

No. 668,804.

Patented Feb. 26, 1901.

C. K. ROSENBERG.
TEMPORARY BINDER.

(Application filed Mar. 27, 1899.)

(No Model.)

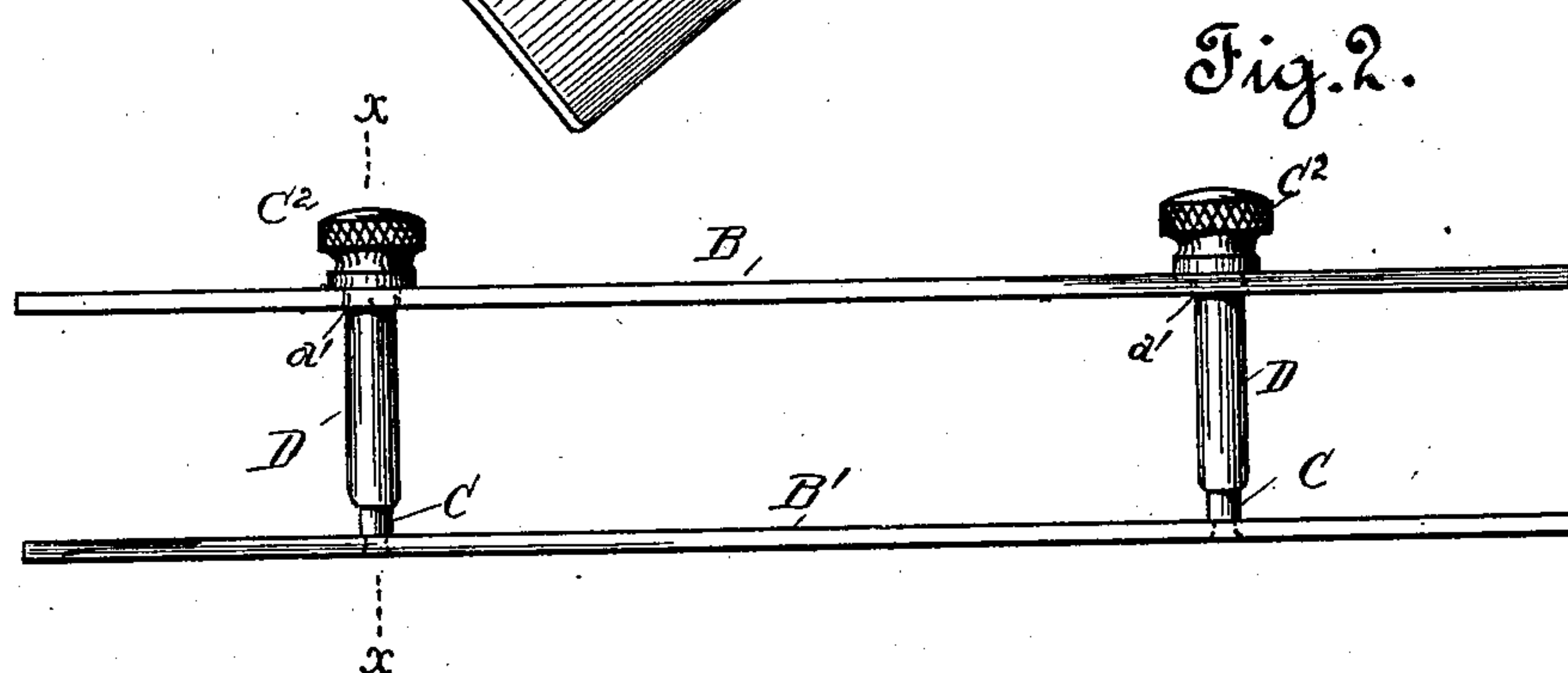
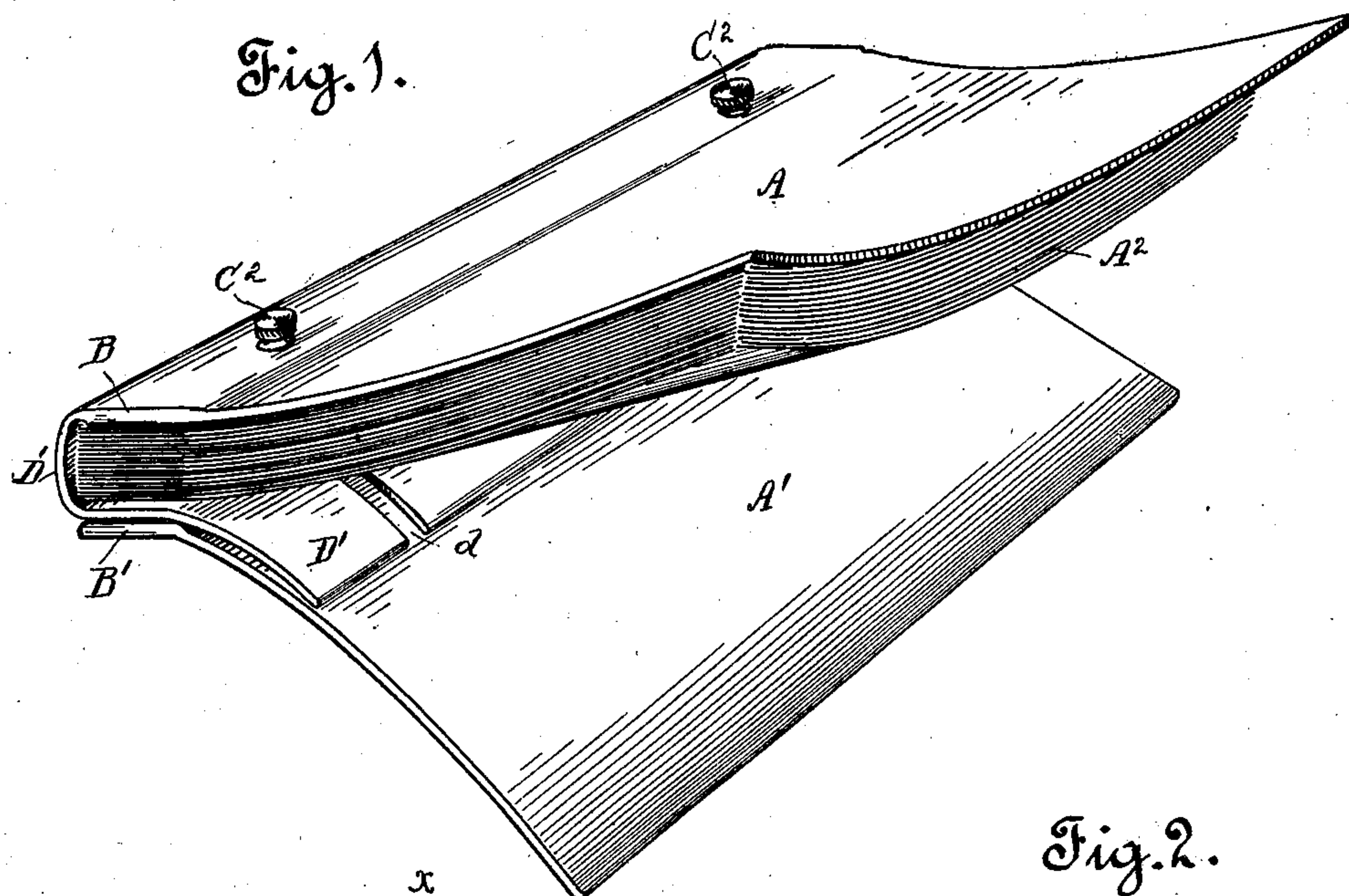


