

**Jan. 22, 1952**

H. C. HEIMANN

**2,583,097**

STUDENT'S BOOKHOLDER

Filed Oct. 29, 1948

2 SHEETS—SHEET 1

Fig. 1.

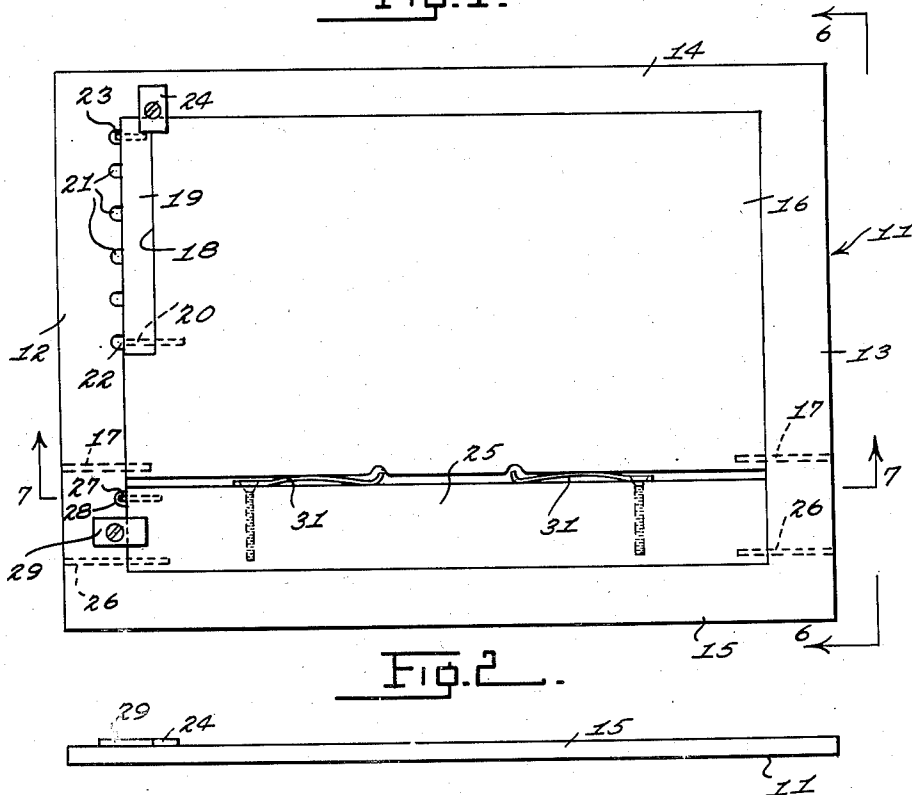
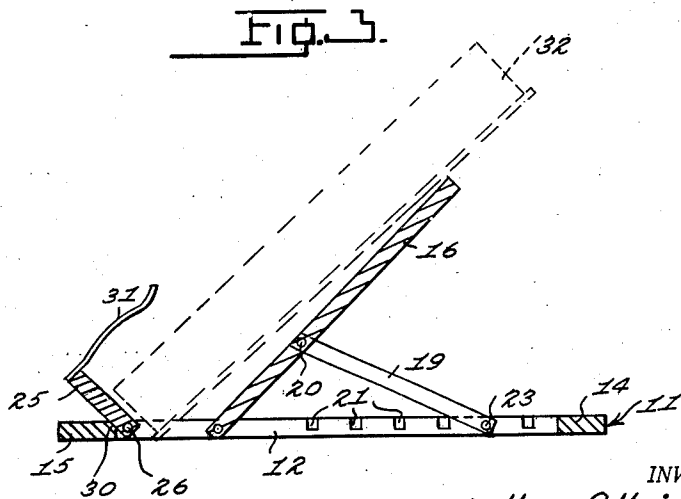


Fig. 2.



INVENTOR.

