

(No Model.)

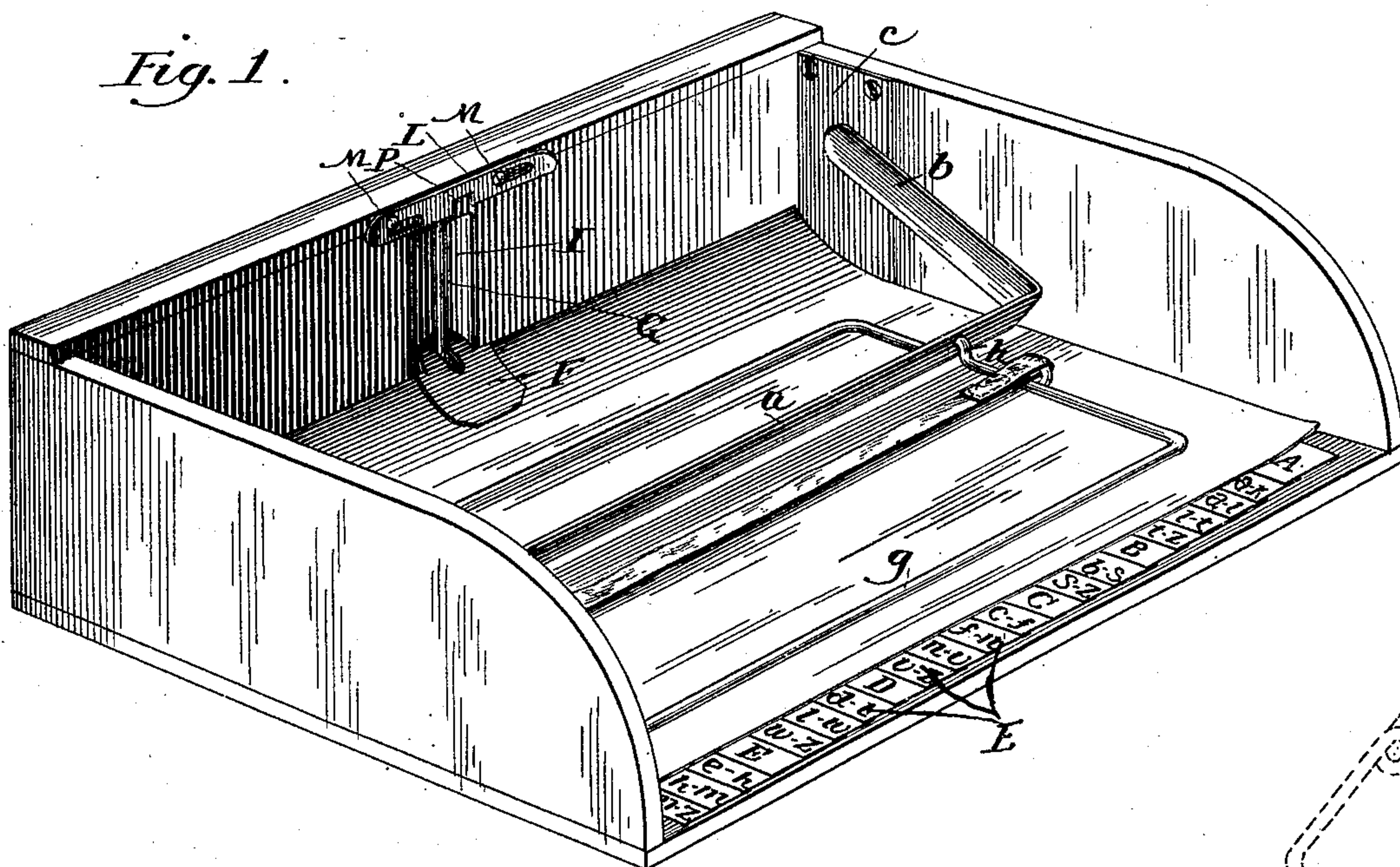
2 Sheets—Sheet 1.

