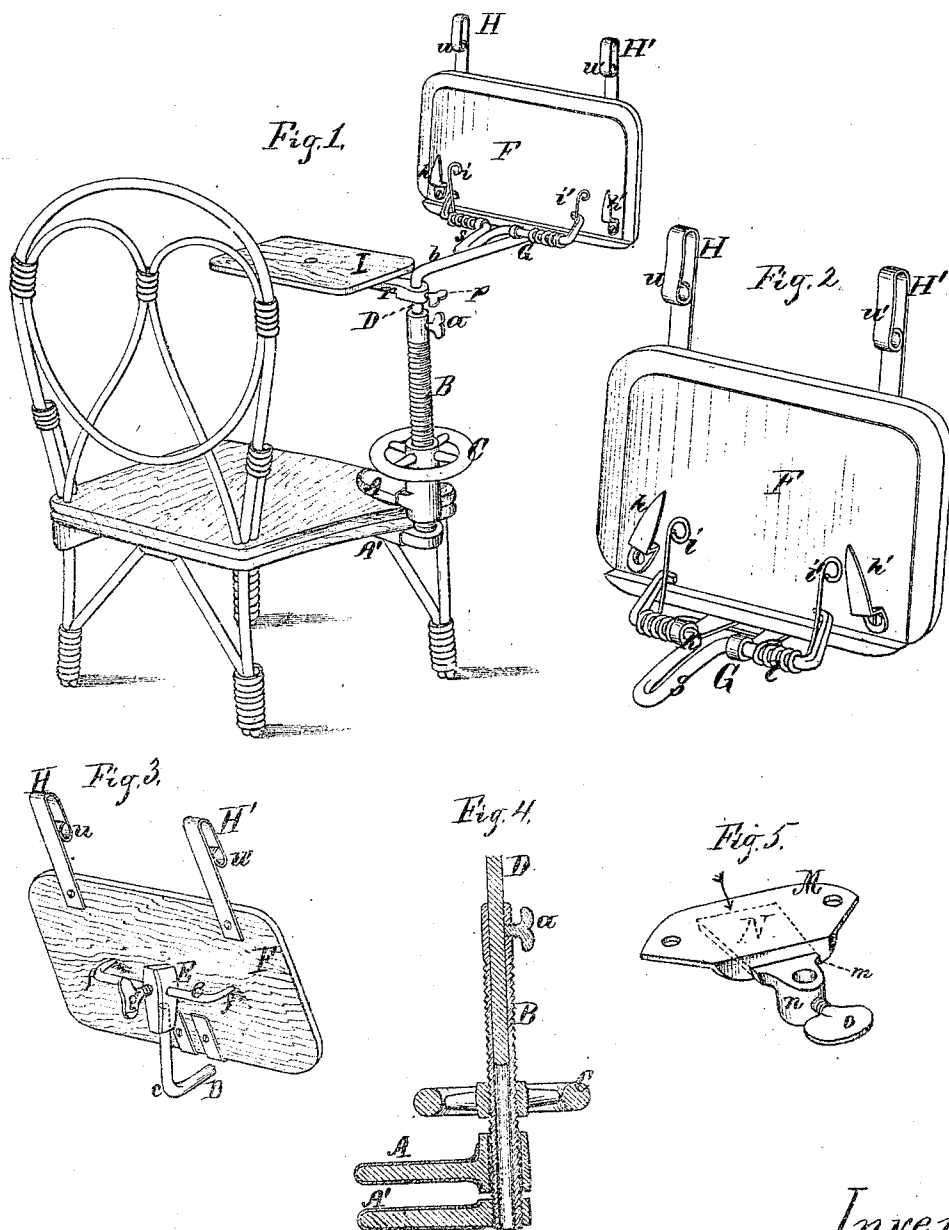


J. & A. W. A. M. Causland,

Book Support.

No. 111,858.

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Letters Patent No. 111,858, dated February 14, 1871.

IMPROVEMENT IN BOOK-SUPPORTS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, JOHN McCAUSLAND, ALEXANDER McCAUSLAND, and WILLIAM J. A. McCAUSLAND, of the city and county of Providence, in the State of Rhode Island, have invented a new and useful adjustable Book and Newspaper Holder, capable of being readily attached to a chair, table, or other similar article of furniture, and as easily removed when not desired for use; and we do hereby declare that the following specification, taken in connection with the drawing furnished and forming a part of the same, is a true, clear, and exact description thereof.

Figure 1 represents, in perspective, a chair having one of our holders attached thereto.

Figure 2 represents, on a larger scale, the book-rack, and the mechanism which holds the covers and leaves of a book in position, and also newspaper and manuscript-holders attached thereto.

Figure 3 represents the rear of the book-rack, showing the means of rotary and angular adjustment.

