

1,267,358.

Patented May 28, 1918.
2 SHEETS—SHEET 1.

Fig. 1.

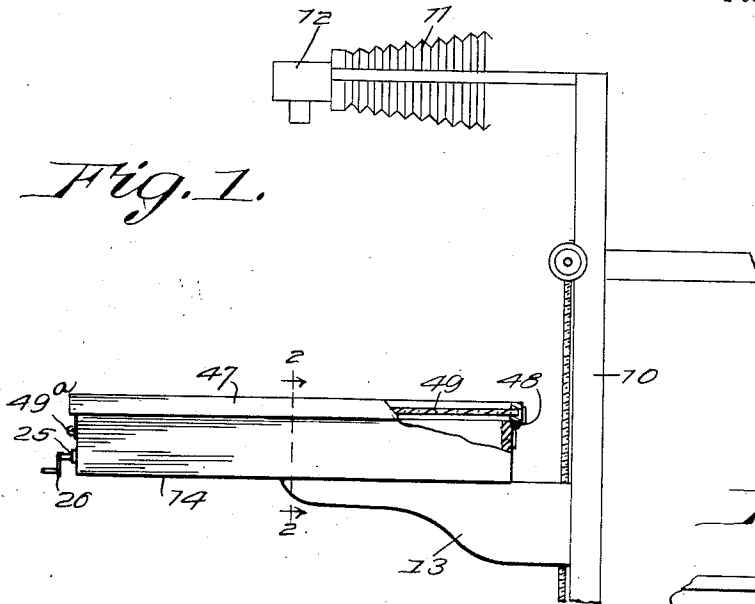


Fig. 2.

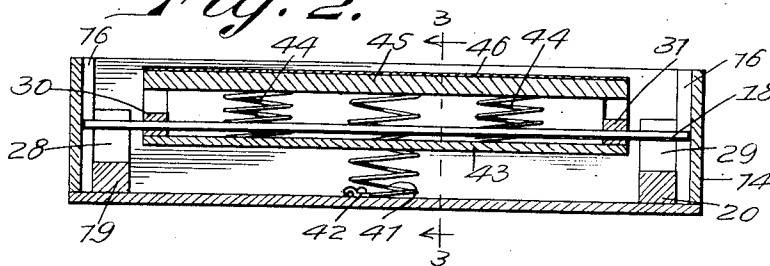
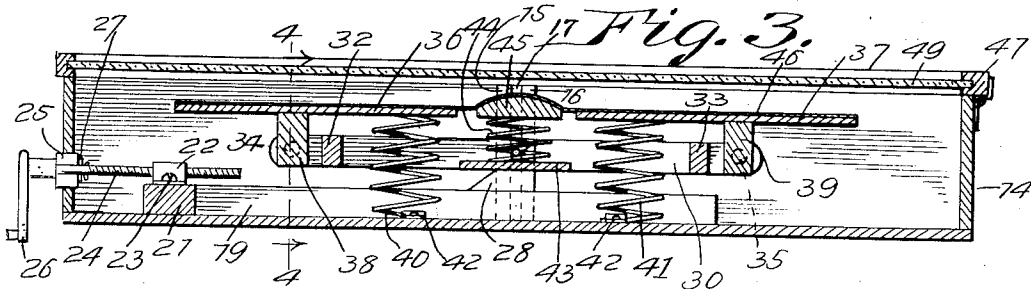


Fig. 3.

