No. 648,742. Patented May 1, 1900.

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BOOK SUPPORT.

(Application filed Dec. 15, 1899.)

(No Model.)

Fig. 1.

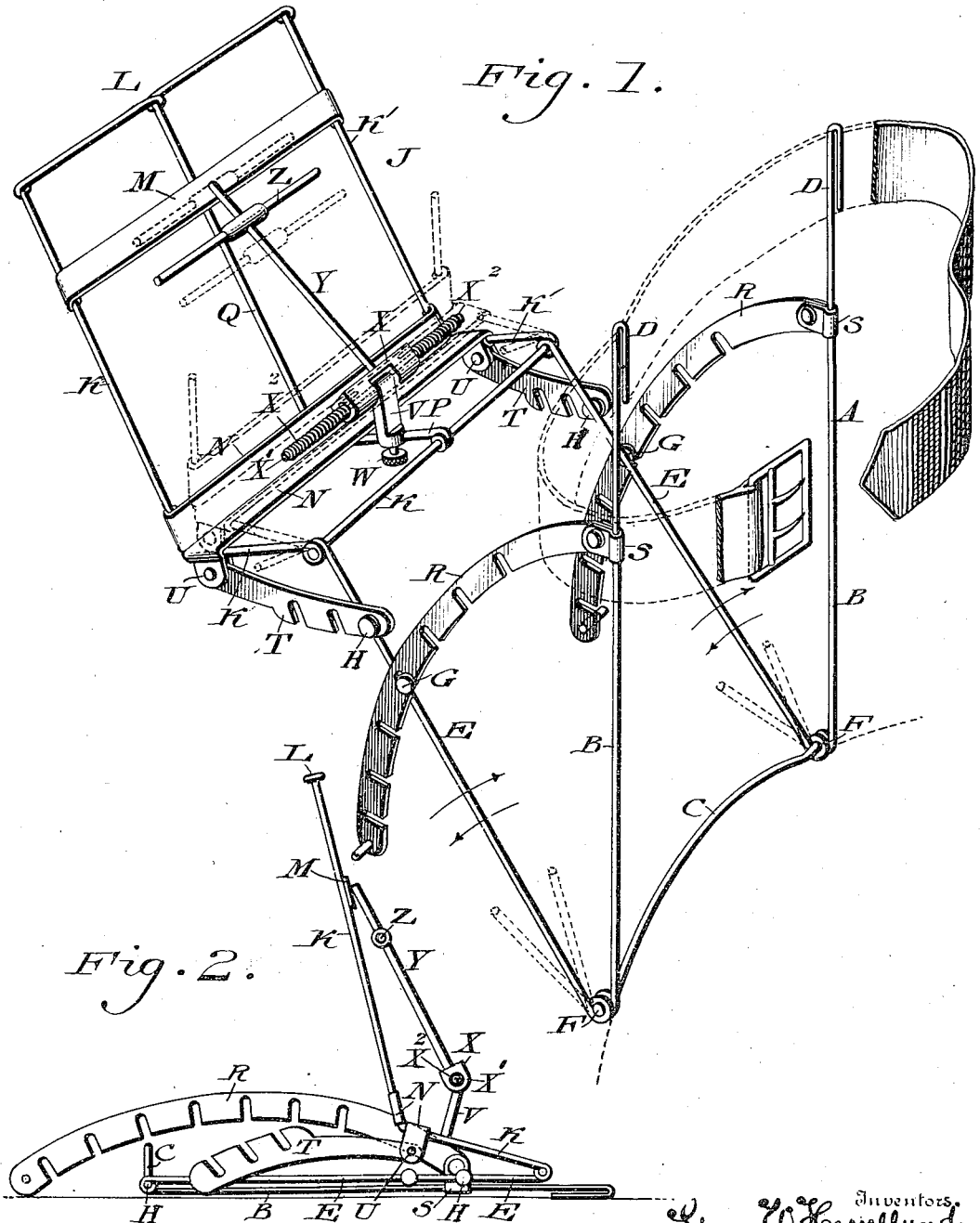

Fig. 2.

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BOOK-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 648,742, dated May 1, 1900.

Application filed December 15, 1899. Serial No. 740,377. (No model.)

To all whom it may concern:

Be it known that we, GEORGE W. HASSELLUND and CHARLES S. REES, citizens of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Book-Supports, which improvement is fully set forth in the following specification and accompanying drawings.

Our invention consists of a support which is adapted to be sustained on the body of the reader of the book or other object placed on said support and in which provision is made for placing the book or article nearer to or farther from said body and varying the pitch or angle of the object, as will be hereinafter described, the novel features being pointed out in the claims that follow the specification.