Henry C. Heilmann

*BY*

*McMorrow, Berman & Davidson*  
ATTORNEYS

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2 SHEETS—SHEET 2

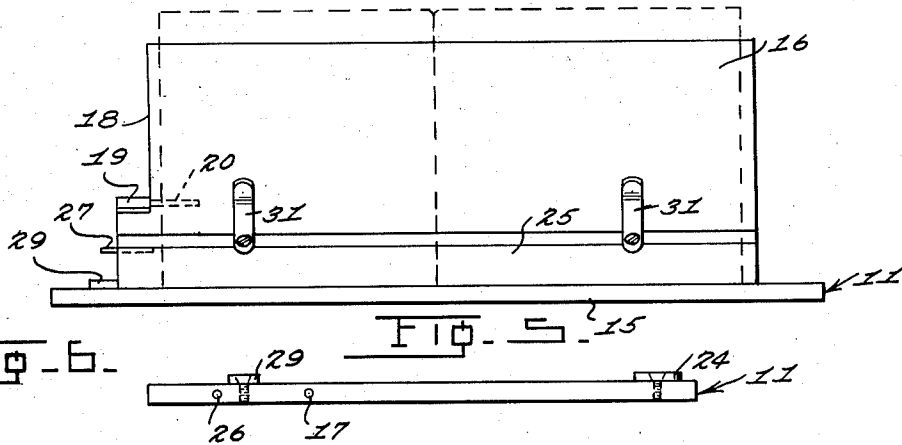
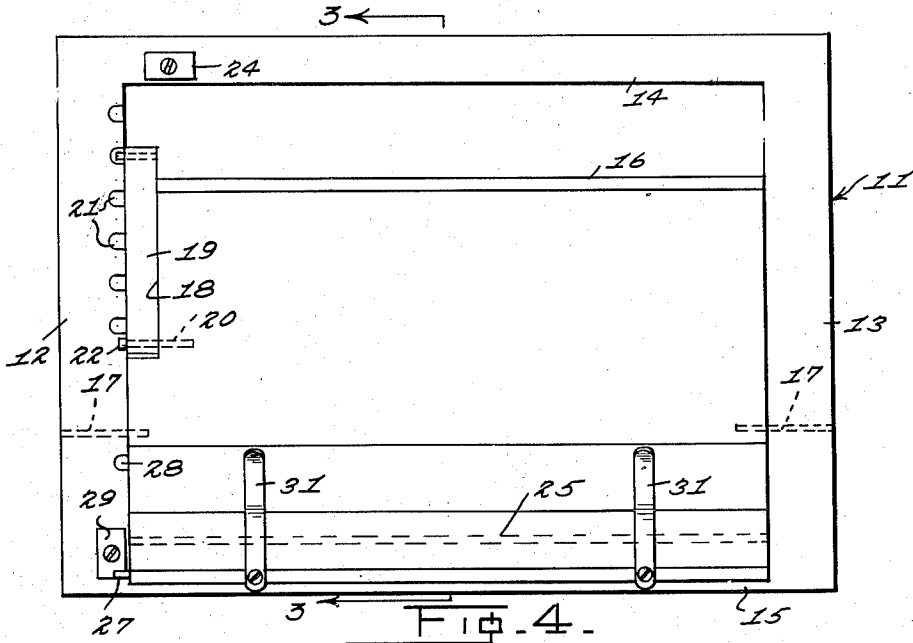


Fig. 6.

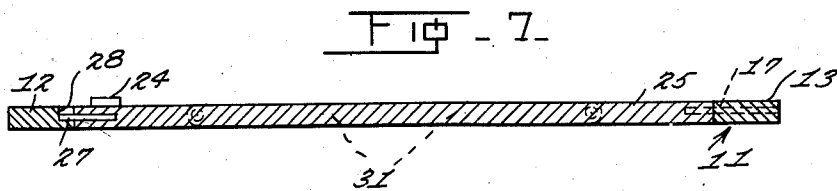


Fig. 7.

INVENTOR.  
Henry C. Heimann  
BY

McMorrow, Berman + Davidson  
ATTORNEYS

## UNITED STATES PATENT OFFICE

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## STUDENT'S BOOKHOLDER

Henry C. Heimann, Ames, Iowa

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5 Claims. (Cl. 45—80)

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This invention relates to book holders, and more particularly to a book holder of the folding type which may be employed on a table or desk to hold a book in open position at a desired angle for reading.