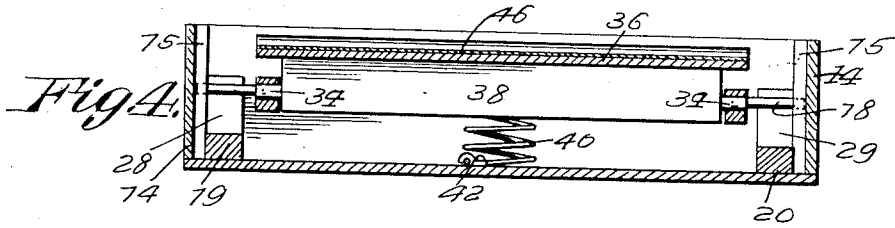
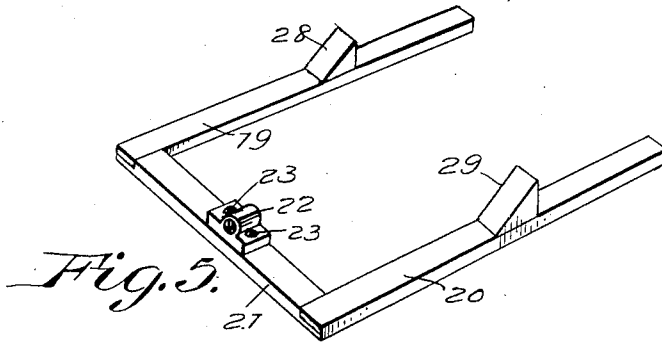
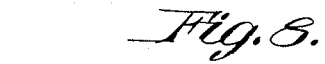
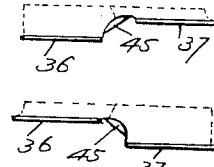
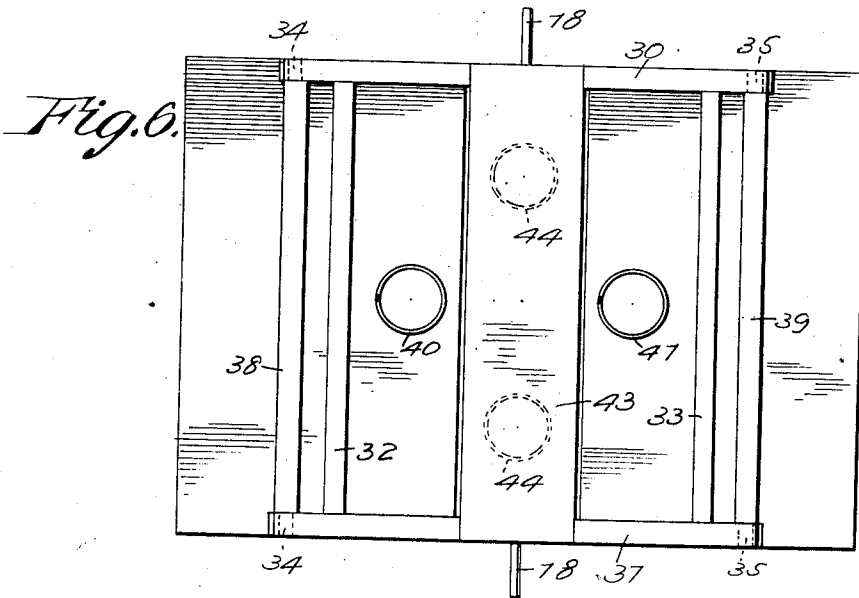


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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

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COPY-HOLDER.

1,267,358.

Specification of Letters Patent. Patented May 28, 1918.

Application filed June 11, 1914. Serial No. 844,515.

To all whom it may concern:

Be it known that I, GEORGE C. BEIDLER, a citizen of the United States of America, and resident of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Copy-Holders, of which the following is a specification.

This invention relates to copy holders and particularly to means for holding copy on a predetermined plane associated with yieldable means of novel character for urging the said copy toward a predetermined plane, the said invention furthermore including novel means for urging the two sides or parts of an open book toward a predetermined plane, the said urging means being yieldable to compensate for books of different thicknesses or for exposing the pages of an open book on the same plane, the invention further contemplating the provision of novel means for urging or pressing the hinged portion of the book to the said predetermined plane so that the inner margins or edges may be exposed.

A further object of this invention is to provide novel means for utilizing the copy holder in connection with books of different sizes in which the copy supporting elements may be moved outwardly and supported in different positions of adjustment.

The invention consists in the broad idea to be set forth in the claims during the prosecution of the application, the said claims to be of such scope as to give protection commensurate with the inventive act in view of the state of the art when the said invention was produced.