Figure 4 represents the clamping device on a larger scale than in fig. 1.

Figure 5 represents a clamping device for permanent attachment to a table or chair.

The same letters of reference are used in all the figures.

A and A' are jaws of a screw-clamp. The lower jaw A' is fixed, while the upper jaw A is movable vertically. Both are clothed with rubber to secure a fixed connection, as well as to prevent scratching or other injury to the article to which it may be attached.

B is a hollow screw. To its lower end is firmly attached the jaw A', the upper jaw A being loosely fitted thereto.

C is a wheel-nut, tapped to correspond with the threads of the screw B. By turning the nut C downward on the screw the jaws A are brought into proper relation to each other and closely hold upon any object interposed between them.

D is a standard, fitted to enter the interior of the screw B, and may be secured in any desired position, vertically speaking, by the set or thumb-screw *a*.

This standard is bent horizontally, at nearly right angles, forming an elbow at point marked *b*, and then, again, vertically, at right angles to this latter portion, at point *c*.

E is a swiveled block, vertically mounted upon the upper end of the standard D, which is capable of being revolved thereon on a plane at right angles thereto.

F is the book-rack. It is mounted on a rod, *e*, having curved ends *f*. This rod passes horizontally through the block E. It is adjustable longitudinally, and the rack may also be turned to any desired angle between

a horizontal and a vertical position, and held in place by the set or thumb-screw *g*.

G is the apparatus for holding the book open. It consists of two pivoted fingers, *h* *h'*, and two spring fingers, *i* and *i'*, the former for securely holding the covers of the book and the latter the leaves.

The fingers *i* and *i'* are actuated by and are a part of a spiral spring, *l*, encircling a thumb-bar, which is mounted in two bearings and provided with a thumb-piece, *s*, which, upon being deflected, raises the spring fingers by contact with the under side of said fingers of the curved ends of the bar K.

H and H' are the newspaper and manuscript-holders. They are pivoted at their lower ends to the back of the book-rack, and may be turned down out of the way when not in use.

The holding device consists of a straight springy piece of metal so turned at its ends that it forms a pair of spring jaws, *u* *u'*.

I is a writing-table, attached to an arm, *r*, connected to the standard D, and is vertically adjustable thereon, and held in place by the thumb-screw *p*.

In fig. 5 we show a form of clamp suitable for permanent attachment to a chair or desk.

M is a holding-plate, to be screwed upon the under side of a chair. It is provided with an angular groove, *m*, with beveled edges.

N is a dovetailed block, which is fitted to the groove entering in the direction of the arrow.

A projecting ear, *n*, is provided with an aperture for receiving a standard, which is held in position by a thumb-screw, *o*.

It will be observed that the book-rack is vertically, angularly, longitudinally adjustable, and also adjustable laterally with relation to the person using it.

The operation of the holder may be described as follows:

The jaws A, being opened, are placed in relation to a chair-seat as shown, and the nut C turned down until the connection is secure. The reader taking his seat adjusts the rack to a proper height by the thumb-screw *a*. Simultaneously he will adjust the same to a proper distance from his eye by turning the arm of the standard from or toward him. Then he may fix the book in position, holding the covers by the fingers *h* and *h'*, and the book open at the desired place by the spring fingers *i* and *i'*. Then adjust the book-rack at any desired angle and fix it in position by the thumb-screw *g*.

If desired, as is the case sometimes, to get a better light by moving the book-rack horizontally, it can readily be done after loosening the thumb-screw *g*.

We are aware that book-holders or racks and music-

stands have been heretofore made with great variety of construction, but we know of none involving such complete adaptability as our improved holder, which, while desirable for the use of all, is especially valuable for the use of invalids.

With persons in the habit of enlivening the home circle by reading aloud our holder will prove of great value, for during the reading the chest may be thrown forward and respiration aided, while the hands are free to assume any desired position.

For newspaper or sheet-manuscript reading the spring clamps H and H' are to be turned on their pivots so as to extend upward from the rack, and the paper slipped into the jaws of the clamps.

For taking notes while reading, the writing-table I, adjustable vertically on the standard D, affords ample facilities. When this latter is used, the arm r, being attached to the standard by its thumb-screw, will sustain the standard in the clamp without the use of the thumb-screw a.

Having thus described our invention,

We claim as new and desire to secure by Letters Patent—

1. The book-rack F, cover-fingers h h', and spring fingers i i', the latter operated by the thumb-piece s, all constructed and operating as described.

2. The hollow screw-clamp, elbowed standard, book-holder, and table I, the latter being mounted upon the standard and capable of a rotary and vertical adjustment thereon, as and for the purposes specified.

3. In combination with an adjustable book-holder, the newspaper or manuscript-clamps H H', as and for the purposes specified.

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