W. H. BENNETT.

Temporary Binder.

No. 169,136. Patented Oct. 26, 1875.

Fig. 1.

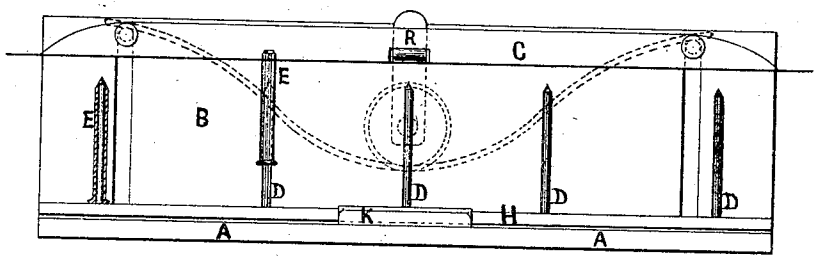


Fig. 2.

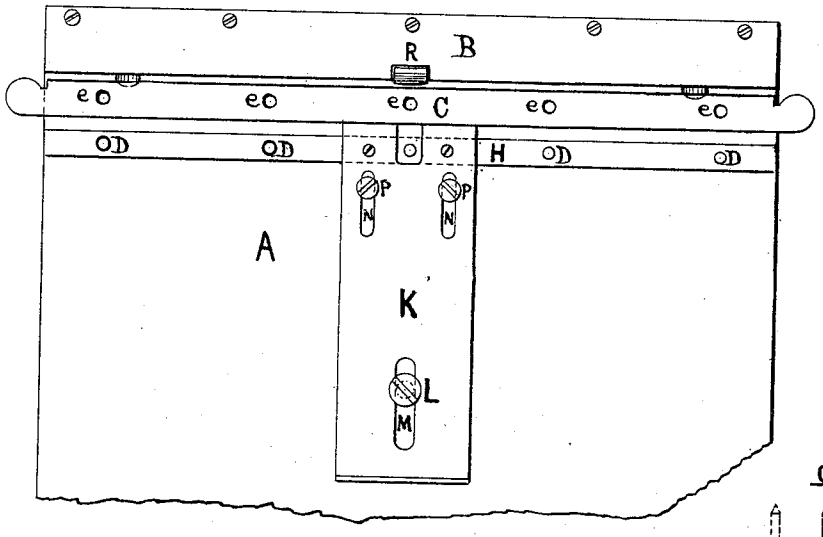


Fig. 3.

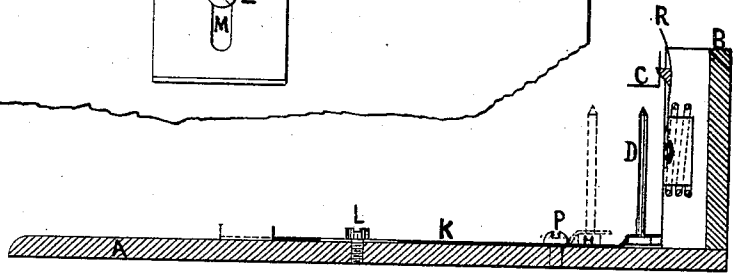
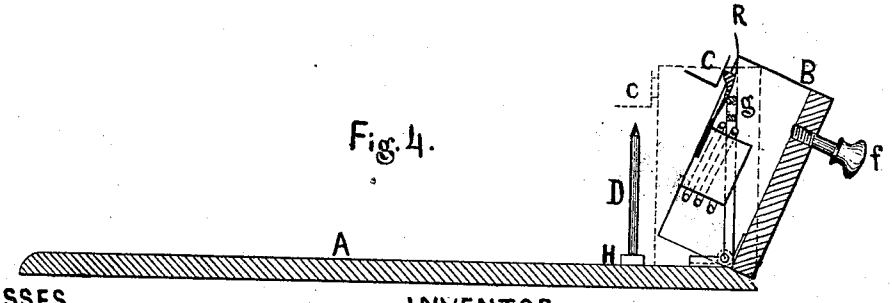


Fig. 4.