W. LUMLEY.  
TEMPORARY BINDER.

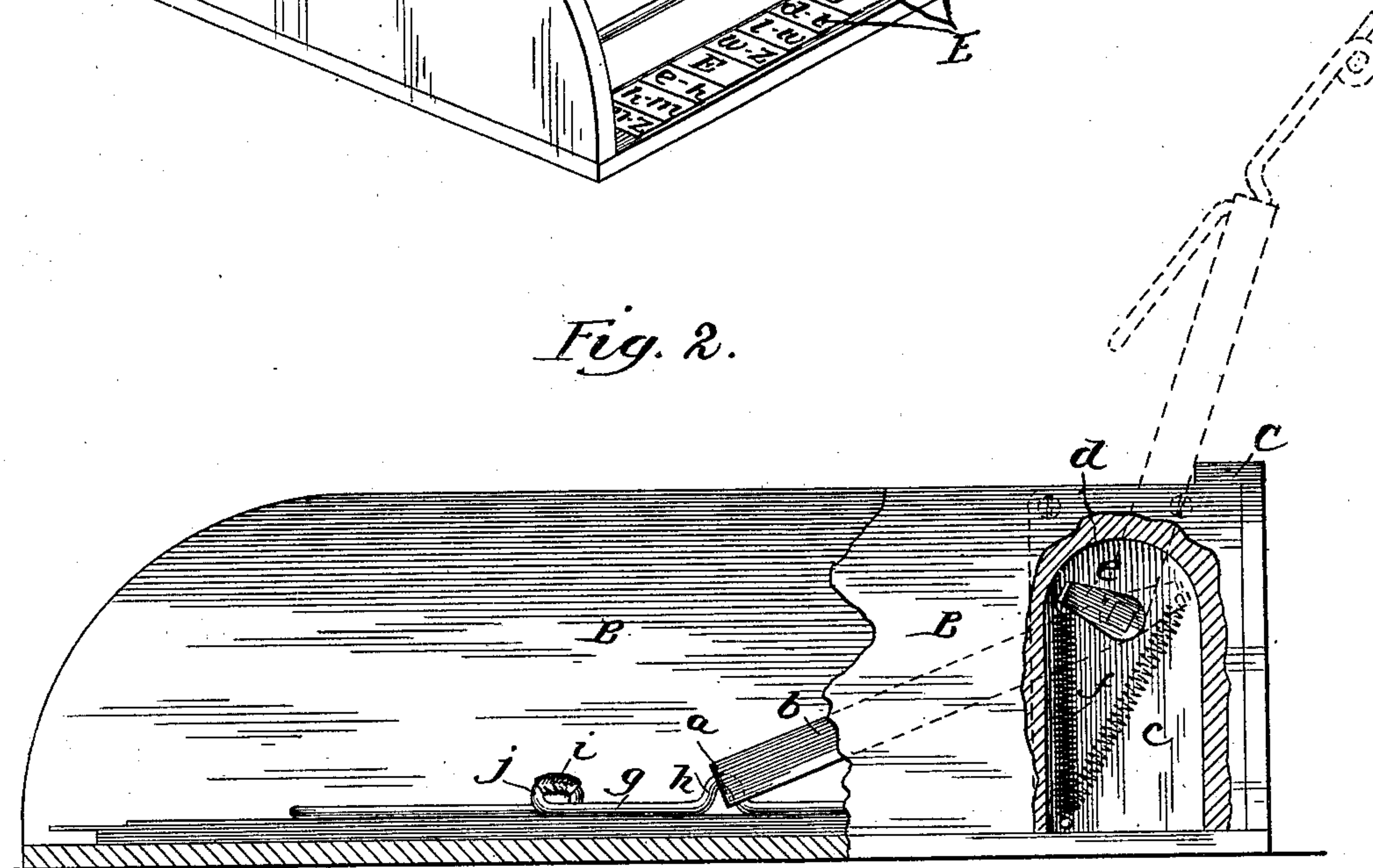
No. 432,537.

Patented July 22, 1890.

*Fig. 1.*



*Fig. 2.*



Witnesses:

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By Jno. G. Elliott  
Attorney



(No Model.)