A main object of the invention is to provide a novel and improved book holder which is very simple in construction, easy to set up for use, and which may be folded to a compact flat condition so that it may be readily carried in a student's brief case or other receptacle.

A further object of the invention is to provide an improved adjustable book holder which may be used for holding a book in open position at a desired angle, thereby preventing eye strain, said book holder being very inexpensive to manufacture, rugged in construction, and being foldable to a very compact size.

Further objects and advantages of the invention will become apparent from the following description and claims, and from the accompanying drawings, wherein:

Figure 1 is a top plan view of a book holder constructed in accordance with the present invention, shown in folded position.

Figure 2 is a front elevational view of the book holder of Figure 1.

Figure 3 is a transverse cross-sectional view taken through the book holder in operative position, said view being taken on line 3—3 of Figure 4.

Figure 4 is a top plan view of the book holder shown set up for use.

Figure 5 is a front elevational view of the book holder in the position of Figures 3 and 4.

Figure 6 is a side elevational view of the book holder in folded position, said view being taken on line 6—6 of Figure 1.

Figure 7 is a cross-sectional view taken on line 7—7 of Figure 1.

Referring to the drawings, 11 designates a flat rectangular frame comprising the side elements 12 and 13, and the respective longitudinal elements 14 and 15. Designated at 16 is a generally rectangular flat plate member which is hinged secured within the frame 11 by respective pin members 17, 17 secured in the side elements 12 and 13 and projecting into the lower forward corner portions of said plate member, as shown in Figure 1. One side of plate member 16 is formed with a notch 18 extending forwardly from the top corner of the plate member, as viewed in Figure 1, for a substantial distance along said side. Pivotal secured in said side recess 18 by means of a pin member 20 is a strut

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member 19, said pin member being located at the forward end of the strut member, as viewed in Figure 1. The margin of side element 12 is formed with a plurality of spaced recesses 21 located adjacent the strut member 19, as viewed in Figure 1, and the hinge pin 20 has an outwardly projecting head portion 22 which is engageable in the initial recess 21. Projecting outwardly from the free rear end of strut member 19 is a pin member 23. Pin member 23 is engageable in the rearmost recess 21 when the device is in the collapsed position shown in Figure 1. Pivotal secured to rear frame element 14 adjacent the joint between strut member 19 and the wall of recess 18 is a clip member 24 which may be rotated to overlapping position with respect to both strut member 19 and plate member 16, as shown in Figure 1, to lock these members within the frame 11.

Designated at 25 is a relatively narrow plate member which is hinged at its forward corner portions, as viewed in Figure 1, to the side elements 12 and 13 by means of pin members 26, 26 secured in said side elements and projecting into the plate member 25. As shown in Figure 1, plate member 25 is receivable in the frame 11 subadjacent the forward margin of plate member 16. Projecting laterally from a rear corner portion of plate member 25 is a pin 27 receivable in a recess 28 formed in the side element 12. Pivotal secured to said side element 12 is a clip member 29 which is rotatable to a position overlying plate member 25, whereby the plate member may be locked in the frame 11. When clip member 29 is rotated 90 degrees from the position shown in Figure 1, the plate member 25 may be elevated to the raised position thereof shown in Figure 3 wherein it is supported by abutment with the upper edge of frame element 15, said edge being bevelled as shown at 30 to allow the plate member 25 to assume a forwardly angled position.

Pivotal secured to the rear edge of plate member 25, as viewed in Figure 1, are a pair of spring arms 31, 31, normally housed in the space between the rear edge of member 25 and the forward edge of member 16. These spring arms may be rotated to upstanding positions, as shown in Figures 3 to 5.

