Nov. 4, 1930. H. J. DUMBEN 1,780,872

BOOK RACK OR SUPPORT

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Fig. 1.

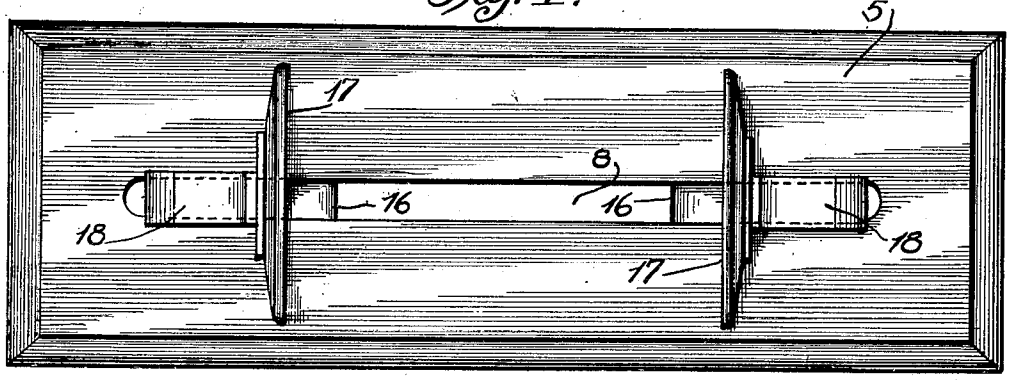


Fig. 2.

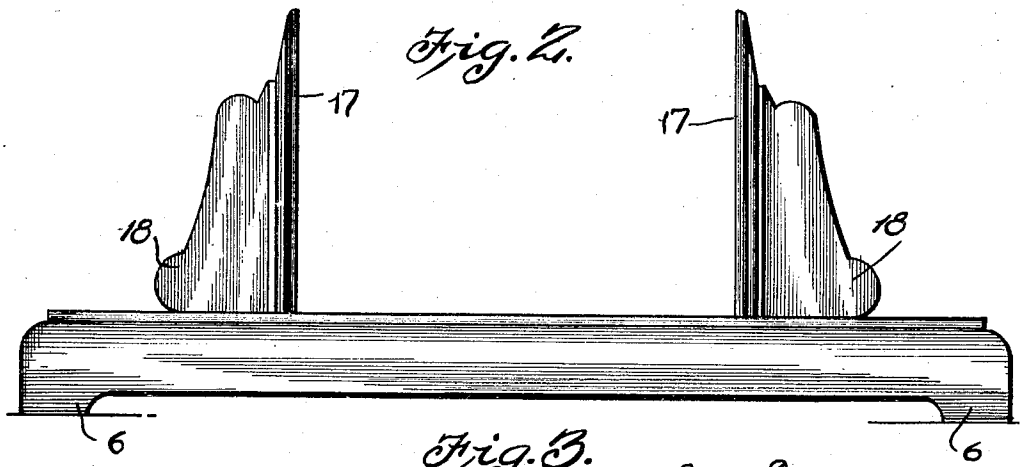
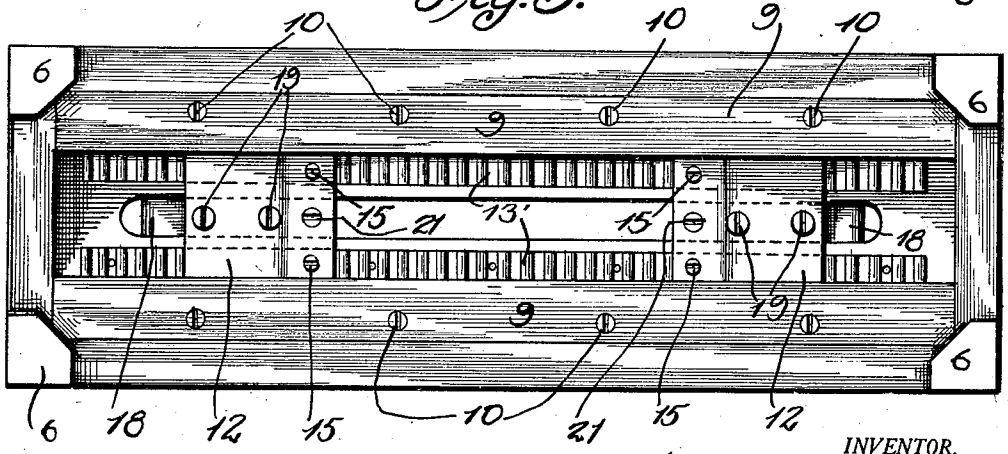


Fig. 3.