2 Sheets—Sheet 2.

W. LUMLEY.  
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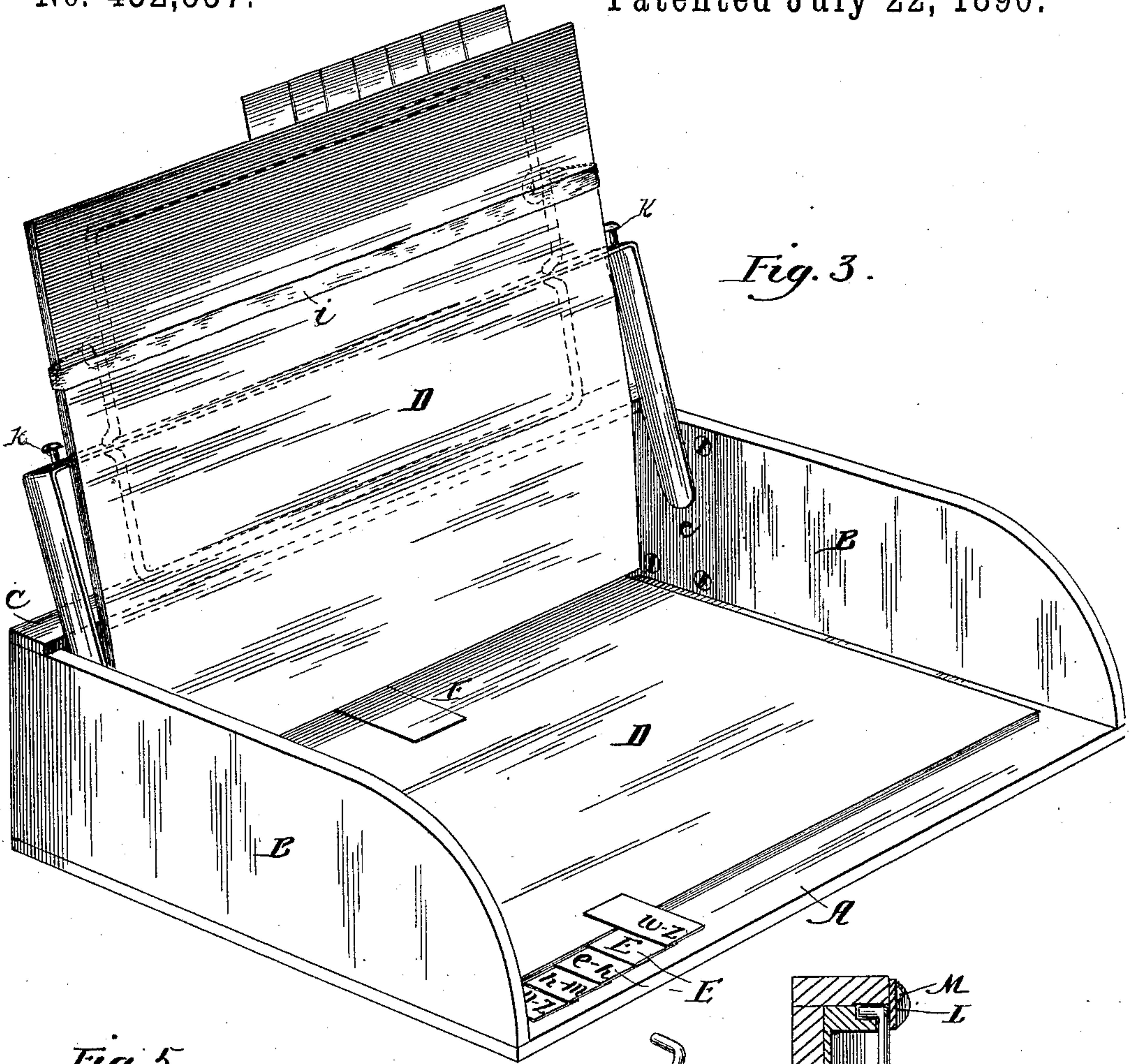


Fig. 3.

Fig. 5.

