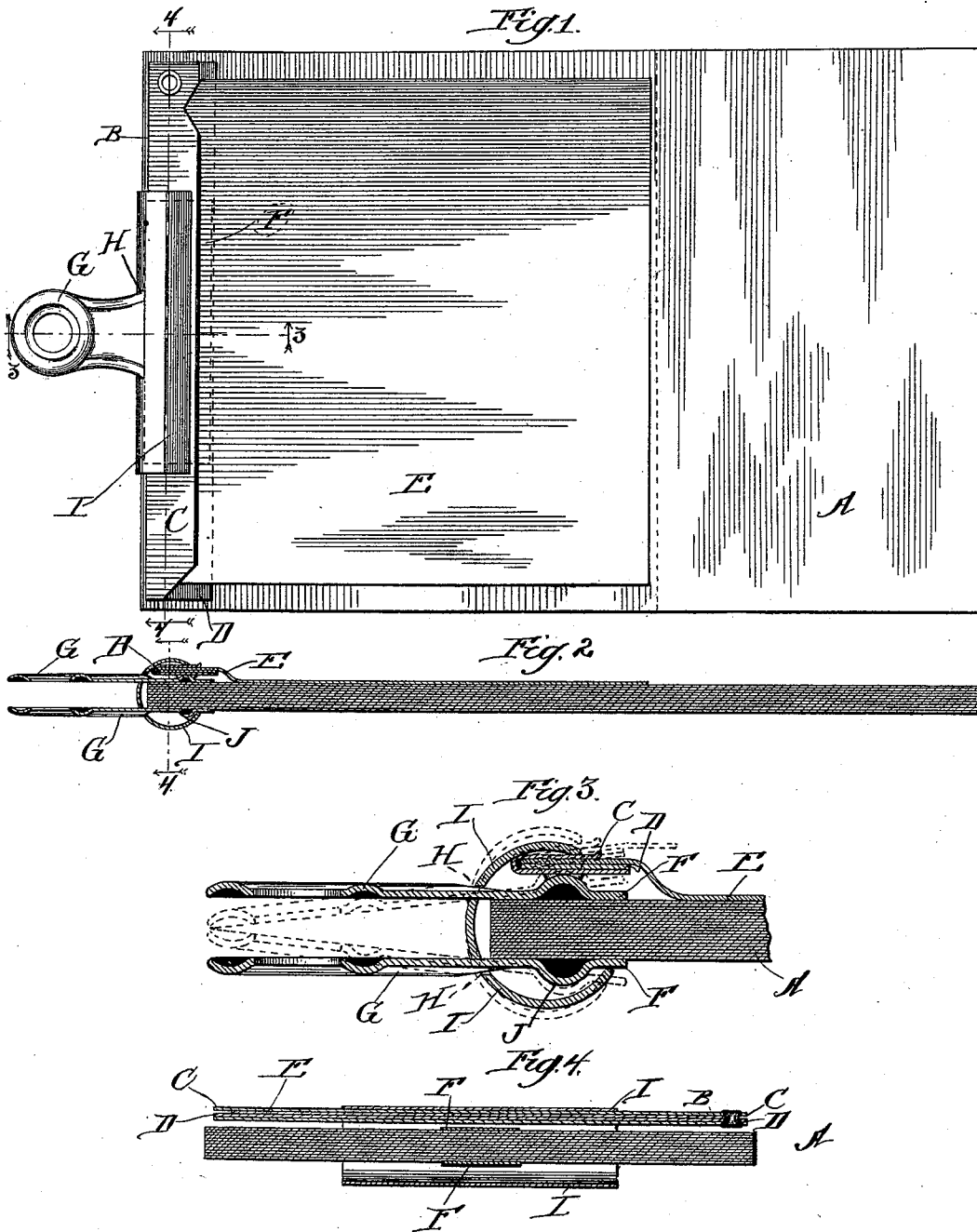


J. S. McDONALD.

HOLDER FOR MANIFOLD BOOKS AND CARBON SHEETS.

No. 522,227.

Patented July 3, 1894.