In the inoperative position of the device, all the parts are housed within the frame 11, as shown in Figures 1 and 2, providing a flat object which may be readily carried in a brief case or the like. To set up the device for use, the clip members 24 and 29 are rotated 90 degrees from

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the positions shown in Figure 1. Plate member 25 is rotated upwardly to the forwardly directed inclined position shown in Figure 3, wherein it abuts the bevel 30. Plate member 16 is elevated to a desired rearwardly directed angular position and the pin 23 of strut member 19 is engaged in one of the recesses 21 to support said plate member in its elevated position, as shown in Figures 3 and 4. A book shown at 32 in dotted view may then be supported on the device in the manner shown in Figure 3, the spring arms 31 being elevated so that the pages of the book will be held open thereby. The angular position of the book may be adjusted by the selection of a suitable recess 21 for the reception of pin 23.

The various parts of the device may be made of any suitable material such as plastic, wood, metal, or the like.

While a specific embodiment of an adjustable book holder has been disclosed in the foregoing description it will be understood that various modifications within the spirit of the invention may occur to those skilled in the art. Therefore it is intended that no limitations be placed on the invention except as defined by the scope of the appended claims.

What is claimed is:

1. A book holder comprising a flat frame formed with a rectangular opening defining end members and front and rear longitudinal side members, a main rectangular plate of substantially the same length as and narrower than said frame opening and positioned rearwardly within said frame opening and leaving a longitudinally elongated space between the front edge of said main plate and the front longitudinal side member of the frame, a secondary rectangular plate positioned within and substantially filling said elongated space, first means pivoting said main plate to the frame end members on an axis parallel to and near the front edge of said main plate, second means pivoting said secondary plate to the frame end members on an axis parallel to and near the front edge of said secondary plate, said main plate being swingable upwardly out of said frame opening to book supporting position and said secondary plate being swingable upwardly and forwardly to rest upon the front longitudinal frame side member in book holding position, and strut means pivoted on said main plate to engage a portion of said frame to maintain said main plate in book supporting position, lateral stop pins projecting from end edges of said main and secondary plate engageable with recess means formed in the upper side of a frame end member whereby said plates are prevented from subsiding below flush relation to said frame when in folded positions in said frame opening.

2. A book holder comprising a flat frame formed with a rectangular opening defining end members and front and rear longitudinal side members, a main rectangular plate of substantially the same length as and narrower than said frame opening and positioned rearwardly within said frame opening and leaving a longitudinally elongated space between the front edge of said main plate and the front longitudinal side member of the frame, a secondary rectangular plate positioned within and substantially filling said elongated space, first means pivoting said main plate to the frame end members on an axis parallel to and near the front edge of said main plate, second means pivoting said secondary

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plate to the frame end members on an axis parallel to and near the front edge of said secondary plate, said main plate being swingable upwardly out of said frame opening to book supporting position and said secondary plate being swingable upwardly and forwardly to rest upon the front longitudinal frame side member in book holding position, and strut means pivoted on said main plate to engage a portion of said frame to maintain said main plate in book supporting position, lateral stop pins projecting from end edges of said main and secondary plates engageable with recess means formed in the upper side of a frame end member whereby said plates are prevented from subsiding below flush relation to said frame when in folded positions in said frame opening, pivoted latch means on the upper side of said frame engageable with upper portions of said main and secondary plates for retaining said plates within the frame opening in opposition to said stop pins in the folded positions of said main and secondary plates.

3. A book holder comprising a flat frame formed with a rectangular opening defining end members and front and rear longitudinal side members, a main rectangular plate of substantially the same length as and narrower than said frame opening and positioned rearwardly within said frame opening and leaving a longitudinally elongated space between the front edge of said main plate and the front longitudinal side member of the frame, a secondary rectangular plate positioned within and substantially filling said elongated space, first means pivoting said main plate to the frame end members on an axis parallel to and near the front edge of said main plate, second means pivoting said secondary plate to the frame end members on an axis parallel to and near the front edge of said secondary plate, said main plate being swingable upwardly out of said frame opening to book supporting position and said secondary plate being swingable upwardly and forwardly to rest upon the front longitudinal frame side member in book holding position, and strut means pivoted on said main plate to engage a portion of said frame to maintain said main plate in book supporting position, lateral stop pins projecting from end edges of said main and secondary plates engageable with recess means formed in the upper side of a frame end member whereby said plates are prevented from subsiding below flush relation to said frame when in folded positions in said frame opening, the stop pin of said main plate being located in spaced relation to the rear edge of said main plate, an opening formed in an end edge of said main plate and extending rearwardly from a point forward of the main plate stop pin through the rear edge of the main plate, said strut means comprising a strut positioned in and substantially filling said opening and pivoted at its forward end on said main plate stop pin, a strut stop pin projecting laterally from the rear end of said strut, said strut stop pin being engageable with a portion on the upper side of the adjacent frame end member to prevent the strut from subsiding through the frame opening beyond flush relation with the frame and the main plate, said frame end member being formed on its upper surface with a plurality of pin receiving depressions in which said strut pin can be selectively engaged to hold said main plate in different upwardly swung book supporting positions.