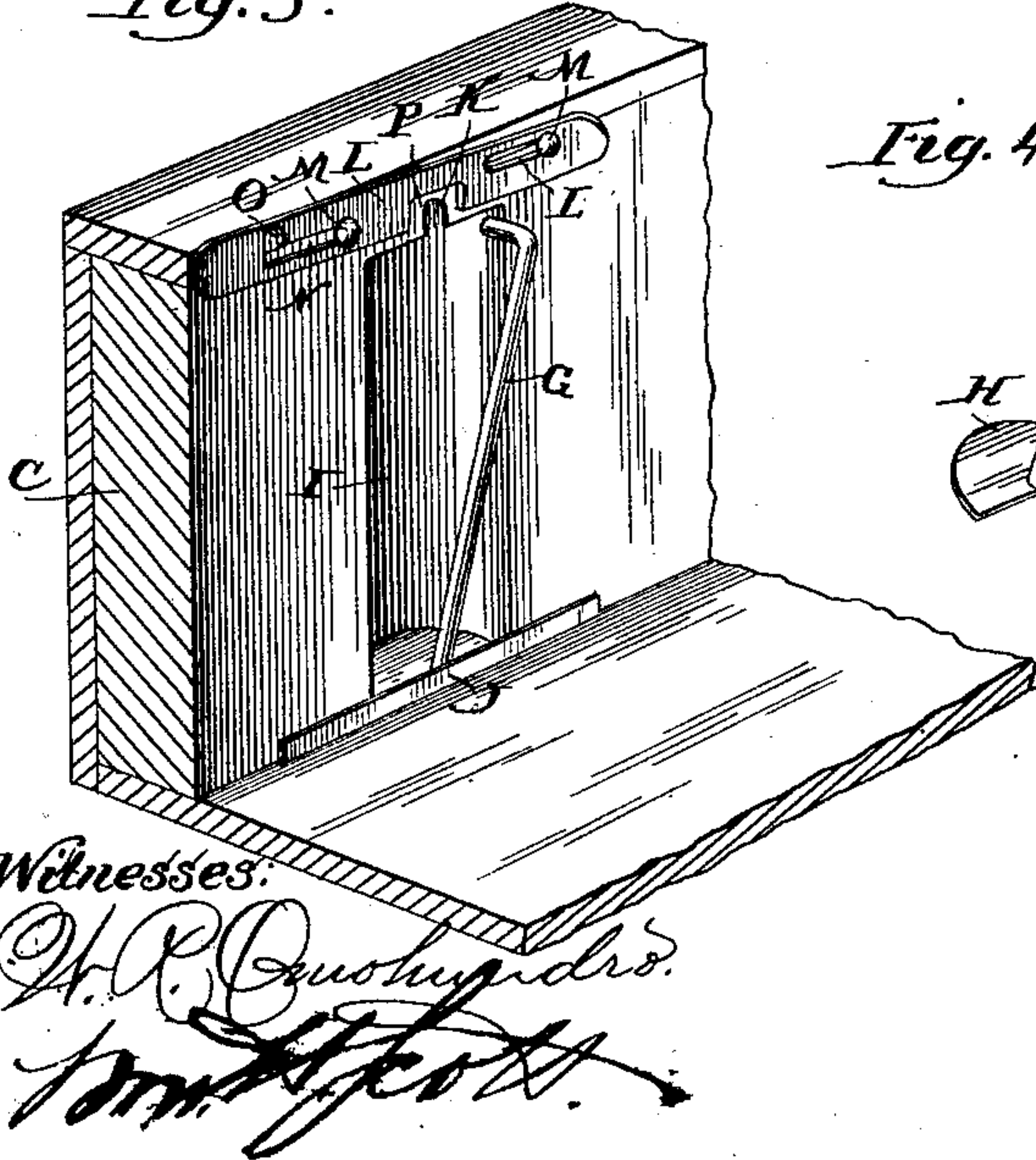


Fig. 4.