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Wm. S. Fleming

Inventor:
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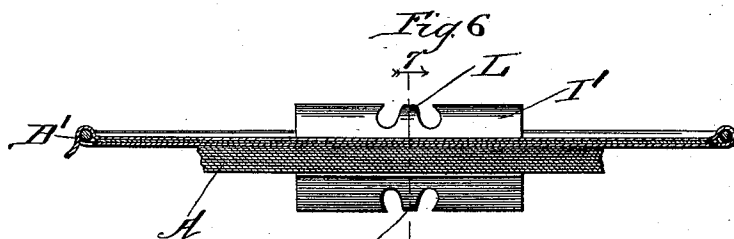
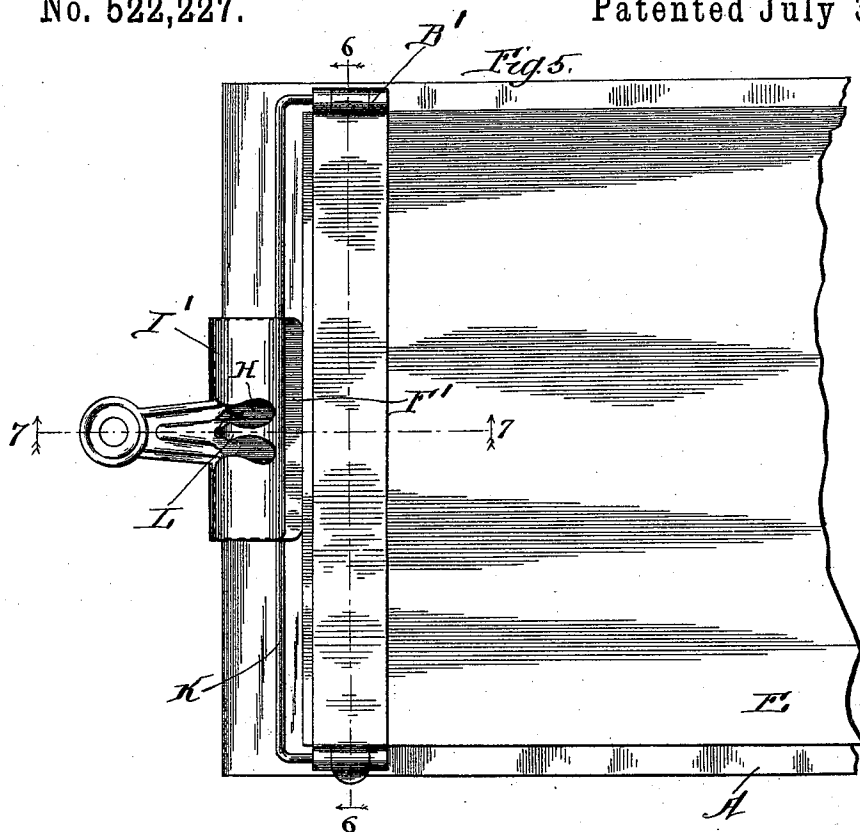
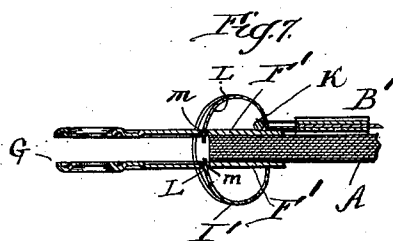
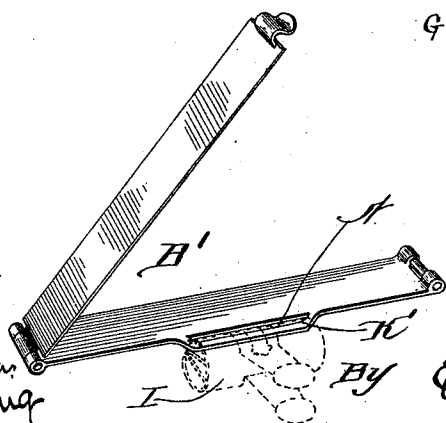


Fig. 8.



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UNITED STATES PATENT OFFICE.

JAMES S. McDONALD, OF CHICAGO, ILLINOIS.

HOLDER FOR MANIFOLD BOOKS AND CARBON-SHEETS.

SPECIFICATION forming part of Letters Patent No. 522,227, dated July 3, 1894.

Application filed June 27, 1892. Serial No. 438,139. (No model.)

To all whom it may concern:

Be it known that I, JAMES S. McDONALD, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Holders for Manifold Books and Carbon-Sheets, of which the following is a full, clear, and exact specification.

