(No Model.) 2 Sheets—Sheet 1.

A. C. HAFELY.

BOOK HOLDER.

No. 342,006. Patented May 18, 1886.

Fig. 2.

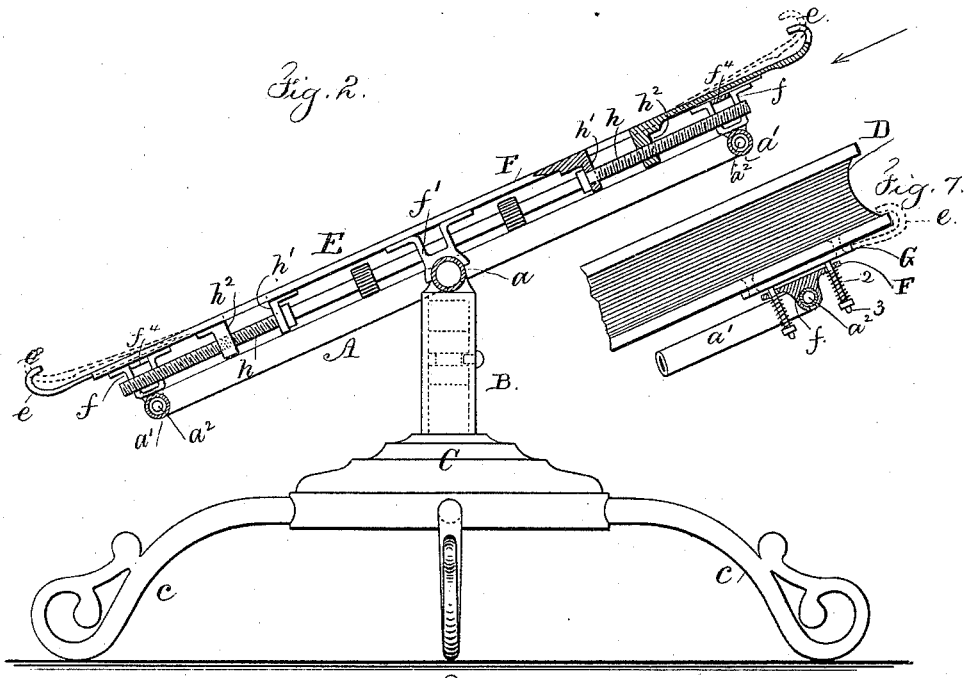
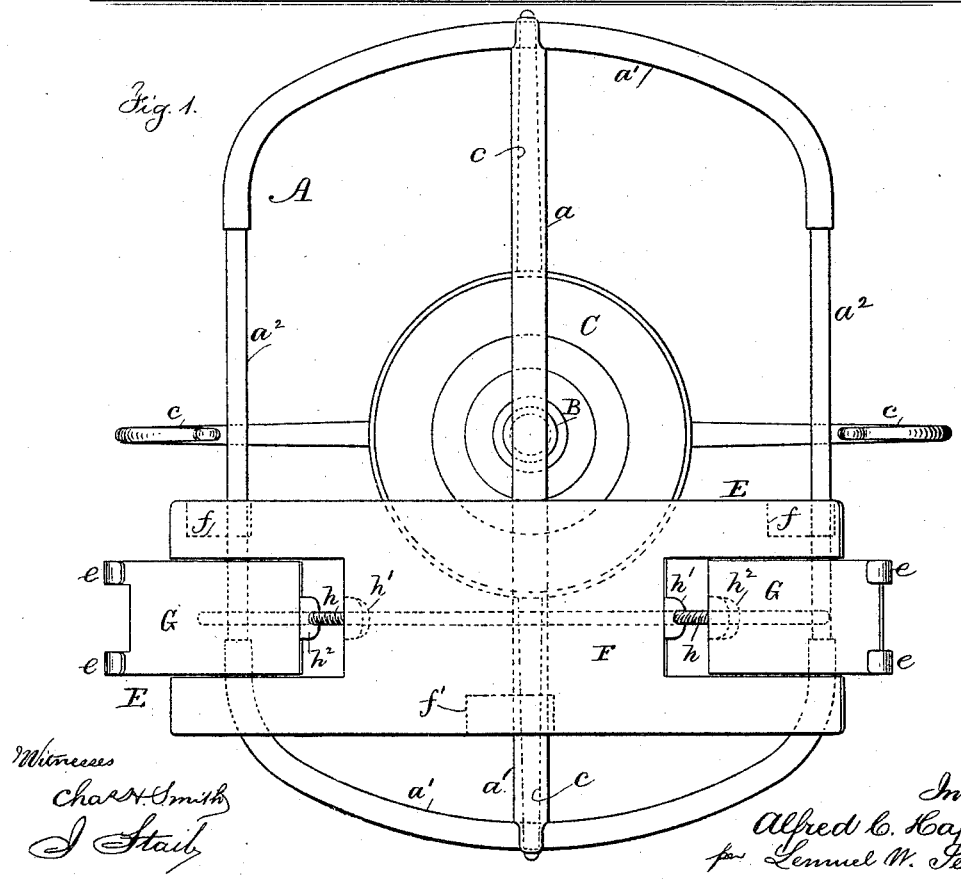