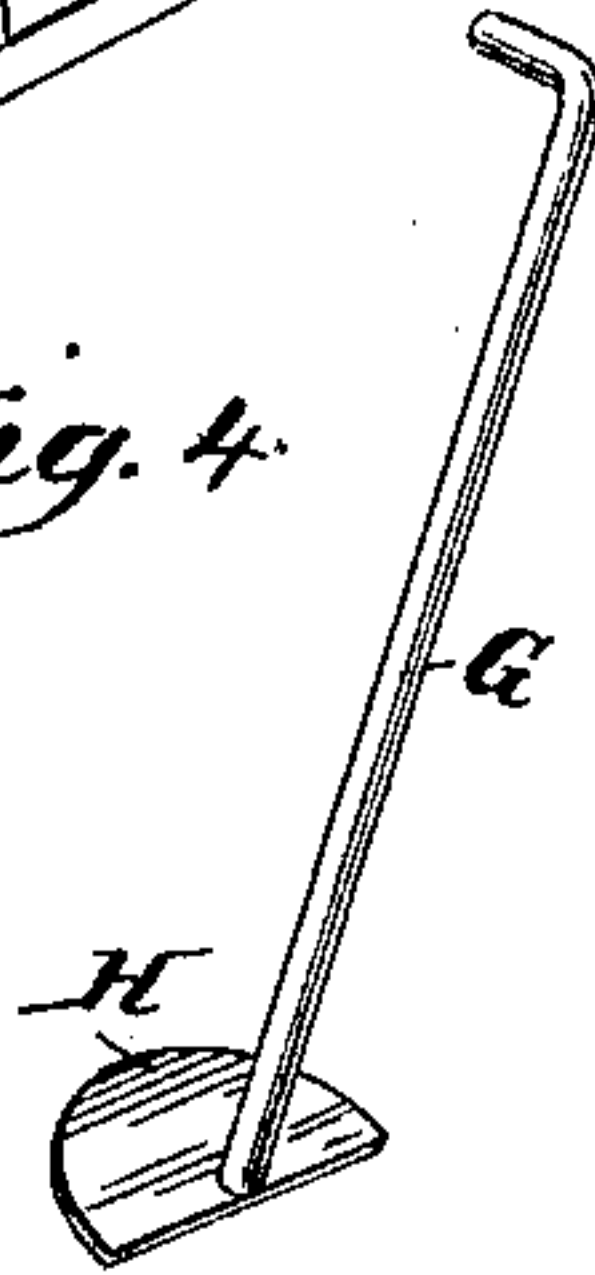
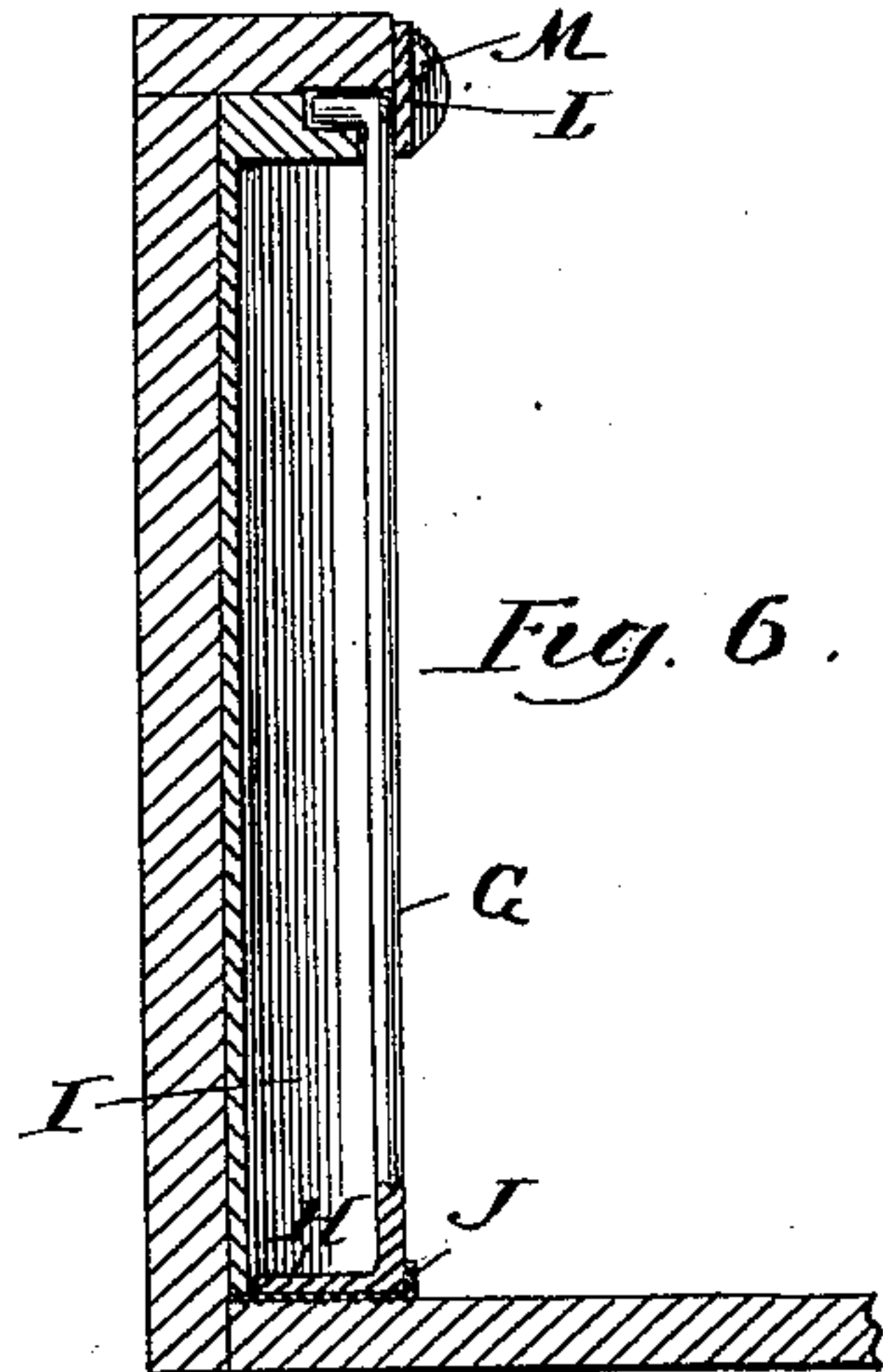