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Fig. 4

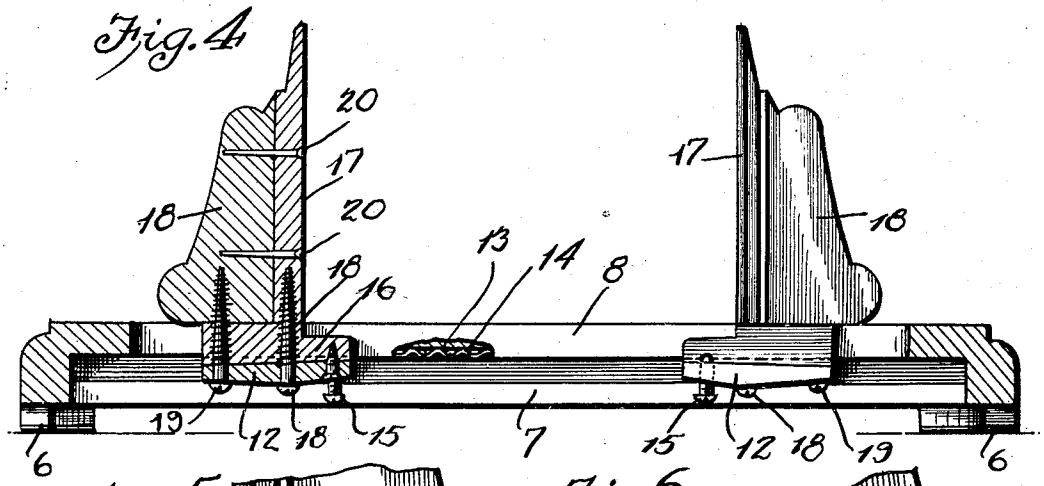


Fig. 5.

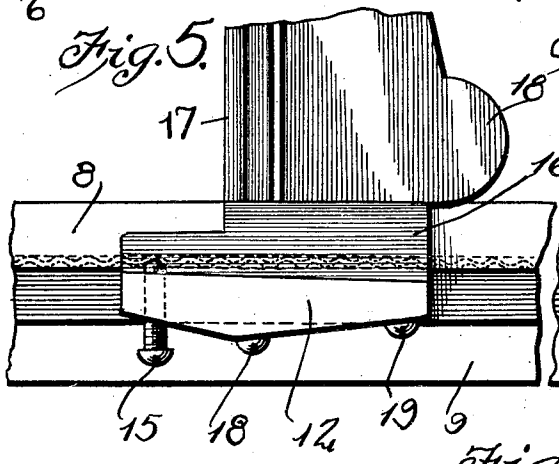


Fig. 6.

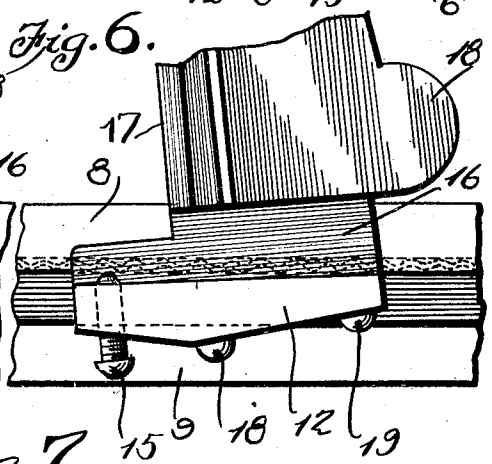
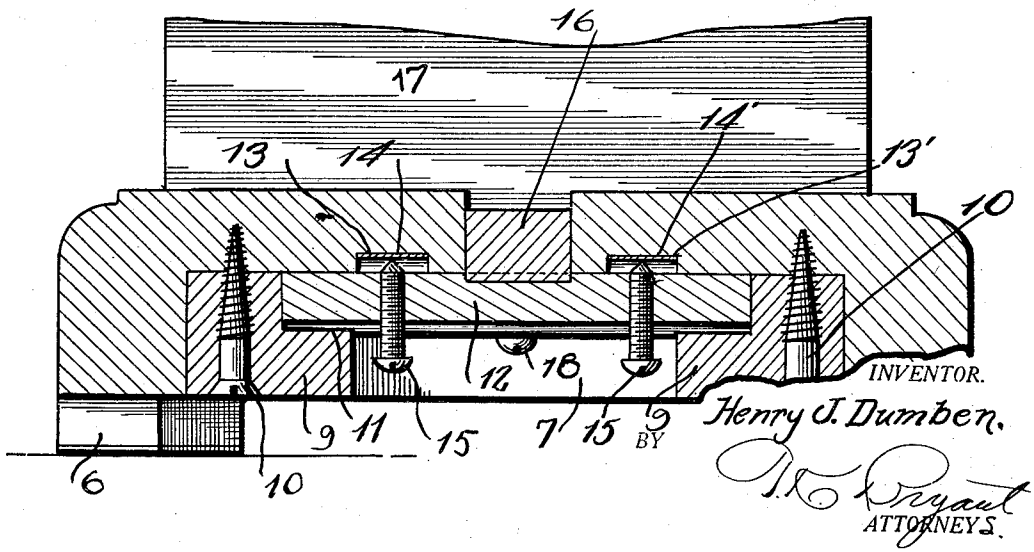


Fig. 7.