Figure 1 represents a perspective view of a book-holder in operative condition embodying our invention. Fig. 2 represents a side elevation of the same in partly-folded condition.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates a frame consisting of the side uprights B B, the cross-bar C, connecting the bottom of the same, and the hooks D at the top of said uprights. E designates swinging arms which are pivotally mounted on the ends F of the cross-bar C and have on the sides thereof the studs G and H, said uprights B and said arms E constituting the limbs of said frame on the order of a toggle, the uprights when the support is in use being stationary.

J designates a swinging frame which is mounted on the cross-bar K, which connects the upper ends of the arms E, said frame consisting of the angular side pieces K', the cross-bars L M, which are secured to said pieces, the ledge N at the angle of said pieces, a brace P, the latter being secured at its ends with the ledge N and cross-bar K, thus strengthening the lower portion of the frame J, said brace P being connected with or made continuous of the brace Q, which is connected with the ledge N and mounted on the cross-bars M L, thus strengthening the upper portion of said frame J.

R designates slotted segments or stays, which are pivotally mounted on ears S, attached to the side pieces B of the frame A, and T designates slotted segments or stays, which are pivotally mounted on ears U, attached to the ledge N of the frame J.

The stays R are adapted to engage with the studs G, and the stays T are adapted to engage with the studs H, for purposes to be hereinafter described.

On the brace P is fitted the post V, which may slide on the same to and from the ledge N, so as to adjust the position of the post relatively to the thickness of the book or article rested on said ledge, said post carrying the screw W whereby it may be firmly held in adjusted position.

Mounted on the upper end of the post V is the swinging ear X, rising from which is the arm Y, the latter having thereon the cross-bar Z, the latter being adapted to bear against the book or other article on the ledge to keep the same open, it being also vertically movable on the arm Y, so as to be adjusted relatively to the height of the book or article. In order to cause the bar Z to press against said book or article, the fixed pintle or axial pin X' of the ear X has secured to it the springs X^2, which are secured to said ears, the pressure thus exerted on the ear being communicated to the bar Z, the effect of which is evident.

The operation is as follows: A strap is buckled or otherwise secured around the body of the reader of the book, &c., the same being shown in partly-dotted and partly-full lines, Fig. 1, and the frame A is hooked thereon, thus sustaining the device on said body. In order to have the book, &c., set nearer to or farther from the body, the stays R are removed from the studs G, and the arms E swing in or out until the adjustment is accomplished, when the proper slots of said stays are fitted on said studs, thus locking and controlling said arms E. In order to adjust the angle of the book, &c., the stays T are removed from the studs F and the frame J turned on its axis to the required extent in or out, after which the proper slots of said stays are fitted on the said studs, thus locking and controlling said frame.

The device may be removed from the body

and the parts compactly folded together convenient for packing, storage, transportation, &c., or partly folded, as in Fig. 2, when it is capable of being rested on a table or other support, leaving the frame J in condition for supporting a book, &c., thereon, as in the previous case, the adjustment of said frame having been previously accomplished.

The frame A and arms E form somewhat of a toggle, the extent of the opening and closing of whose limbs adjusts the distance between the supporting-frame J and the body of the reader or user of the device, as has been stated.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A swinging book-holding member, a toggle-frame to whose movable limb said member is pivotally connected, means for adjusting the opening and closing motions of said limb, and a support for a leaf-holder which is connected with said book-holding member and pivotally mounted on said limb of said toggle-frame.

2. A swinging book-holding member, a toggle-frame, on whose movable limb said member is mounted, a stay on one of the limbs of said toggle-frame and an engaging device therefor on the other limb thereof, and means on the stationary limb of said toggle-frame for connection with a body appliance.

3. In a support of the character described, a toggle-frame adapted to be carried on the body of the user, a book-holding member pivotally mounted on a limb of said frame, means on the frame for adjusting the distance between the limbs thereof, means on said frame and member for adjusting the angular pitch of the latter, and a support for a leaf-holder which is connected with said book-holding member and pivotally mounted on said limb of the toggle-frame.

4. A toggle-frame, a stay connected with one limb of said frame and adapted to be adjustably connected with the other limb, a book-holding member pivotally mounted on said frame, a stay on said member adapted to be adjustably connected with said frame, and a support for a leaf-holder which is connected with said book-holding member and pivotally mounted on said limb of the toggle-frame.

5. A toggle-frame, a book-holding member mounted on the movable limb of said frame, a stay pivotally mounted on one of the limbs of said frame and an engaging piece therefor on the other limb thereof, and a stay pivotally mounted on said book-holding member, and an engaging piece therefor on one of the limbs of said toggle-frame.

6. A swinging book-holding member, a toggle-frame on which said member is mounted, a stay on said member, an engaging piece for said stay on one of the limbs of said toggle-frame, a stay on one of the limbs of the toggle-frame, an engaging piece for the latter-named stay on the other limb of said toggle-frame, and means on one of the limbs of said toggle-frame for connection with a body appliance.

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