Fig. 6.



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# UNITED STATES PATENT OFFICE.

WILLIAM LUMLEY, OF CHICAGO, ILLINOIS.

## TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 432,537, dated July 22, 1890.

Application filed May 1, 1889. Serial No. 309,188. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM LUMLEY, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Temporary Binders, of which the following is a specification.

This invention relates to improvements in temporary binders for holding letter-file indices conveniently for the ready insertion of letters, bills, and other matters during the continuous use of the file and before the permanent storage thereof, but is more especially designed as an improvement upon the invention set forth in the application for United States Letters Patent filed by me on the 18th day of October, A. D. 1887, Serial No. 252,693, and allowed February 21, 1889, in which said application was shown and described, but not claimed, certain features which will form the subject-matter of claims in this application.

The prime object of this invention is to have a spring-controlled file-holder actuated in such manner that it will yieldingly maintain the file and contents in position, and which will be automatically but yieldingly locked in an elevated position clear of the file and contents whenever it is desired to remove from or insert papers into the file.

Another object is to combine with such a holder a frame adjustable thereon in such manner that it will automatically adapt itself to the variations in the surface of the file due to the varying character of the papers therein.

A further object is to enable the holding of any number of index-sheets by the holder when in an elevated position whenever it is desirable to withdraw any papers from the file, and to mark the place from which the paper was withdrawn when the holder is restored to its normal position.

Further objects are to have a binding-pin for the index-sheets of such a character as not only to maintain the sheets in proper position or permit their removal therefrom when detached from the binder, but which may also be detachably held in the binder in such manner that it may be readily inserted into or removed from the same, and to have said pin of such a character that it may not only be temporarily locked in position, but will also

be self-guiding when inserted into the binder, whereby the manipulation thereof is materially simplified and facilitated.

I attain these objects by the devices illustrated in the accompanying drawings, in which—

Figure 1 represents a perspective view of a temporary binder embodying my invention, showing the holder down upon the index-sheets of the file in its normal position; Fig. 2, an end elevation thereof with parts broken away, so as to more clearly show the construction, the dotted lines showing the holder in its elevated position; Fig. 3, a perspective view of the binder, showing the holder in its elevated position with a portion of the index-sheets held thereby; Fig. 4, a detail perspective view of the binding-pin; Fig. 5, a detail perspective view of a portion of the binder, showing the manner of inserting the binding-pin in position and the devices for locking the same; and Fig. 6, an enlarged detail vertical section thereof.

Similar letters of reference indicate the same parts in the several figures of the drawings.

Referring by letter to the accompanying drawings, A indicates the bottom, B the ends, and C the back, of the usual form of binder-frame in which the file is contained, the shape and dimensions of which, however, may vary according to the requirements of the user.

