

(No Model.)

F. BOWMAN.
BLANK BOOK.

No. 467,788.

Patented Jan. 26, 1892.

Fig. 1.

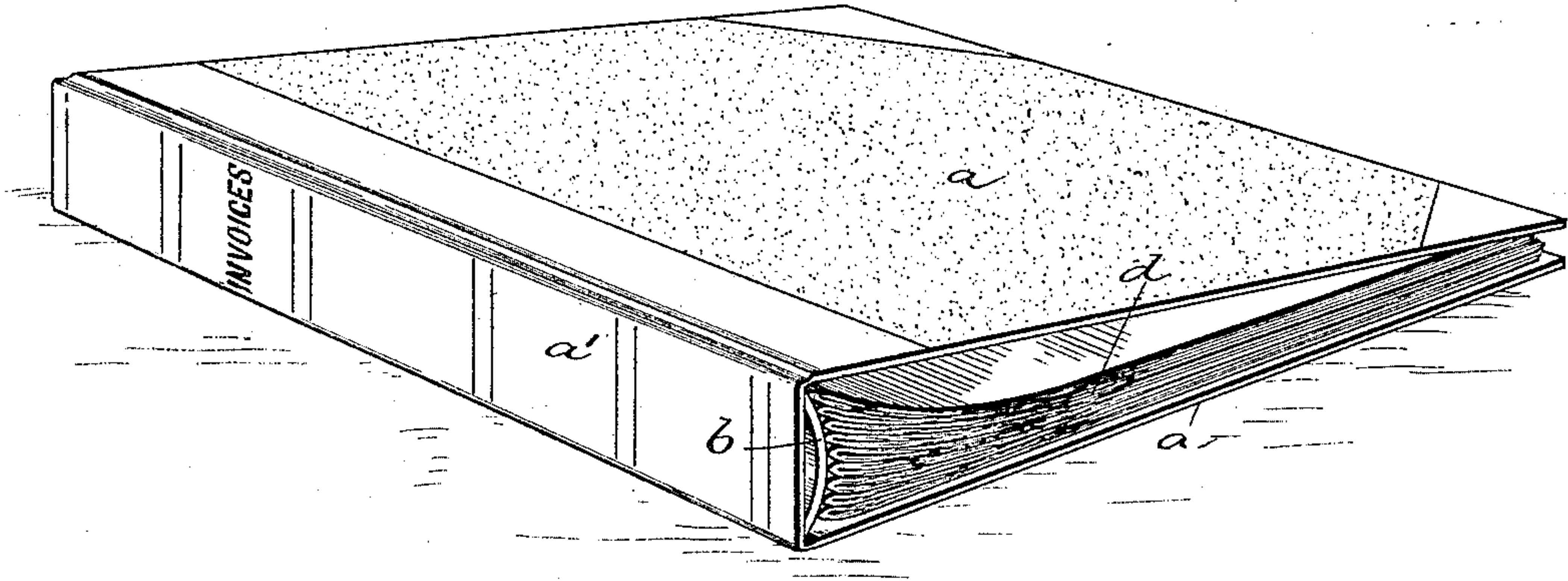


Fig. 2

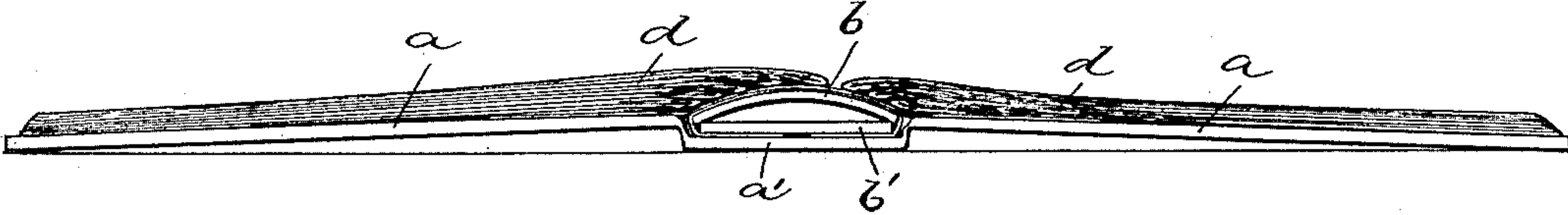
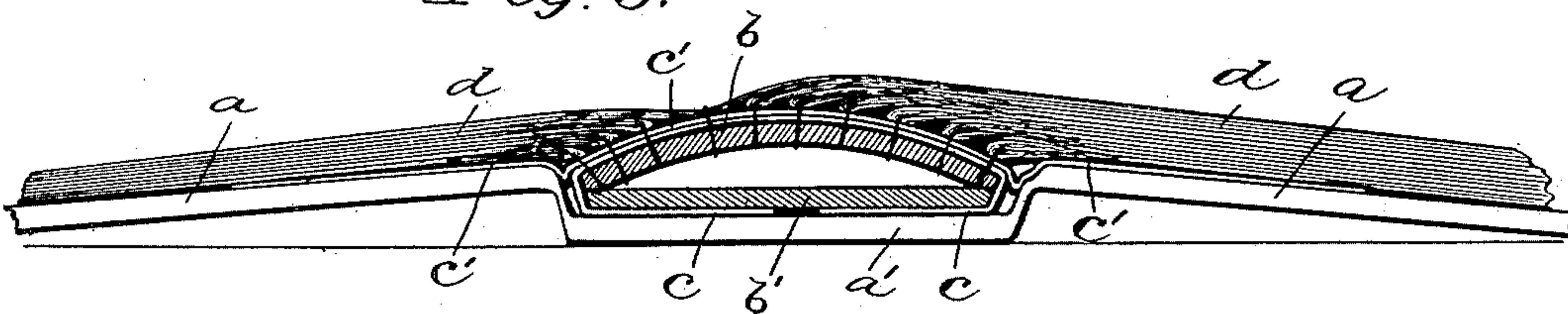