Fig. 3.

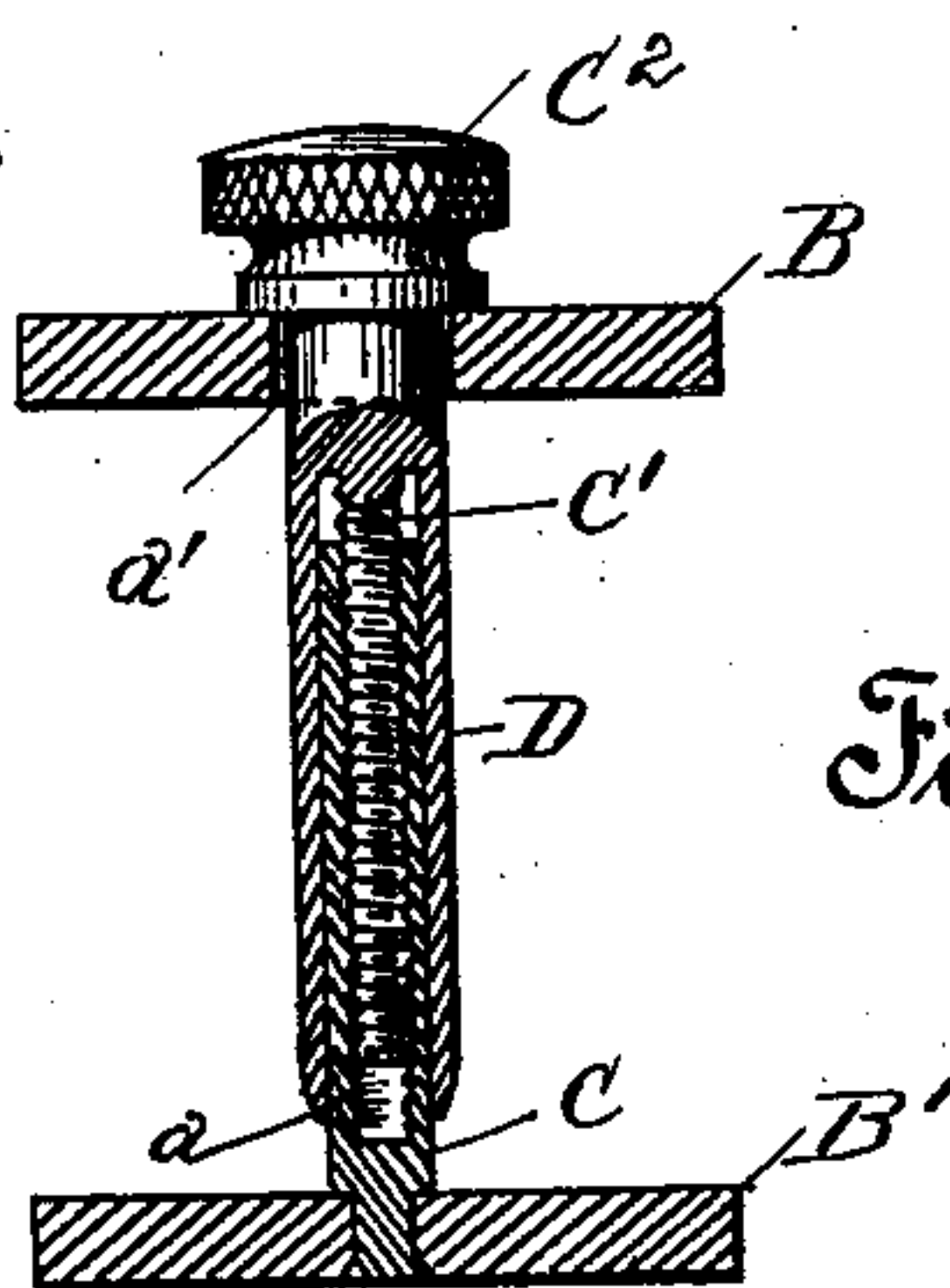