Upon the bottom of the binder is laid the index-sheets D of the file, provided with suitable lettered tags E at the front edge thereof, and at the rear edge and about centrally of the length thereof with perforated tags F, by means of which the index-sheets are held in the binder. Through the perforations in these tags projects a binding-pin G, the upper end of which is bent at a right angle, and to the lower end of which, lying parallel with angular portion thereof, is rigidly secured a semicircular plate H, designed to be inserted in a vertical semicircular groove I, formed in the inner face of the back of the binder, as more clearly illustrated in Figs. 5 and 6 of the drawings, preferably being socketed in the lower end of the groove in the same plane as the upper surface of the bottom of the binder, either by leaving a portion of the



back extending across the lower end of the groove or else by means of a strip J, spanning the lower end thereof attached to the back, and of sufficient height to prevent the lower end of the pin carrying the plate II from being withdrawn from the groove in a straight line; or, in other words, necessitating the lifting of the pin and plate before they can be withdrawn. The upper angular end of the pin, by the insertion and guiding of the lower end thereof, as just described, into the groove, is turned toward the back of the binder, and when moved to a vertical position enters a recess K in the back above the groove, in which it is held by means of a sliding lock-plate L, working upon pins M projecting through slots N therein, one end of one of which has an offset or angular portion O, which is designed to drop down behind the pin when the slide reaches the limit of its movement, and thus lock the same in position, the slide being cut away or notched, as shown at E, which notched portion registers with the recess K in the back when the slide is in its first position ready for the insertion of the pin. Thus it will be seen that the plate II upon the lower end of the binding-pin, which I may here state may be semicircular, square, or any other desirable configuration, is inserted into the corresponding groove and socketed at the bottom thereof. Its angular end is turned in position to register with the recess provided for its reception in the back, and serves, by the direction in which it points, to indicate when the lower end thereof is properly inserted in position, relieves the same of strain by preventing the twisting thereof in the socket, and likewise prevents the accidental removal or slipping off of the index-sheets from the upper end thereof when the file is detached from the binder; or it may be removed with the file and serve to maintain the same in proper position during and even after the act of transferring the same to the permanent binder or storing-case. I may also state that so far as relates to a means for locking this binding-pin in position when inserted in the binder any other form of locking device than the slide herein shown and described might be employed without a material departure from the spirit of my invention, that form of lock being preferred only because of its simplicity and convenient shape, occupying practically no room upon the binder and offering no obstructions to the filing of the papers or the removal of the file or any part thereof.

For the purpose of holding the indexes of the file smooth and flat in the binder as the file becomes gradually filled, I employ a file-holder consisting of a bail *a*, preferably composed of flat metal and of substantially the width of the inside of the binder, the ends *b* of which are pivoted in plates *c*, attached to the ends B, behind which and on the inner faces of the ends are formed recesses *d*, (see Fig. 2,) in which work crank-arms *e*, rigidly secured to the pivots of the bail, and coiled

springs *f*, one end of each of which is attached to the free end of said crank-arms, and the opposite ends thereof to the ends B, near the bottom of the recesses therein, or to the plate *c*. These crank-arms project from the pivots at such an angle that when the bail is down in its normal position (shown in Fig. 2) the force of the spring is exerted thereon, so as to yieldingly maintain it in this depressed position, which force will continue to be exerted during the elevation of the bail until the crank-arms pass the dead-center through the pivots thereof and the point of attachment of the springs, when the springs pass to the opposite side of the center and will exert their force thereon, tending to draw the bail backwardly, which, being stopped in its rearward movement by the back C of the binder, is held by the springs yieldingly in the elevated position shown by dotted lines in said figure.