In describing the invention in detail, reference will be had to the accompanying drawings forming part of this specification, wherein like characters denote corresponding parts in the several views, and in which—

Figure 1 illustrates a view in elevation showing the copy holder in operative relation to a camera;

Fig. 2 illustrates a sectional view on the line 2—2 of Fig. 1 with the cover omitted;

Fig. 3 illustrates a sectional view through the copy holder on a line corresponding with the line 3—3 of Fig. 2;

Fig. 4 illustrates a transverse sectional

view of the copy holder on a line corresponding with the line 4—4 of Fig. 3;

Fig. 5 illustrates a perspective view of the means for moving the copy holder outwardly;

Fig. 6 illustrates an underneath plan view of a frame associated with the copy supporting tables;

Fig. 7 illustrates a detail view in plan of means for elevating the copy supporting members; and

Figs. 8 and 9 illustrate detail views showing the adjustments obtainable for retaining the copy such as books with the open leaves thereof in predetermined planes.

In these drawings 10 denotes a frame which may be a part of a photographing apparatus, in which a bellows frame 11, and lens box 12 are supported in operative relation to the copy holder. The frame 10 as here shown has a bracket 13 on which a base 14 of the copy holder is supported. The base of the copy holder may be of any construction to support the operating parts of the book holder and it is here shown as a substantially rectangular casing. Rising from the floor of the base, near the longitudinal center and at the side edges, are guides 15 and 16 arranged in pairs and spaced apart to form ways 17, that is to say there is a pair of guides at each side edge of the base and the guides form ways for a rod 18.

In the present embodiment of the invention, the base 14 further constitutes a support for the sliding sills 19 and 20 which are connected by a head 21. The head 21 is illustrated as having a block 22 secured to it by the screws 23 and a screw 24 is threaded in the block 22 for the purpose of communicating motion to the head and sills. A bearing 25 is provided as a support for the screw 24 and the outer end of the said screw has a crank handle 26 by which the screw is rotated. A cross pin 27 extends through the screw to prevent longitudinal movement of the said screw, thus causing the said screw to communicate motion to the head and sills when the said screw is rotated.

Blocks 28 and 29 are mounted on the sills 19 and 20 respectively and the said blocks have beveled faces forming cams which en-

gage the rod 18 and force the same outwardly from the base and permit it to move toward the base according to the direction of movement of the sills, and the rod 18 extends through side bars 30 and 31 of a frame which is movable with relation to the base. The side bars are connected by braces 32 and 33 and the side bars near their ends support pivots 34 and 35 on which the copy supporting tables or shelves 36 and 37 are respectively oscillatably mounted through the bearing bars 38 and 39 which extend respectively from the tables or supporting leaves 36 and 37. The manner in which the tables or leaves are mounted on the pivots is well shown in Fig. 3 of the drawing and for the purpose of normally pressing the tables or leaves outwardly, springs 40 and 41 are anchored to the base by means of clips 42, the outer ends of the said springs bearing against the inner surfaces of the leaves or tables 36 and 37 to force them outwardly.

Approximately centrally of the frame is a board or plate 43 holding a plurality of springs 44 through which the rod 18 extends and the said springs 44 engage a head or follower 45 which is pressed outwardly by the said springs. The outer surface of the follower 45 is convexed and is adapted to engage the hinges of books to press the book into an open position so that the open leaves as well as the hinged portion are pressed to a predetermined plane.

The head or follower 45 and the leaves or tables 36 and 37 are flexibly or hingedly connected by a strip of flexible material 46 extending over the outer surfaces of the leaves or tables and over the outer surface of the head, the said material being secured to said members as by an adhesive or in any other appropriate way.

The base is provided preferably with a cover which coacts with the copy supporting members and as here shown the cover consists of a frame 47 connected to the base by the hinges 48. The frame is constructed to support a transparent covering 49 such as glass, which is placed against the open leaves of the book or copy, so that said copy is retained in a predetermined plane and held thereagainst by the springs which are effective to force the copy holding members outwardly. The frame 47 may have a securing device or latch 49^a at the side thereof opposite the hinges, although in most instances the weight of the frame and covering is sufficient to retain these parts in proper position.