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UNITED STATES PATENT OFFICE

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BOOK RACK OR SUPPORT

Application filed December 28, 1928. Serial No. 329,031.

This invention relates to improvements in book racks or supports, particularly of the adjustable type.

The primary object of this invention is to provide a device of the above mentioned character in which the book ends are movable relative to each other for the purpose of accommodating and supporting a plurality of different sized books of different thicknesses.

A still further object of this invention is to provide a device of the above mentioned character, which is adapted to be set or adjusted in position relative to the books to be supported and held firmly in this manner.

A still further object of this invention is to provide an adjustable book rack of the above mentioned type in which means is provided for holding the relative book ends in adjusted or set position after they have been placed in such.

A still further object of this invention is to provide a device of the above mentioned type which is comparatively easy in construction and which is simple in operation.

Other objects and advantages of the invention will become apparent during the course of the following description, forming a part of this specification, and in which the like reference characters are employed to designate like parts throughout the same, and in which,

Figure 1 is a top elevational view of the invention;

Figure 2 is a side elevational view of the invention, showing the book ends in spaced relation;

Figure 3 is a bottom elevational view showing the arrangement of the rack bars for holding the book end supports in their adjusted position;

Figure 4 is a longitudinal cross-sectional view of the device, showing the arrangement and construction of the base support and book end supports;

Figure 5 is a fragmentary longitudinal cross-sectional view showing one of the book supports in its operative position;

Figure 6 is a similar view showing the book end support in its inoperative position; and

Figure 7 is a fragmentary cross-sectional view through one of the book end supports shown in the novel arrangement and construction of the several parts of the invention.

For the purpose of illustrating the invention, attention is called to the drawing, wherein is shown a supporting base 5 having supporting legs 6 formed integral therewith at opposite ends thereof. The base 5 is longitudinally undercut as at 7 to form a housing for the operative parts of the book end supports and to hide them from view. The base 5 is provided with a longitudinal slot 8 which extends nearly the full length of the base 5 and which may be designed at the ends thereof. The slot 8 communicates with the longitudinal cut away portion 7 in the bottom of the base 5 and in which is placed a pair of grooved wooden strips 9 held in position by wood screws 10. The longitudinal grooved strips 9 have one of their corners as at 11 cut away to form a suitable guideway for the complementary book end support guide pieces 12. There is a clearance between each of the guide pieces 12 and the grooves 11 formed between the longitudinal strips 9 and book support base for accommodating a floating movement of the strips 12, the function of which will be described in a later paragraph.

In the top wall of the cut away portion 7 is formed longitudinal openings 13 and 13′ on opposite sides of the longitudinal slot 8. The slotted portions 13 and 13′ are adapted to have their top wall lined with a strip of corrugated metal 14 and 14′. A pair of adjusting screws 15 are adapted to be passed through the sliding supporting member 12 and the ends of the screws 15 are adapted to project through the opposite sides of the slidable supporting members 12 into the corrugated openings for the purpose of holding the sliding support 12 in an adjusted position. It is to be noted that the screws 15 for the adjusting purposes are placed near the side of the support upon which the books are adapted to be placed so that when they

are tilted in one direction they will be raised into engagement with the series of corrugations and thereby be locked into position.

Slidably mounted in the longitudinal slot 8 of the base support 5 is a pair of blocks 16 which are provided for the purpose of supporting the book ends 17 and for supporting the bracing members 18 employed for bracing the book end supports 17. The slidable blocks 16 are secured to the floating members 12 by screws 18 which may be long enough to project into the book end supports 17 for holding the same to the slidable blocks 16. Screws 19 are employed for securing the slidable block 16 and the slidable floating member 12 to the bracing members 18 which may be secured to the book end supports 17 by suitable fastening means such as nails 20. The slidable floating member 12 may be further secured to the sliding block 16 by screws 21.