4. A book holder comprising a flat frame formed with a rectangular opening defining end

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members and front and rear longitudinal side members, a main rectangular plate of substantially the same length as and narrower than said frame opening and positioned rearwardly within said frame opening and leaving a longitudinally elongated space between the front edge of said main plate and the front longitudinal side member of the frame, a secondary rectangular plate positioned within and substantially filling said elongated space, first means pivoting said main plate to the frame end members on an axis parallel to and near the front edge of said main plate, second means pivoting said secondary plate to the frame end members on an axis parallel to and near the front edge of said secondary plate, said main plate being swingable upwardly out of said frame opening to book supporting position and said secondary plate being swingable upwardly and forwardly to rest upon the front longitudinal frame side member in book holding position, and strut means pivoted on said main plate to engage a portion of said frame to maintain said main plate in book supporting position, lateral stop pins projecting from end edges of said main and secondary plates engageable with recess means formed in the upper side of a frame end member whereby said plates are prevented from subsiding below flush relation to said frame when in folded positions in said frame opening, the stop pin of said main plate being located in spaced relation to the rear edge of said main plate, an opening formed in an end edge of said main plate and extending rearwardly from a point forward of the main plate stop pin through the rear edge of the main plate, said strut means comprising a strut positioned in and substantially filling said opening and pivoted at its forward end on said main plate stop pin, a strut stop pin projecting laterally from the rear end of said strut, said strut stop pin being engageable with a portion on the upper side of the adjacent frame end member to prevent the strut from subsiding through the frame opening beyond flush relation with the frame and the main plate, said frame end member being formed on its upper surface with a plurality of pin receiving depressions in which said strut pin can be selectively engaged to hold said main plate in different upwardly swung book supporting positions, second pivoted latch means on the rear longitudinal frame side member engageable over said strut and said main plate in their folded positions to retain said strut and main plate within the frame opening.

5. In a folding book holder, a flat frame formed with a rectangular opening defining end members and front and rear side members, a

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main rectangular plate of substantially the same length as and narrower than said frame opening and positioned within said frame opening, said main plate being positioned in said frame opening with its rear edge close to the rear frame side member and its front edge spaced from the front frame side member thereby providing a relatively narrow space between the front edge of the main plate and the front frame side member extending the length of the frame opening, a secondary rectangular plate of substantially the same size and shape as and positioned within said space, first means pivoting said main plate to said frame end members on an axis near the front edge of said main plate and midway the upper and lower surfaces of said main plate and said frame, second means pivoting said secondary plate to said frame side members on an axis near the front edge of said secondary plate and midway between the upper and lower surfaces of said secondary plate and said frame, said main and secondary plates being thereby capable of assuming positions within said frame opening in their folded positions wherein the upper and lower surfaces of said main and secondary plates are flush with the upper and lower surfaces of said frame and the frame opening is filled by said main and secondary plates, said main plate being swingable upwardly and forwardly out of the frame opening into book holding position and said secondary plate being swingable upwardly and forwardly from the frame opening to rest upon the front frame side member in book holding position, and strut means pivoted to and nested in a side edge of said main plate to engage a portion of a frame end member to support the main plate in book holding position.

HENRY C. HEIMANN.

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