In the operation of the copy holder, the copy or book is placed in open position on the leaves or tables and in case of a book, the hinged portion of the book is supported by the head or follower 45. If the book is opened near its end and the leaves near

the front portion are greater than that near the rear portion, it follows that the two portions are of unequal thickness and therefore the book will assume the position shown in Fig. 8 of the drawing where the back of the rear portion is supported at a plane above the plane of the back of the front portion, whereas the head or follower is in the diagonal position with relation to the tables or supports, so that the hinged portion of the book is likewise forced outwardly.

In Fig. 9 is illustrated the adjustment of the parts when the rear portion of the book is thicker, in which relation of parts, it will be seen that the head or follower is moved to an angle different from that in which it appears in Fig. 8, but in which it performs the same function of pressing the hinged portion of the book outwardly. The parts are permitted to assume these different positions of adjustment by reason of the flexible connection between them, their coacting relation, etc.

The support for the book is adjustable to compensate for books of different thicknesses by reason of the yieldable character of the supports and furthermore by reason of the adjustable sills which carry the blocks as said blocks force the rod 18 outwardly or allow the said rod to move inwardly and the said sills are positively actuated in either direction through the manipulation of the screw.

While I have shown the base as assuming a horizontal position, it may be used in vertical position or at different angles with relation to the vertical or horizontal so that it may be properly positioned with relation to the lens or photographing apparatus.

The illustration and foregoing description is utilized for the purpose of disclosing one embodiment of the invention and it may be regarded as I view it, as the preferred form.

It is observed that in the specification, the term "book hinge" is used and that provision is made for exerting pressure on the so called book hinge. In using the term just stated, I wish to be understood as referring to the flexible portions of books between the covers or backs of the books known in the trade as the binding edges of the books and the said term may also refer to any joint, junction or union between leaves of books or pages of copy where one leaf or page of copy is permitted to be opened with relation to the other page or leaf.

I claim—

1. In a copy holder, copy holding tables, a book hinge pressing head, the said tables and head coacting to support a book in open position, and means for urging the coacting book supporting parts to predetermined planes.

2. In a copy holder, copy holding tables

and a pressing head coacting as supports for a book in open position, a flexible connection between the head and the tables, and means for urging the book supporting members outwardly to predetermined planes.

3. In a copy holder, copy holding tables and a pressing head coacting as supports for a book in open position, means for urging the head against the hinge of the book, means for urging the tables to move the book outwardly, means for oscillatingly supporting the tables, and a member for limiting the movement of the urged portions of the book.

4. In a copy holder, copy holding tables and a pressing head coacting as supports for a book in open position, means for oscillatingly supporting the head, means for moving the tables outwardly and a member for limiting the outward movement of the book.

5. In a copy holder, copy holding tables and a pressing head coacting as supports for a book in an open position, means for oscillatingly supporting the head and for moving it outwardly, means for forcing the copy holding tables outwardly, and a member for limiting the outward movement of the book.

6. In a copy holder, a base, a member slidable on the base, means for moving the said member on the base, a frame, means on

the sliding member for moving the frame outwardly with relation to the base, copy supporting members carried by the frame comprising tables and a pressing head coacting to support a copy, and means for yieldingly holding the said copy supporting members with relation to the frame.

7. In a copy holder, copy holding tables and a pressing head, a flexible facing strip connecting the tables and head, means for urging the tables outwardly, means for urging the head outwardly, and means for engaging the copy supported by the tables and head for limiting the outward movement of the copy.

8. In a copy holder, a copy holding table and a pressing head coacting to support a book in open position, means for pressing the head against a hinge of a book, means for pressing the table outwardly, and means for limiting the movement of the pressed members.

In testimony whereof, I affix my signature in the presence of two witnesses.

GEORGE C. BEIDLER.

Witnesses:

C. F. SCHMIDT,
R. B. LA FORCE.