Fig. 7.

Fig. 1.



Witnesses
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per Lemuel W. Serrell atty

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(No Model.) 2 Sheets—Sheet 2.

A. C. HAFELY.

BOOK HOLDER.

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Fig. 3.

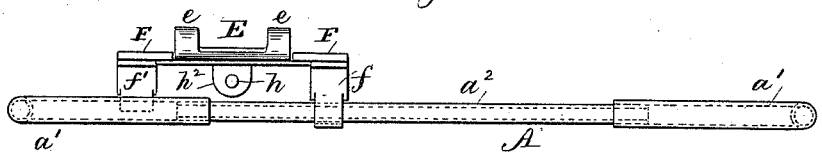


Fig. 4.

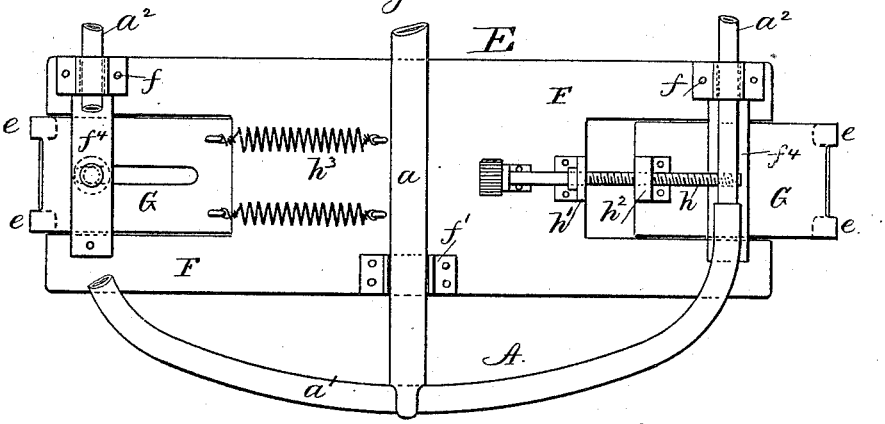


Fig. 5.

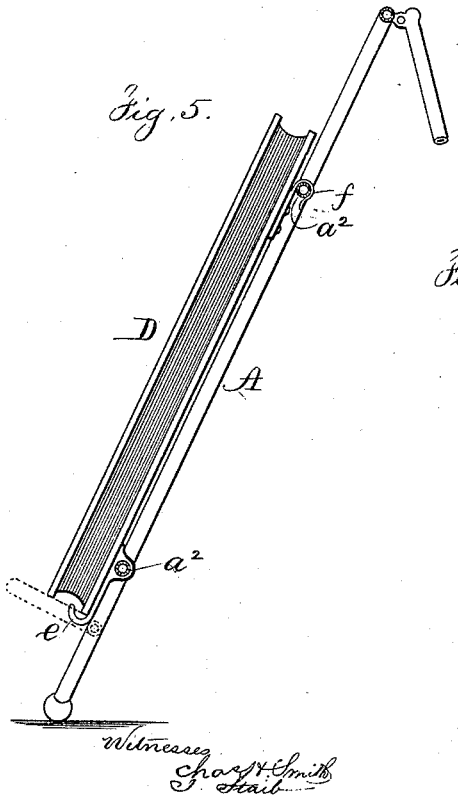
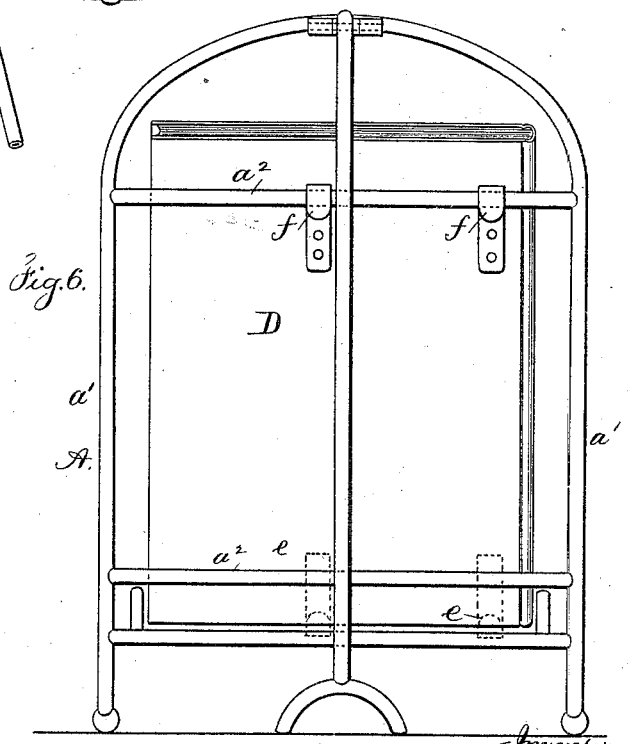