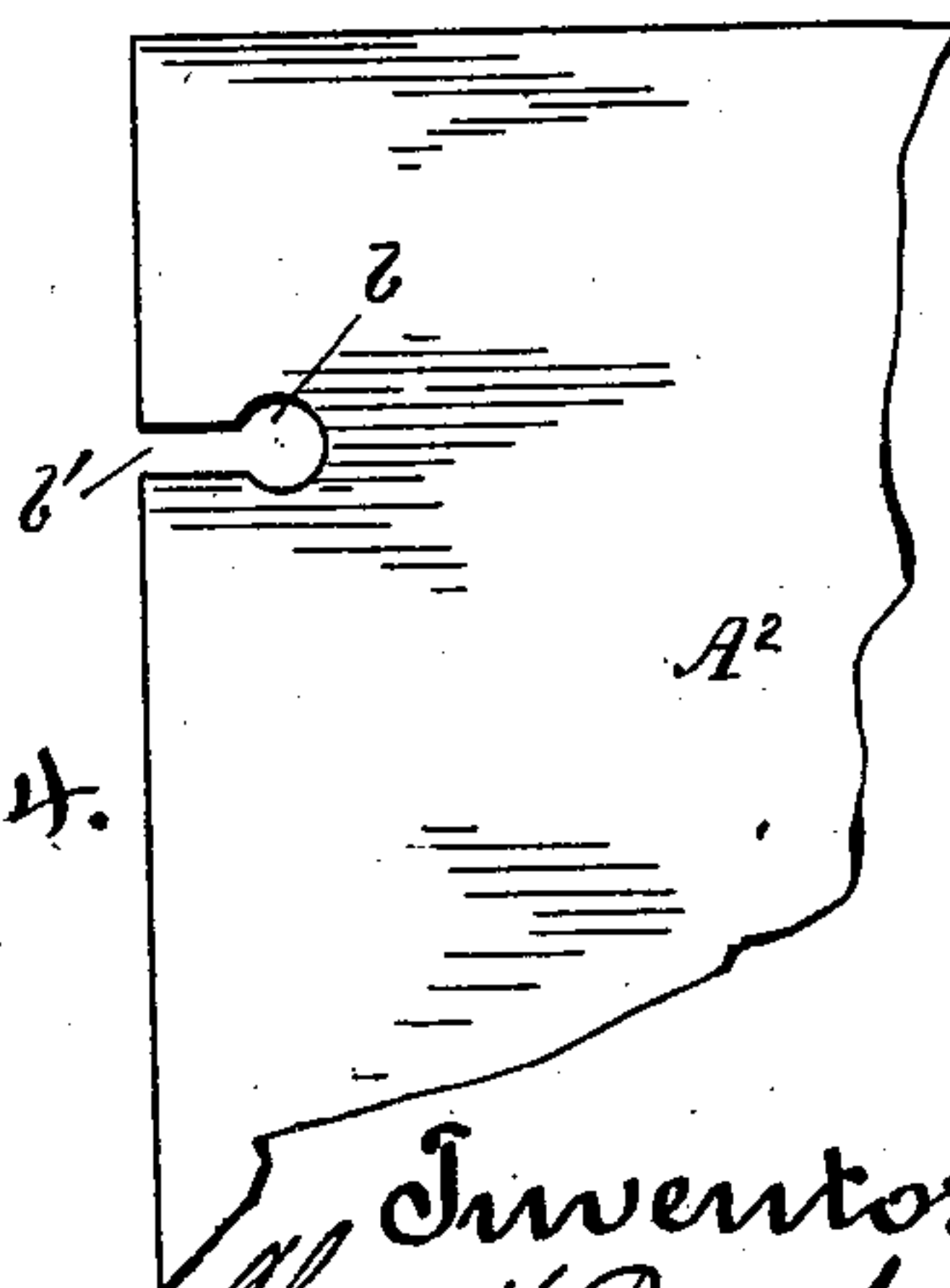


