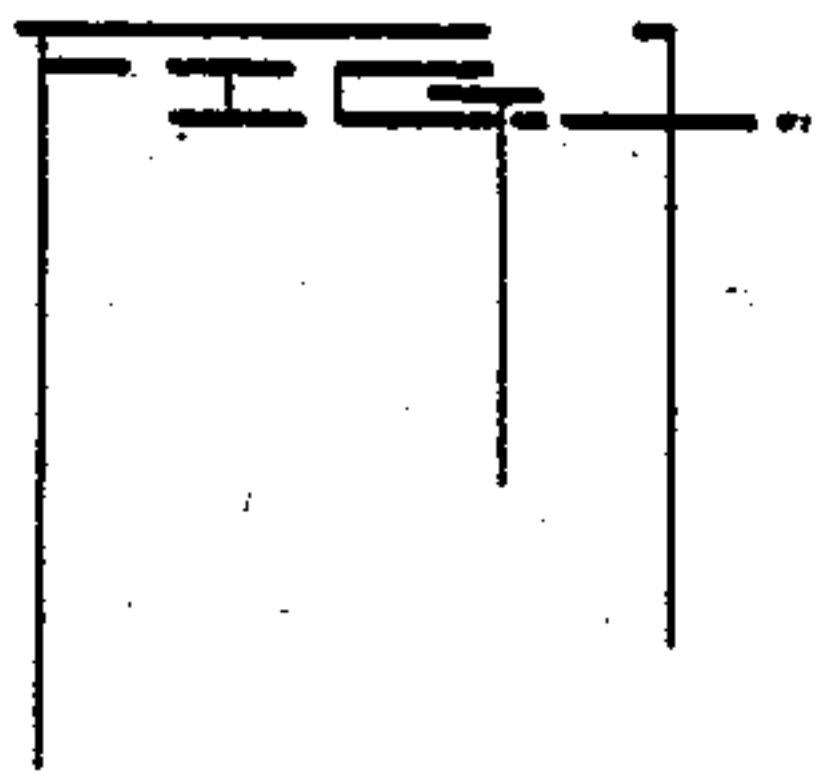


(No Model.)

A. H. KELLY.
BINDING FOR BOOKS.

No. 506,512.

Patented Oct. 10, 1893.



Witnesses
L. A. Comings
Gales P. Moore

Inventor
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his Attorney

UNITED STATES PATENT OFFICE.

ALBERT H. KELLY, OF SALT LAKE CITY, UTAH TERRITORY.

BINDING FOR BOOKS.

SPECIFICATION forming part of Letters Patent No. 506,512, dated October 10, 1893.

Application filed December 31, 1892. Serial No. 456,929. (No model.)

To all whom it may concern:

Be it known that I, ALBERT H. KELLY, a citizen of the United States, residing at Salt Lake City, in the county of Salt Lake and Territory of Utah, have invented certain new and useful Improvements in Bindings for Books, of which the following is a description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention is an improvement in the art of book binding, particularly the manufacture of those books which, when open, present a flat surface, and has for its object to facilitate the operation of binding, at the same time producing a book of great strength and flexibility.

It consists, primarily, in substituting for the usual independent sewing bands or integral web, a piece of fabric having slits made therein, thus forming in the same a plurality of bands; and further, in various details of construction and arrangements of parts, all as will be hereinafter described and claimed.

In the accompanying drawings which illustrate my invention, Figure 1 is a view of my improved web. Fig. 2 is a view of the web with several signatures attached thereto; and Fig. 3 is a view of a book without the cover made in accordance with the present invention.

In the drawings, A represents the signatures, which are formed in any well known manner, and provided with the usual saw cuts, though, of course, it will be understood that, if desired, the cuts may be dispensed with. Hitherto it has been customary to secure the signatures to independent bands of parchment, or like material, and then attach these bands to the cover; while in other cases, the signatures have been sewed to an integral web. Both of these methods are, however, open to some objections,—*e. g.*, one or more of the sewing bands may become disengaged from the cover, thus leaving without sufficient support that part of the book which is attached to these loosened bands; in the use of the integral web, difficulty is experienced in inserting the needle at points to correspond with the saw cuts, particularly in those cases in which the cuts in the several signatures are placed out of line with one another. To

obviate these difficulties and to secure certain other advantages, as will be hereinafter demonstrated, I provide as a substitute for the sewing bands in the one case, and the integral web in the other, a piece of suitable material B provided with a series of cuts, *b*, arranged to correspond with the saw cuts in the backs of the signatures, and extending to within some little distance of the edges of the fabric, thus forming the bands, *c*, and, *d*. For the backing fabric B I may, for example, employ white leather or common flesher, either alone or lined with a strengthening substance, as muslin, or, if desired, strips may be cut from the scraps of leather, and then secured to a background of muslin or the like. The fabric having been prepared, may, then, together with the signatures, be placed in a sewing frame, and the signatures sewed thereto by passing the threads C around the straps, *c*, the cuts, *b*, accurately guiding the operator. The book is then pressed, and after covering the stitches with muslin or other suitable material, thereby securing them in place, as well as fastening down the tongues, *d*, which are not caught by the thread, the cover is attached.

In a book of the character above described many advantages are secured. As before stated, the cuts, *b*, serve as accurate guides to the operator, while the bands, *c*, being secured together by the uncut parts of the fabric, are so bound to the cover that anything like the slipping of sewing bands is made impossible. In addition to this, great flexibility at the sewing points is gained, for while in the use, *e. g.*, of an integral web, the back of a signature is rigidly bound to this web at the line of stitching, in my present invention the fact of the threads encircling tongues which cannot be pulled out from them, makes it possible to allow just enough play to permit the flat opening of the book.

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

1. A book comprising a backing strip, composed of a piece of fabric having bands formed therein by means of intervening slits, and signatures secured to said bands; substantially as described.

2. A book comprising a backing strip, com-

posed of a piece of fabric having bands formed therein by means of intervening slits, signatures secured to said bands, and an additional piece of fabric secured over said bands; substantially as described.

3. A book comprising signatures provided with saw cuts, a backing strip composed of a piece of fabric provided with cuts corresponding to the saw cuts in the signatures, and se-

curing means passed through the saw cuts and the cuts in the backing, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ALBERT H. KELLY.

Witnesses:

ROBERT WENDT,
HARRY HART.