It will be carefully noted that by providing the construction set forth with a pair of floating blocks 12 for securing the book end supports 17 in adjusted position that such a construction makes it possible for the weight of the books and the longitudinal stresses caused thereby to lock the book end supporting devices 17 in any adjusted position desired. When pressure is applied to the opposite faces of the book end supports 17, the sliding floating members 12 are tilted and the forward portion thereof is tilted into engagement with the series of corrugated openings thereby bringing the adjusting screws 15 into engagement therewith and locking the book end supporting devices in adjusted position.

When it is desired to release the book ends, pressure is merely exerted upon the brace members 18 thereby releasing the adjusting screws 15 from their seat in the series of corrugated openings 14 and 14′, thus allowing the book ends 17 to be moved in opposite directions.

It is to be understood, that various changes in the size, shape and arrangement of the parts embodying this invention may be resorted to without departing from the spirit of the invention, or the scope of the subjoined claims.

I claim:—

1. In a book support of the character described including an elongated base having a central longitudinal slot therein, a cut away portion formed in the underside of the elongated base, a pair of longitudinal strips having one of their ends grooved and secured in the cut away portion of the elongated base, a pair of sliding supporting members loosely mounted in the grooved portion of said longitudinal strips, a slidable block secured to each of the slidable supporting members, a book end support secured to each of the slidable blocks, and means associated with the slidable supporting member for holding the slidable supporting members in place relative to the elongated base.

2. In a book support of the character described including an elongated base having a central longitudinal slot formed therein, said base also having its underside cut away to form a housing for a pair of longitudinal blocks which are provided with grooved end portions, a pair of loosely mounted slidable blocks secured in the above mentioned grooved portions, a pair of blocks extending in the longitudinal slots, book end supporting devices secured to each of the slidable blocks, brace members secured to the slidable blocks for bracing the book end supports, and means secured to the slidable supporting members for holding the book end supports in adjusted position.

3. In a book support of the character described including an elongated base having a central longitudinal slot therein, said elongated base also having its underside cut away, a pair of grooved strips secured to the longitudinal sides of the cut away portion, a pair of loosely mounted slidable blocks secured in longitudinal openings in said blocks or strips, longitudinal corrugated surfaces formed on the bottom wall of the elongated base, a slidable block slidably mounted in the longitudinal slot adapted to be secured to the slidable supporting member, book end supports secured to each of the slidable blocks, and means carried by the slidable supporting blocks for holding the same into adjustment with the corrugated surfaces.

4. In a book support of the character described including an elongated base member having a central longitudinal slot therein, said elongated base member having its underside cut away, a pair of longitudinal strips secured to the longitudinal inner walls of the cut away portion, said longitudinal strips being formed with longitudinal cut away portions, said cut away portions being adjacent the upper wall of the longitudinal base, a pair of slidable supporting blocks loosely mounted in said cut away portion of the longitudinal strips, a book end supporting block projecting through the longitudinal slot and being connected to each of the slidable supporting members, book ends having their lower edges secured to the slidable blocks and pins secured to the slidable supporting members adapted to engage the corrugated strips.

5. In a book support of the character described, a base having a longitudinal slot therein, both end supports mounted on the base, a block depending from each support and extending through the slot, a plate attached to the block beneath the base, a corrugated strip on the under side of the base at each side of the slot, and pins projecting

upwardly from the inner end of the plate to engage the corrugated strips for holding the book ends in adjusted positions.

6. In a book support of the character described, a base having a longitudinal slot therein, both end supports mounted on the base, a block depending from each support and extending through the slot, a plate attached to the block beneath the base, a corrugated strip on the under side of the base at each side of the slot, and pins projecting upwardly from the inner end of the plate to engage the corrugated strips for holding the book ends in adjusted position, a pair of guides carried by the bottom of the base and upon which the plate rides.

7. In a book support of the character described, a base having a longitudinal slot therein, both end supports mounted on the base, a block depending from each support and extending through the slot, a plate attached to the block beneath the base, cooperating means on the opposed faces of the base and plate for holding the book end support in adjusted position, a pair of guides carried by the bottom of the base and upon which the plate rides, and the bottom of the plate having transverse angle facets respectively engageable with the guide strips when the book end is at rest or being shifted.

8. In a book support of the character described, a base having a longitudinal slot therein, both end supports mounted on the base, a block depending from each support and extending through the slot, a plate attached to the block beneath the base, a corrugated strip on the under side of the base at each side of the slot, pins projecting upwardly from the inner end of the plate to engage the corrugated strips for holding the book ends in adjusted position, a pair of guides carried by the bottom of the base and upon which the plate rides, and the bottom of the plate having transverse angle facets respectively engageable with the guide strips when the book end is at rest or being shifted.

In testimony whereof I affix my signature.

HENRY J. DUMBEN.