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

CHARLES K. ROSENBERG, OF SAN FRANCISCO, CALIFORNIA.

TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 668,804, dated February 26, 1901.

Application filed March 27, 1899. Serial No. 710,600. (No model.)

To all whom it may concern:

Be it known that I, CHARLES K. ROSENBERG, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Temporary Binders; and I do hereby declare that the following is a full, clear, and exact description thereof.

10 This invention relates to certain new and useful improvements in temporary binders, or what is more properly termed a "loose-leaf" account-book; and it consists in the arrangement of parts and details of construction, as will be hereinafter set forth in the drawings and described and pointed out in the specification.

The object of the invention is to provide simple means whereby the thickness of the 20 book or binder may be increased beyond its original thickness or normal size in order that extra leaves or pages may be inserted or arranged therein as desired and at the same time protecting the edges or perforated portion of the leaves from injury by coming 25 in contact with the screw adjusting mechanism; also, in providing for the release of the clamped or bound leaves, so as to permit any one or a number of leaves being removed as 30 desired, and for clamping of the binder in order to secure the leaves firmly in position.

In order to comprehend the invention, reference must be had to the accompanying sheet of drawings, forming a part of this application, wherein—

35 Figure 1 is a perspective view of the book or binder partially opened. Fig. 2 is a detail view of the presser or clamp plates with their adjusting mechanism. Fig. 3 is a detail sectional view taken on line *xx*, Fig. 2; 40 and Fig. 4 is a broken plan view of one of the leaves or pages.