My invention relates to devices for holding a sheet of carbon in position on a book to be written upon and it is designed as an improvement on a device of this character shown and claimed in my United States Letters-Patent No. 479,014.

The invention has for its object to provide a simple and effective device for this purpose by means of which the carbon sheet holder may be conveniently and quickly clamped in position on or removed from the leaves or book to be written upon.

With these ends in view, my invention consists in certain features of novelty in the construction, combination and arrangement of parts by which the said objects and certain other objects hereinafter described are accomplished, as fully set forth with reference to the accompanying drawings and more particularly pointed out in the claims.

In the said drawings, Figure 1, is a plan view of a book, tablet or number of leaves, showing a sheet of carbon held in place thereon by means of my improvements. Fig. 2, is a sectional view of the same, taken on the line 3—3, Fig. 1. Fig. 3, is a similar view on an enlarged scale, the jaws being also indicated in dotted lines, in their released position. Fig. 4, is a vertical longitudinal section taken on the line 4—4, Figs. 1 and 2. Fig. 5, is a view similar to Fig. 1, illustrating a modification of the means of connecting the carbon sheet holder and book holder together. Fig. 6, is a vertical longitudinal section taken on the line 6—6, Fig. 5. Fig. 7, is a transverse section taken on the lines 7—7, Figs. 5 and 6; and Fig. 8, is a further modification of the form shown in Figs. 5 and 6, the book holder or clamp being shown in dotted lines and the book or leaves being omitted.

Like signs of reference indicate like parts throughout the several views.

In the drawings, A indicates a block of sheets, blank orders or the leaves of the book

to be written upon, as the case may be, and to which the carbon sheet holder B is to be secured for holding the sheet of carbon E in position on the uppermost leaf.

The carbon sheet holder *per se*, may be of any suitable form, such for instance, as that shown in my aforesaid patent which consists of a case C composed of a strip bent substantially into a "U" form in cross-section and having pivoted therein a blade or strip D for pressing the edge of the carbon sheet E into the frame, as will be readily understood; or instead of this form, such a carbon sheet holder as shown in United States Letters-Patent, No. 431,071, granted to me July 1, 1890, might be employed, but any other form will answer the purposes of my present invention.

In the form of my invention shown in Figs. 1 to 4 inclusive, which will first be described, the carbon sheet holder B is secured to or formed on the upper side of one of two jaws F, which constitute the clamping jaws of the book holder or clamp, the said jaws and the carbon sheet holder being substantially parallel. Each of the jaws F is provided with a thumb piece or lever G, which levers or thumb pieces pass through slots or openings H, formed longitudinally in the rear side of a spring tube or sleeve I, at a slight distance apart, thus forming keepers for holding the levers in place and at the same time constituting a fulcrum, through the aid of which the jaws may be pried open or spread apart to receive the leaves or book between them, by pressing the levers or thumb pieces together.

As shown more clearly in Figs. 2 and 3, the tube or sleeve I is split or divided along its forward side, preferably on a line diametrically opposite a point intermediate of the slots or openings H, thus forming two spring lips, the lower one of which bears against the under side of the lower jaw F, while the upper one bears upon the upper fold of the carbon sheet holder. In this manner, the spring sleeve not only forces the jaws together with sufficient pressure to hold the leaves together and to secure the carbon sheet holder in place, but, owing to the impingement of the upper fold of the carbon sheet holder by the upper edge or lip of the spring sleeve, the sides or folds of such carbon sheet holder are

firmly squeezed against the carbon and the blade D; thereby holding the blade in place without the employment of other means, such as a catch or latch.

5 As shown by the dotted lines in Fig. 1, the jaws F are substantially the same in length as the sleeve I and rest at their inner edges against the back of the sleeve, while their forward edges project slightly beyond the
10 spring lips formed by the sleeve; thus the thumb pieces or levers G are prevented from being withdrawn in one direction, while their withdrawal in the opposite direction is prevented by means of a rib J formed on the
15 lower jaw and against which the edge of the sleeve impinges in case the jaw should become slightly displaced, and thereby holds the jaw against further displacement. The carbon sheet holder B is here shown as secured to the upper jaw, but I wish it to be
20 understood that it would not involve a departure from my invention to form such jaw and carbon sheet holder integrally.