Fig. 6.



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UNITED STATES PATENT OFFICE.

ALFRED C. HAFELY, OF NEW YORK, N. Y.

BOOK-HOLDER.

SPECIFICATION forming part of Letters Patent No. 342,006, dated May 18, 1886.

Application filed May 1, 1885. Serial No. 164,149. (No model.)

To all whom it may concern:

Be it known that I, ALFRED C. HAFELY, of the city, county, and State of New York, have invented an Improvement in Book-Holders, of which the following is a specification.

The present improvement relates to a means by which albums and other books can be supported in a position convenient for reading or for examining the pictures contained therein.

In my improvement I provide for holding one of the book-covers, preferably the back one, firmly; also for sliding the book laterally upon the stand or rest, so that when the book is closed it may occupy a central position upon said stand, and when the book is to be opened the same is slipped laterally upon the stand, and opens out and rests with uniformity upon such stand, and when this stand is applied to a pivoted base the book holder and stand can be revolved upon such base.

In the drawings, Figure 1 is a plan view of the holder complete. Fig. 2 is a section through the frame of the holder and through one of the hooks. Fig. 3 is an elevation endwise of the holder in the direction of the arrow, Fig. 2, showing the upper edge of the frame. Fig. 4 is an inverted plan of the holder in a slightly-modified form, showing also part of the frame. Fig. 5 is a section, and Fig. 6 a rear view, of the holder adapted to a frame in the form of an easel. Fig. 7 is a detached view of a spring-holder to allow a yielding motion in opening the book.

The rest A, upon which the book is sustained, is shown in Fig. 1 as an elliptical frame having a central supporting-bar, a, end bars or tubes, a', and slides a^2. In this form of holder the central bar, a, is preferably rigidly connected with a socket, B, that passes over a vertical pivot-pin extending up from the base C, the same being supported by the legs c.

The holder is adapted to support in a definite position one cover of the book. I have shown the book at D, Figs. 5, 6, and 7.

The holder E is attached to the book-cover, and it is provided with a rest, F, upon which the book is laid. This rest can be moved laterally upon the bars a^2, so that the book may occupy a central position to the holder when closed, as seen in Fig. 6, or it may be slipped laterally and opened, and will occupy a central position upon such stand when opened. The slides f are beneath the rest F and rest upon the bars a^2, and the slide f' is also beneath the rest F and is upon the bar a. The two slides f are near one edge of the rest F, and the slide f' is near the other edge of the rest F. This steadies the rest and the book, and allows the said rest to be slipped toward one end of the frame A when the book is to be opened.

The hooks e are adapted to grasp the edges of the book-cover at top and bottom and hold the same firmly. This allows for the insertion or removal of a book; but, as hereinafter described, the frame of my said book-rest is adapted to receive a holder that is connected directly to the book, the sliding motion, before described, of the holder upon the frame being the same when the frame is in the form shown in Figs. 5 and 6 as it is in the form shown in Figs. 1 and 2.

