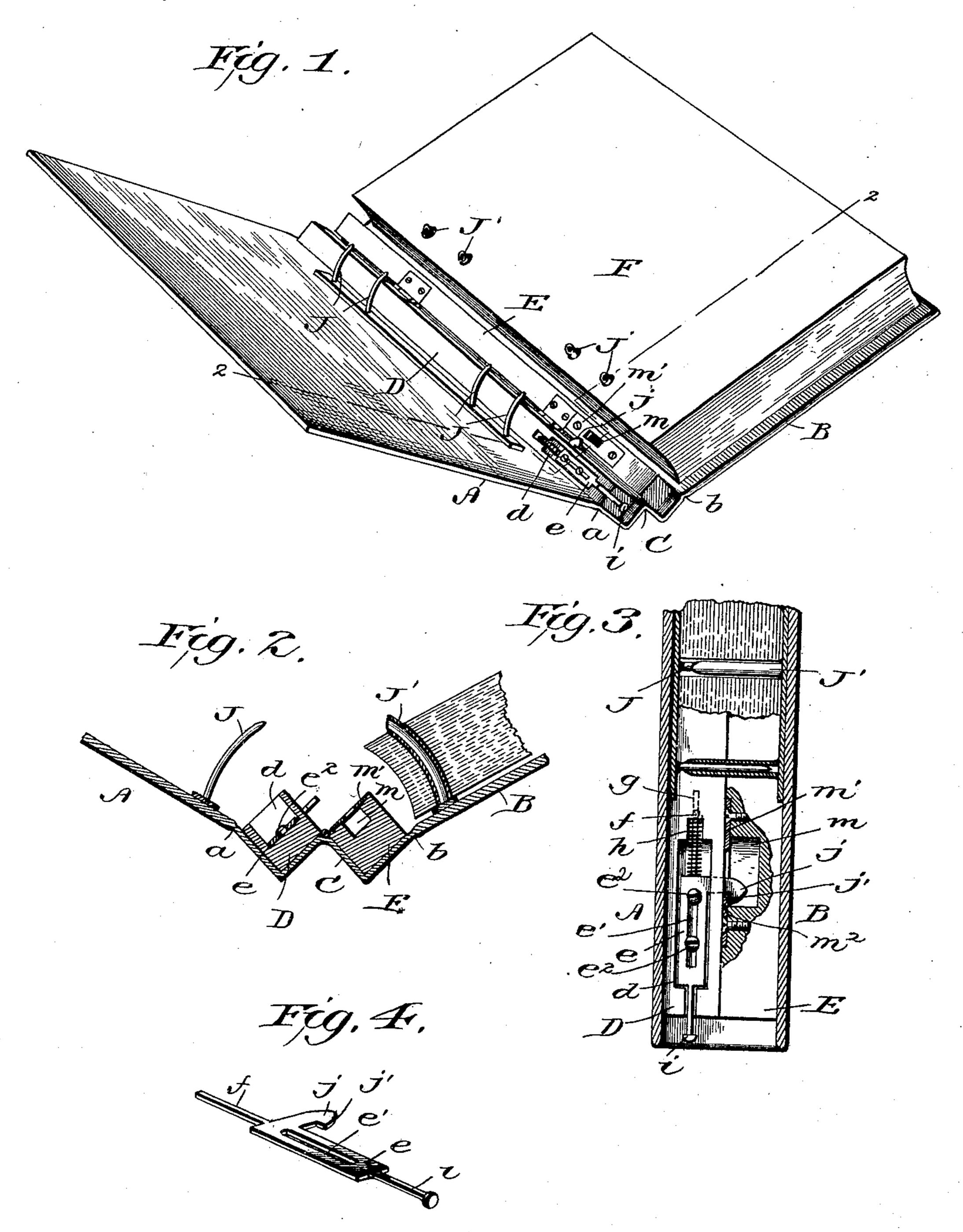
R. J. BUCHANAN. TEMPORARY BINDER.

(Application filed Jan. 8, 1901.)

(No Model.)



Witnesses Elloch Oll Ballock Robert J. Buchanan,

By his Attorneys,

Andrew Landson Myht.

UNITED STATES PATENT OFFICE.