In the form shown in Figs. 5 to 7 inclusive,
25 the carbon sheet holder, B', is of the form shown and described in my aforesaid Letters-Patent, but which is provided in this instance at its rear edge with a longitudinal bar or loop K, preferably extending throughout the
30 length thereof and being secured at its ends to the ends of the carbon sheet holder, in any suitable manner; and by means of this bar the carbon sheet holder is hinged or yieldingly secured to the book holder or clamp in
35 such a manner that the carbon sheet holder will be capable of shifting longitudinally independently of the book-holder, or turned backward over the book-holder when it is desired to turn over a new leaf or to remove
40 the carbon from the writing surface for any other purpose. As a simple means of accomplishing this desirable result, I simply pass the bar or strip K through the book holder between one of its jaws F, the upper one, and
45 one of the spring lips, formed by the split sleeve I'. Thus, it will be seen that the jaws of the book-holder may be readily opened and closed without interference from the carbon sheet holder; and furthermore, that the
50 carbon sheet holder may be readily shifted from side to side throughout a considerable range, in case the book or leaf being written upon, should be of greater width than the carbon, and that when it is desired to expose
55 a new leaf to the face of the carbon, the carbon-holder may be readily folded backward over the book-holder without disturbing the latter. In this form, the spring sleeve I' is provided preferably at its upper and lower
60 sides with spring tongues or pawls L, whose lower ends are turned toward the levers or thumb pieces G and are sharpened and engage in cavities or indentations m, formed in the upper and lower sides respectively of the
65 upper and lower jaws F', thus preventing such jaws from being withdrawn from the split sleeve without first disengaging such

tongues. The upper edge of the sleeve, in this instance, of course, finds it bearing upon the top of the upper jaw, the rib J being 70 omitted.

Instead of securing a separate bar as the bar K, to the carbon sheet holder, as just described, it is quite obvious that one edge of one of the jaws of the carbon sheet holder 75 might be provided with a slot N, formed longitudinally therein, so as to constitute a loop or bar K', through which the spring sleeve I may be passed in the manner before described; and it is also obvious that such bar 80 K' might extend throughout a portion only of the length of the carbon sheet holder, as shown in Fig. 8, or throughout its entire length, like the bar K, in Fig. 5.

Having thus described my invention, what 85 I claim as new therein, and desire to secure by Letters Patent, is—

1. The combination of a removable clamp for holding the book, and a carbon sheet holder secured thereto and being capable of longitudinal movement independently thereof, substantially as set forth.

2. The combination of a removable clamp or book-holder for holding the book and a carbon sheet holder longitudinally movable independently thereof and being hinged thereto and movable bodily independently thereof whereby said carbon sheet holder may be folded backward over the book-holder or adjusted to the book independently of the book 100 holder, substantially as set forth.

3. In a combined carbon sheet holder and book holder, the combination of a carbon sheet holder having a longitudinal bar or loop, and a removable book holder having a portion engaging said bar or loop, for yieldingly connecting the two together, substantially as set forth.

4. The combination of the carbon sheet holder provided with a longitudinal loop or 110 bar and a book holder having the jaws F and spring sleeve I, between which spring sleeve and one of said jaws said bar passes, substantially as set forth.

5. The combination of a book clamp consisting of a divided spring sleeve or tube having slots or openings in its rear side, the jaws arranged in said tube and having thumb pieces or levers projecting through said slots, and a carbon sheet holder connected to one 120 side of said book clamp, substantially as set forth.

6. The combination of a divided spring sleeve or tube having slots or openings in its rear side, two flat jaws arranged in said tube and being impinged by the edges thereof, and having levers or thumb pieces projecting through said slots or openings respectively, and a carbon sheet holder secured between one of said jaws and one edge of said tube, 130 substantially as set forth.

7. The combination of a divided spring sleeve or tube having spring tongues and openings in its rear side, jaws arranged in

said sleeve and being impinged thereby, and having cavities in which said tongues engage, and thumb pieces or levers projecting through the openings in said sleeve, and a carbon sheet holder secured between one of said jaws and said sleeve, substantially as set forth.

8. In a combined carbon sheet holder and book holder, the combination of a clamp having spring actuated jaws adapted to be re-

movably secured to the book and a carbon sheet holder hinged to said clamp on an axis extending lengthwise of the carbon sheet holder and adapted to be folded back over one of said jaws, substantially as set forth.

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