To the cross-bar or central portion of the bail A is attached a holding-frame *g*, preferably rectangular in shape, and having offset portions *h* passing through perforations in the bail, which offset portions, while they serve to pivot and permit the vibration of the frame upon the pivot so as to accommodate itself to the variations in the surface of the file, due to the difference in the size and character of the papers contained therein, at the same time prevent a rotation of the frame upon the bail, and thus insure the frame being brought down upon the paper in a proper position at all times without the necessity for manipulation by hand. Another important feature of this non-rotatable but vibrating frame is that by the employment thereof I am enabled to provide means for holding up against the elevated file-holder any number of the index-sheets and the letters therebetween whenever it is desired to remove or insert any letters into the lower part of the file, which feature, however, I may state primarily depends upon the locking of the holding device in its elevated position. To this end I employ an elastic band *i*, attached at its ends, respectively, to eyes *j*, formed in the frame *g*, or to pins *k*, attached directly to the bail near each end thereof, which elastic band, while normally extending across the back of the holder and out of the way, may be stretched and thrown over to the front of the bail, so as to encompass and retain against the holder as many of the index-sheets as may be desired, as clearly illustrated in Fig. 3. Thus whenever it is desired to remove any papers temporarily from the lower part of the file the upper index-sheets of the file, with the letters contained therein, may be lifted and held away from the lower sheets during the withdrawal or insertion of the necessary paper, and, if desired, the separated and lifted sheets may be thrown down upon the lower sheets after being secured by the elastic band and during the temporary withdrawal of the desired papers, because the elastic band or cord will serve to mark the place in the file



from which the paper was extracted, and thus save the annoyance of running through the file to find the proper place at which the paper should be inserted.

5 This feature of my invention is of especial importance to large concerns which number their letters or file them away in the order of their dates as well as alphabetically, because a withdrawn paper may be instantly returned  
10 to the proper place in the file without the loss of any time whatever; but obviously this elastic holder could not be employed, except in connection with a file-holder of substantially the same character as that herein shown—  
15 that is to say, one in which the holder is firmly held when in an elevated position.

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

20 1. In a temporary binder, the combination, with the back thereof provided with a vertical groove and a recess above and at right angles to said groove, of a binding-pin provided with a plate at the lower end thereof,  
25 corresponding in shape and dimensions with said groove, and an angular portion at the upper end thereof, adapted and arranged to engage said recess, and a lock device for maintaining said pin in position, substantially  
30 as described.

2. In a temporary binder, the combination, with the back provided with a vertical groove terminating in a socket at the lower end thereof and a recess above and at right angles to  
35 said groove, of a binding-pin provided with a plate at the lower end thereof, corresponding in shape and dimensions with said groove, and an angular portion at the upper end adapted and arranged to engage said recess,  
40 and a slide having a notch therein adapted and arranged to alternately cover and uncover said recess, substantially as described.

3. In a temporary binder, the combination, with the back provided with a vertical groove  
45 terminating in a socket at the lower end thereof and a recess above and at right angles to said groove, of a binding-pin provided with a plate at the lower end thereof, corresponding in shape and dimensions with said groove,  
50 and an angular portion at the upper end adapted and arranged to engage said recess, and a notched slide provided with longitudinal slots, pins working through said slots,

and an offset from one of said slots by means of which the slide may be locked at the limit  
55 of its movement, substantially as described.

4. The combination, with a temporary binder, of a bail pivoted to said binder, crank-arms on the pivots of said bail, and springs attached at their ends, respectively, to said  
60 crank-arms and a stationary portion of the binder, substantially as and for the purpose described.

5. The combination, with a temporary binder, of a file-holder consisting of a bail  
65 pivoted to said binder, crank-arms upon the pivots of said bail, springs attached at their ends, respectively, to said crank-arms and a stationary portion of the binder, and an elastic band attached at its ends, respectively, to  
70 the opposite sides of said bail, substantially as and for the purpose described.

6. The combination, with a temporary binder, of a file-holder consisting of a bail  
75 pivoted to said binder, crank-arms on the pivots thereof, springs attached at their ends, respectively, to said crank-arms and a stationary portion of the binder, and a rectangular frame having angular offset portions passing through and pivoting said frame upon  
80 the bail and constituting a stop for preventing a rotation of said frame, substantially as described.

7. The combination, with a temporary binder, of a file-holder consisting of a bail  
85 pivoted to said binder, crank-arms on the pivots thereof, springs attached at their ends, respectively, to said crank-arms and a stationary portion of the binder, and a rectangular frame having angular offset portions  
90 passing through and pivoting said frame upon the bail and constituting a stop for preventing a rotation of said frame, and an elastic band attached at its ends, respectively, to  
95 each side of said frame, substantially as described.

8. In a temporary binder, the combination, with a pivoted bail and means for holding same when elevated, of an elastic band attached at its ends, respectively, to the sides  
100 of said bail, substantially as described.

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Witnesses:

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