ROBERT J. BUCHANAN, OF PITTSBURG, PENNSYLVANIA.

TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 683,019, dated September 24, 1901.

Application filed January 8, 1901. Serial No. 42,484. (No model.)

To all whom it may concern:

Be it known that I, ROBERT J. BUCHANAN, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and 5 State of Pennsylvania, have invented certain new and useful Improvements in Temporary Binders, of which the following is a specification.

The object of my invention is to provide a to temporary binder for loose sheets of paper, such as ruled sheets, adapted for the entry of memoranda or records of business transactions.

In carrying out my invention I provide a 15 cover comprising two flat pieces connected by a flexible back. Within the flexible back I secure two strips, to which I apply improved locking devices. Impaling-pins of improved construction are carried within the cover and 20 are adapted to receive loose sheets of paper which are perforated or provided with eyelet-holes adapted to pass over the pins.

In the accompanying drawings, Figure 1 is a plan view of the inside of a book-cover or 25 temporary binder with my improvements applied. Fig. 2 shows a transverse section therethrough on the line 22 of Fig. 1 with the cover partly closed; and Fig. 3 is a detail view in section, showing particularly the

30 locking devices employed. The cover consists of two stiff boards AB, connected by a flexible back C. The boards A B are hinged to the back at a b, and the back is provided with strips D E, to which the 35 locking devices are attached. The strip D is recessed at d, and within this recess is arranged a sliding bolt e. This is made flat and slotted at e'. Through the slot extend guide-screws e^2 , which hold the bolt against 40 the inner wall of the recess, but permit it to slide endwise. At its inner end the bolt is provided with a guide-spindle f, which enters a guide-socket g. A spring h moves the bolt outward toward the bottom of the book, while 45 the bolt may be moved inward against the | bers, A, B, the strips, D and E, the flexible force of the spring by a handle i. A laterally-projecting tooth j is attached to the

bolt, and this is adapted to engage devices

on the strip E. The strip E is provided with

a recess m, upon which is secured a slotted 50 plate m'. The tooth j is adapted to enter the slot and to engage with the plate at the lower end of the slot at the point m^2 . Preferably the tooth is inclined, so that the act of closing the strips DE by their handle causes the 55 lower end m^2 of the slotted plate to bear against the inclined end of the tooth j and cause the bolt to slide in such manner and sufficiently to enable the tooth to enter the slot and permit its locking end j' to enter be- 60 yound the plate m'. By this means the two strips are locked together. By pushing in the handle i the strips may be unlocked and swung back, as indicated in Fig. 2. The strips D E carry curved impaling-pins J J', 65 adapted to pass through perforations in the inner edges of the sheets F. When the cover is thrown open and the strips D E are in the position shown in Fig. 2, the sheets may be placed upon the impaling-pins.

When the book is closed and the strips D and E are brought together, they are locked by the devices hereinbefore described. After that the book may be opened and closed without separating the sheets, as after the lock- 75 ing devices are applied the covers are opened and closed along the lines of the flexible connections a and b. The impaling-pins are preferably of the form shown, the pins J being solid and the pins J' hollow. They are 80 of substantially the same length, and the pins J fit into the pins J', as shown in Fig. 3.

I claim as my invention— 1. The combination of the strips, D and E, the slotted plate secured to one of the strips, 85 the sliding bolt arranged in a recess in the other strip and having a slotted portion through which guide-screws extend, a guidespindle, a spring for moving the bolt in one direction, a handle for moving it in the op- 90 posite direction, and a tooth entering the slotted plate, substantially as described.

2. The combination of the stiff cover memback, C, to which the strips are attached, 95 the hinged portions, a, b, between the parts, A, B, and the back C, hollow curved impaling-pins on one of the strips, solid curved

impaling-pins on the other strip fitting into the hollow pins, the slotted plate secured to one of the strips, the sliding plate arranged in a recess in the other strip, and having a slotted portion through which guide-screws extend, a guide-spindle, a spring for moving the plate in one direction, a handle for moving it in the opposite direction, and a tooth

entering the slotted plate, substantially as described.

In testimony whereof I have hereunto subscribed my name.

ROBERT J. BUCHANAN.

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Witnesses:

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