WITNESSES.

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UNITED STATES PATENT OFFICE.

WILLIAM H. BENNETT, OF NEW YORK, N. Y.

IMPROVEMENT IN TEMPORARY BINDERS.

Specification forming part of Letters Patent No. **169,136**, dated October 26, 1875; application filed April 14, 1875.

To all whom it may concern:

Be it known that I, WILLIAM H. BENNETT, of New York, in the county of New York and State of New York, 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 simple, efficient, and convenient means for filing papers, and permit their ready removal from the file, with suitable means for binding the same instantaneously without further fastenings or the aid of tools; and it consists of a head provided with a spring-clamp operating in conjunction with a row of fixed needles, provided with binding-tubes, so combined and arranged as when the needles are sufficiently filled with papers, the same may be removed from the needles with the binding-tubes remaining in position ready for fastening.

I accomplish the removal of the papers from the row of needles by tipping the head and spring-clamp back, when raised from off the needles, thus allowing the papers and binding-tubes to be lifted up from the vertical needles without interfering with the binding-clamp; or I draw the papers with the binding-tubes and needles back from underneath the spring-clamp when the same is raised, thus allowing their removal, as before.

Figure 1 is a front elevation of a paper file and binder embodying my invention. Fig. 2 is a plan view of the same, showing the bar and needles drawn forward from the clamp. Fig. 3 is a vertical section of Fig. 1, dotted lines showing needles drawn forward, as in Fig. 2. Fig. 4 is a vertical section of a modification of the former, showing head tipped back.

A is the bed or bottom-board of the file upon which the papers on file rest. B is a head, provided in its interior with a suitable spring, whose free ends rest upon the projections formed upon the rear of the adjustable spring-clamp C, which fit into vertical slots in the front side of the head B. This spring-clamp C is provided with a series of holes, *e*, which permit the clamp C to pass down upon the row or series of needles D, and press firmly upon the papers placed upon the same. These needles D are provided with binding-tubes E, which fit the same, and are provided with a washer or circular projection upon their lower ends.

Their top ends being tapered inwardly to a thin edge, and their extreme length being less than that of the needles, allow them to project above a little. Being pointed, papers are forced upon the binding-tubes readily. When the tubes E are filled sufficiently with papers to be bound, the head B may be tipped back after the spring-clamp C is raised from the needles and tubes, allowing the tubes and papers upon them to be removed from the needles and bound by securing the upper end of the tubes to the cover by a cap or eyelet pressed upon the ends of the tubes. The position of the head when tipped back from the needles is shown in Fig. 4. This head B is hinged to the bed or bottom board A in any suitable manner, and is confined in an upright position by a thumb-screw, *f*, connecting with the vertical support *g*, or other suitable means. The row or series of needles D are secured firmly into the horizontal metal bar H, which may be screwed to the bed or bottom A.

This means of removing the head B with spring-clamp C from the vertical plane of the needles D, may be modified somewhat by sliding the head B back a short distance, so as to allow the papers on file to be removed; but I prefer to draw the metal bar H containing the row or series of needles D forward from the head B sufficiently to allow the papers filed to be lifted from the needles without contact with the spring-clamp C. For this purpose I attach a slide, K, to the bar H, resting on the bottom or bed A, to which it is attached by a screw, L, passing through a slot, M, in the slide K, which is also provided with slots N N, which act upon two screws, P P, as the slide is moved, so as to insure the bar and needles to move parallel with the head and spring-clamp C, which, when raised, is held above the points of the needles by a spring-catch, R.

This invention is an improvement upon a paper file and binder for which a patent was granted to me September 15, 1874.

I am aware that the binding-tubes E have

heretofore been employed, therefore I do not broadly claim the use of such.

Having thus described my invention, what I claim is—

In combination with the bed A, head B and spring-clamp C, the bar H, needles D, slide K, and binding-tubes E, as constructed, to allow for the removal of papers and tubes E combined therefrom, substantially in the manner described, as and for the purposes set forth.

WILLIAM H. BENNETT.

Witnesses:
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