Where the book-stand is adapted to supporting the book at the lower edge of the cover, the hooks e may be rigid, as shown in Fig. 5; but usually these hooks will be movable, to accommodate different sizes of books. In this case I prefer to form the hooks e upon the ends of the plates G, which plates are received into openings in the plate F and rest upon the cross-bars f^4, and they are moved in and out by a screw, h, passing through the guide-blocks h' and acting upon nuts h^2, fastened to the respective plates G.

In Fig. 2 the screw h is represented with right and left hand threads near its ends, so as to act upon both plates G simultaneously in moving them in or out to grasp or release the book-cover.

In Fig. 4 I have shown springs h^3 taking the place of one end of the screw and allowing the plates G and hooks e to be moved rapidly by hand.

After the book has been laid upon the holder and grasped, as aforesaid, it is held firmly in position; but with some books—especially albums—the sheets are not easily opened out flat if one cover of the book is firmly held against the rest or support. I therefore provide a yielding connection that allows the

cover to rise slightly, especially at the edge of the cover that is connected to the back. With this object in view the plates G are made of thin spring metal in the body portion, and under the strain applied to them by the book-cover in opening the book they will spring up into the position shown by dotted lines, Fig. 2, thus accommodating the holder to the position which the book properly assumes when opened out. When the parts *f*, that slide upon the bars a^2 in moving the book laterally, are fastened directly to the book itself, as indicated in Figs. 5 and 6, this yielding motion can be allowed for by elongating the portion that extends along and in contact with the book-cover, similar to the plates G, so that they become springs; but I sometimes employ helical springs 2 upon studs 3, the studs being fastened to the holding device that is attached to the book, and pass through the plate F, the springs 2 being between the plate F and the heads of the studs 3, as shown in the detached Fig. 7. In this case the plates G may be fastened directly to the book, or they may extend in the form of hooks, as shown by dotted lines in Fig. 7.

It will be apparent that the frame A need not be made of tubes or bars, as it may be a plate or casting with slots or ribs for the slides *f f*.

I do not claim a book-rack in which end pieces are brought up against the line of closed books upon a support by a spring; neither do I claim spring-clamps for holding plates and other articles and allowing them to be revolved; nor music holders or racks acting by spring-pressure upon opposite edges of books or sheets; nor a book-holder in which the edges of both covers are held in jaws capable of lateral motion upon a frame; nor slotted bands through which the book-cover or other article is introduced.

Where the clamping devices are applied to both the covers, there is no device by which the book can be supported by one cover only, and hence the book cannot be opened and closed in the ordinary manner.

By my improvement, the clamping and supporting devices being applied to the back cover only, the book can be moved laterally, as desired, so as to be in the proper position on the stand and opened or entirely closed, the front cover being free.

I claim as my invention—

1. The combination, with a rest upon which the book is to be laid, of a holder adapted to hook upon and grasp the edges of one cover, and mechanism, substantially as specified, for drawing the parts of the holder toward each other and clamping the edges of the cover, substantially as specified.

2. The combination, with a book-stand, of clamps adapted to grasp the opposite edges of one cover of the book, a screw to draw said clamps toward each other, and a rest upon which the book is laid, substantially as specified.

3. The combination, in a book-holder, of clamps and a screw for holding one cover of the book, supporting and attaching slides, and a frame or bars for the slides, upon which the book can be moved laterally, and a stand or rest for supporting the parts, substantially as specified.

4. A holder for grasping and holding one of the book-covers, and slides or a frame of bars composing the stand, and upon which frame the book and holder can be moved laterally, in combination with a base or support and a pivot connected with the frame forming the book-stand, substantially as specified.

5. A book-stand formed of an elongated frame upon which the book rests when open, a single holder for connecting and supporting one cover only of the book, the other cover being free, and slides upon the said holder that rest upon the frame, said slides and holder allowing the book to be moved to occupy a central position on the stand, whether open or shut, substantially as specified.

6. A book-holder and means, substantially as specified, for connecting the same to one cover only of a book to support the same, the other cover being free, a frame upon which the holder rests, and slides to connect the holder to the frame and allow of lateral motion, substantially as set forth.

7. The combination, with a book-holder to be connected to the cover of the book, of a rest or stand for the book and springs interposed between the holder and the stand for allowing the holder to yield as the book is opened, substantially as set forth.

Signed by me this 28th day of April, A. D. 1885.

ALFRED C. HAFELY.

Witnesses:
GEO. T. PINCKNEY,
WILLIAM G. MOTT.