Fig. 3.



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FRANK BOWMAN, OF BROOKLYN, NEW YORK.

BLANK BOOK.

SPECIFICATION forming part of Letters Patent No. 467,788, dated January 26, 1892.

Application filed November 9, 1891. Serial No. 411,300. (No model.)

To all whom it may concern:

Be it known that I, FRANK BOWMAN, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Blank Books, of which the following is a specification, reference being had therein to the accompanying drawings, in which—

Figure 1 represents a perspective view of my improved book; Fig. 2, an end elevation thereof, showing it opened; and Fig. 3, an enlarged transverse sectional view of the back.

This invention has relation more particularly to that class of blank books wherein the signatures are sewed or stapled to the back-strip suitable distances apart to enable them to be employed as invoice-books, scrap-books, &c.; and it has for its objects to provide a very strong and rigid back for the attachment of the signatures and which will afford a firm support therefor and strengthen the book generally, as will more fully hereinafter appear.

Referring to the drawings, *a a* designate the covers, flexibly united to the outer back-strip *b* in the usual manner. The inner back consists of the stiff convex strip *b*, secured to a flat stiff strip *b'*. The under concave side of the convex strip is secured to the upper side of the lower strip *b'*, the edges only of the two strips touching each other, thereby forming a space between the two strips extending the full length of the book. The two strips are bound together by a strip of strong fabric *c*, which entirely envelops them and is securely pasted or otherwise secured around them. The edges of the two strips *b b'* may also be secured together by glue or otherwise to further strengthen the back. The inner back thus formed is secured in the book by having its under side firmly glued or otherwise secured to the inner side of the outer back *a'*. The back is further secured by a strip of fabric *c'*, glued on its upper convex surface and having its edges extending over and glued on the adjacent inner edges of the covers, this strip extending the full length of the book. The signatures are secured to the convex surface of the inner back by stitching, stapling, or otherwise, the means for securing them extending entirely through the two

fabrics *c c'* and the convex strip *b*, and thereby serving to materially assist in binding the parts together. In a book thus made the leaves will lie approximately flat at whatever page it may be opened without straining any of the parts. The back is very rigid and will withstand a large amount of rough usage. The convex strip is preferably permanently molded or pressed into shape before being attached to the under strip.

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

1. In a book, the combination, with an outer stiff back *a'* and the covers flexibly united thereto, of an inner back secured on the interior of the outer back and consisting of two rigid united strips *b b'*, the upper one of which is formed transversely convex, and signatures secured to the convex side of the upper strip, substantially as described.

2. In a book, the combination of an outer rigid back having covers flexibly united to its edges, an inner back secured on the inside of the outer back and consisting of two stiff strips rigidly united, a flexible fabric *c'*, extending over the upper strip of the inner back and the inner edges of the covers and glued thereto, and signatures secured to the inner back, substantially as described.

3. In a book, the combination of an outer back and the covers united flexibly thereto, the inner back consisting of the lower flat stiff strip *b'* and the upper stiff convex strip *b*, these strips being secured together by an enveloping fabric *c*, a flexible fabric *c'*, glued over the convex surface of the inner back and the inner edges of the covers, and signatures secured to the convex surface of the inner back, substantially as described.

4. An inner back for blank books, consisting of two rigid strips *b b'*, the lower one being flat and the upper one permanently convex, and an enveloping fabric for securing said strips together, substantially as described.

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

FRANK BOWMAN.

Witnesses:

ARTHUR S. MICHEL,
GEO. W. SCHWAGERL.