

J. B. UNDERWOOD.  
 TEMPORARY BINDER.

No. 187,494.

Patented Feb. 20, 1877.

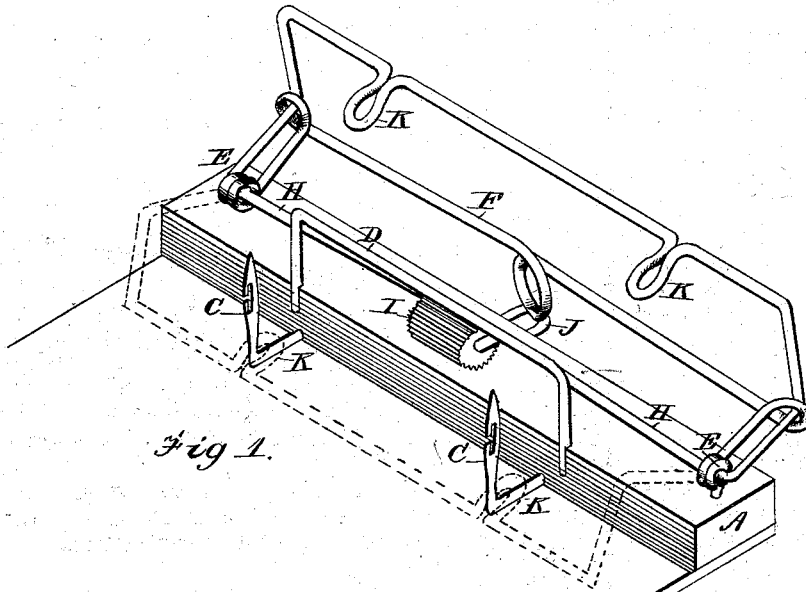


Fig 1.

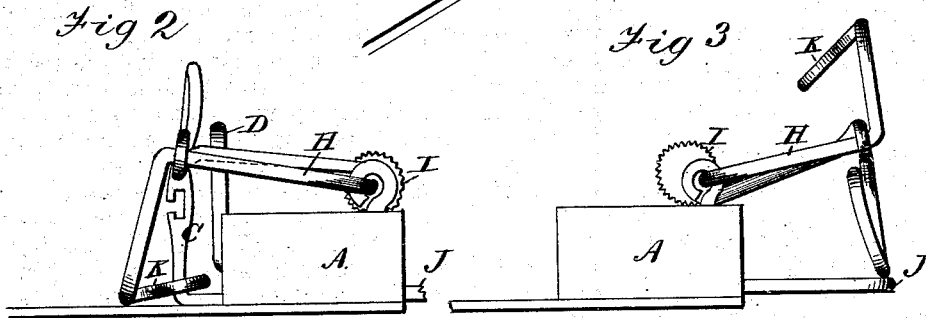


Fig 2

Fig 3

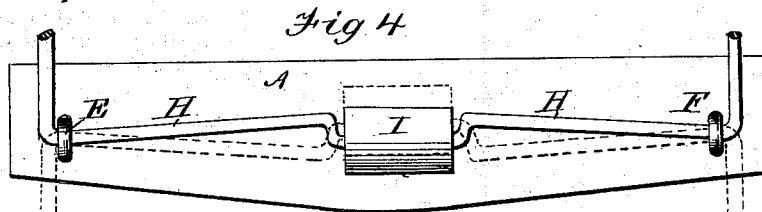


Fig 4

Witnesses;  
 Harry L. Clark  
 No. 10. Stallings.

Inventor.  
 J. B. Underwood

# UNITED STATES PATENT OFFICE.

JOSEPH B. UNDERWOOD, OF FAYETTEVILLE, N. C., ASSIGNOR OF ONE-HALF HIS RIGHT TO WILLIAM A. WHITEHEAD, OF SAME PLACE.

## IMPROVEMENT IN TEMPORARY BINDERS.

Specification forming part of Letters Patent No. 187,494, dated February 20, 1877; application filed February 5, 1877.

*To all whom it may concern:*

Be it known that I, JOSEPH B. UNDERWOOD, of Fayetteville, in the county of Cumberland and State of North Carolina, have invented certain new and useful Improvements in Temporary Binders, which improvements are fully set forth in the following specification, reference being had to the accompanying drawing.

This invention relates to that class of files that have clips or guards actuated by springs, and mounted on card-boards, for the purpose of holding and binding letters, invoices, bills, &c.

The clip is constructed of wire, or any other suitable material, by forming loops K K in the same, as seen in the drawing, the wire then being bent so as to form the front part of the guard having the loops at a convenient distance apart and at right angles, and projecting back from the face of the same. The wire is then bent at suitable angles, and terminates at the center, in the rear of the loops, in a roller, as seen at I. Near the ends of the wire it is bent to form cranks or eccentrics, said guard being hinged with eyelets, as seen at E E, to the card-board, or, what is preferable, to a block, A, mounted on the card-board. Said clip is further braced by a wire, as seen at F, the ends of which, after being suitably coiled about the clip, terminate and fasten to it near E E, which serves the purpose of lifting the guard to and fro. The clip, being formed and hinged as above described, embodies within itself a spring for holding it either up or down, as may be desired. This is accomplished by means of the roller I traversing the plane between the hinges E E as the clip is turned from front to rear, or vice versa, the arms H H being formed so as to produce the axes of the eccentric opposite to the face of the clip. By this device the clip

is held back out of the way for the easy adjustment of papers on the file or removing same therefrom. Said file is further provided with needles C C, the needles having open slots, into which any suitable string, tape, or fastening may be inserted for fastening the papers when they are removed therefrom.

Other needles or clips may be used, such as McGill's, if desired, in the construction of this file.

It is also provided with a guide, D, which serves to regulate the distance from the edge of the papers to the point at which they are pierced.

In placing papers in the file the clip is raised until the loops K K come above the needles C C; the papers are then placed in, with the top edge resting against the guard D. The clip then being released, the spring forces it down, the loops K K holding the papers securely around the needles C C in its downward movement; or, if preferred, the clip may be thrown back until it rests on the loop J, and the papers adjusted by hand, in which position the clip will be held by the action of the spring, as above described.

What I claim as my invention is—

1. A clip constructed of wire, and bent to form the loops K K, arms H H having cranks near the ends, terminating in and forming the axes of the roller I, eccentric to the hinges E E.
2. In combination with a hinged clip, actuated by a spring, and eccentric, to hold it either up or down, the loops K K and the needles C C, arranged substantially as and for the purpose set forth.

J. B. UNDERWOOD.

Witnesses:

C. GLOVER,  
D. M. McDONALD.