In the drawings the letters A and A' are used to indicate the covers of the book or 45 binder, and A² the leaves arranged therein. Within or to the cover A is secured the presser or clamp plate B, and within or to the cover A' is secured a similar plate B'. These plates are constructed of thin metal 50 and of a length equal to that of the cover, and they serve to clamp or hold the leaves or pages between the covers when brought

together. Attached to and upwardly projecting from the presser or clamp plate B' are two hollow posts C, although a greater number may be employed, if found necessary. Each post is provided with the internal screw-threads *a*, which are engaged by the screw or worm C', attached to and preferably forming a part of the thumb-heads C². Each 60 screw is inclosed within a sleeve D, also attached to the head C². Consequently as the screw C' enters the hollow post C the sleeve D fits over the said post. These sleeves work through openings *a'*, formed through the 65 presser or clamp plate B and cover A, the thumb-heads bearing against the outer face of the cover or presser or clamp plate B. In order to permit of a firm hold being had upon the thumb-heads, the edge thereof is milled. 70

The inner end portion of each leaf or page A² is provided with perforations *b*, equal in number to the hollow posts C employed, and each perforation is slotted, as shown at *b'*, Fig. 4, so as to permit of the leaf being slipped 75 off of the posts when the pressure of the plates B and B' has been released. It will be understood that the diameter of the perforations *b* in the leaves is slightly greater than the diameter of the sleeves D, so that 80 the said sleeves may pass therethrough as raised or lowered upon the posts C.

In order to fill the book, the leaves are fitted over the posts C until the thickness thereof equals the height of the said posts, which may 85 be said to be the normal thickness of the book, which is of course dependent upon the length of the said posts. The cover A is then placed thereover and the sleeves D, carrying the screws or worms C', passed through the open- 90 ings in the cover and plate B until the screws or worms C' engage the interior screw-threads *a* of the said posts. The thumb-heads C² are then turned so as to screw the parts together, the sleeves D moving downward over the posts 95 until the heads C² bear firmly upon the cover or plate B. The leaves A² will then be tightly held or clamped between the plates B B', and in order to remove any one thereof it is necessary that the thumb-heads C² be given an 100 opposite turn in order to partially unscrew the parts, thus unclamping the plates B B' or releasing the pressure thereof upon the leaves, so as to permit the withdrawal thereof. As

the number of leaves are increased or added to the thickness of the book or binder is increased. This increase or extension is obtained by unscrewing the screws or worms C', which extends or increases the distance between the clamp-plates B and B'. The thickness of the book or binder may thus be increased or expanded a distance approximately equal to the combined length of the sleeves D and posts C. Of course it will be understood that as the leaves of the book are added to it it is necessary that the parts be disengaged for this purpose.

Inasmuch as the sleeves D at all times cover the screws or worms C', the edges of the leaves or pages are at all times protected from damage by contact therewith.

In order to give the appearance of a book, the cover A is provided or formed with a flexible back-piece D', which overlaps the cover A'. The overlapping portion of this back-piece has the slots or elongated openings d formed therein, which permits of the same sliding inward and outward upon the hollow posts C, so as to allow of the said back-piece being adjusted to an increased or decreased thickness of the book or binder.

While I have described the foregoing invention as used in connection with account-books, it is apparent that it is equally as well adapted for use as an album or binder for any given purpose.

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

1. In a temporary binder, the combination

with the presser or clamp plates, of hollow internally-screw-threaded posts having reduced ends riveted in perforations in one of said plates, and sleeves passing loosely through perforations in the other clamp-plate and telescoping over the said hollow posts, said sleeves having formed integrally therewith and within the same male screws screwing into said hollow screw-threaded posts, and also having formed integrally therewith annular shoulders adapted to engage the clamp-plate through which the sleeve passes, substantially as described.

2. In a temporary binder, the combination with the presser or clamp plates, of a flexible slotted back carried by one clamp-plate, hollow internally-screw-threaded posts having reduced ends riveted in perforations in one clamp-plate, and sleeves passing loosely through perforations on the other clamp-plate and telescoping over the said hollow posts, said sleeves having formed integrally therewith and within the same male screws screwing into said hollow screw-threaded posts, and also having formed integrally therewith operating-heads of larger diameter than the sleeves and adapted to engage the clamp-plate through which the sleeves pass, substantially as described.

In testimony whereof I affix my signature, in presence of two witnesses, this 15th day of March, 1899.

CHARLES K. ROSENBERG.

Witnesses:

N. A. ACKER,
WALTER F. VANE.