Aug. 17, 1937. G. C. HAGER ET AL 2,090,000

ADJUSTABLE AND DEMOUNTABLE BOOK STAND

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Fig. 1.

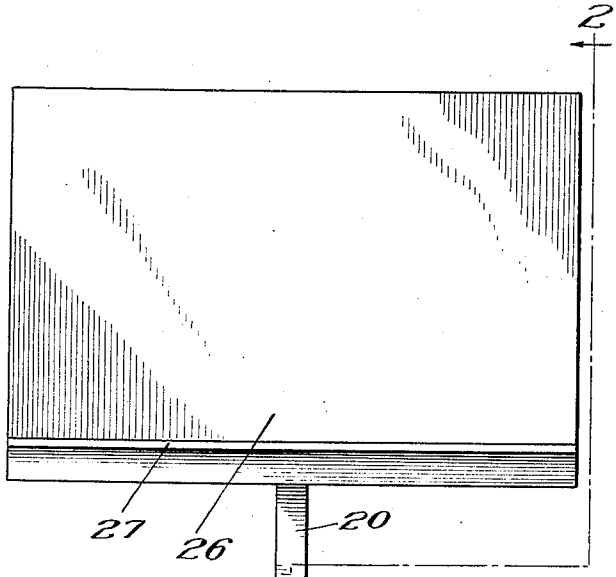


Fig. 2.

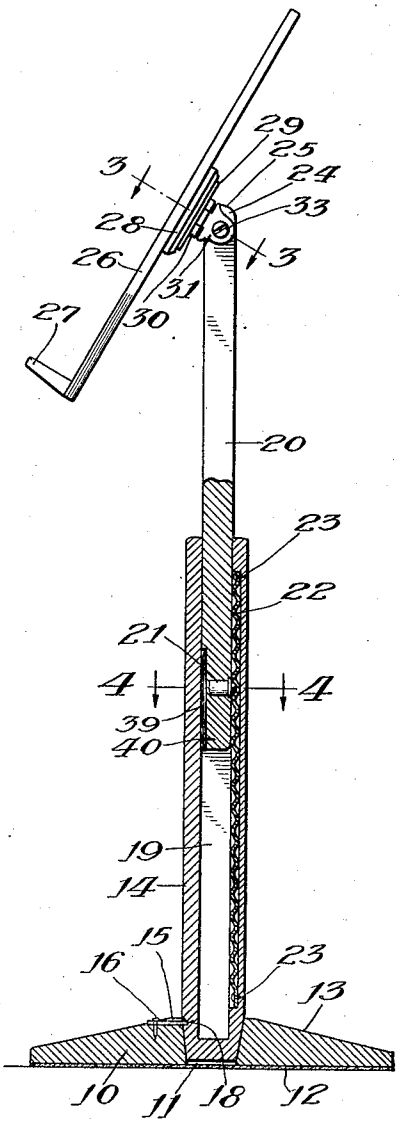


Fig. 7.

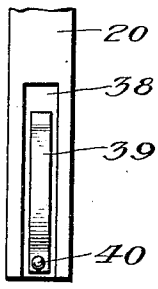


Fig. 8.

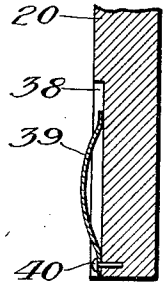
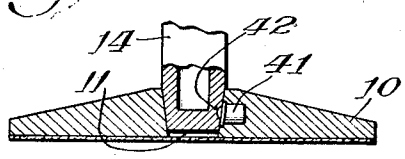


Fig. 9.



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Fig. 3.

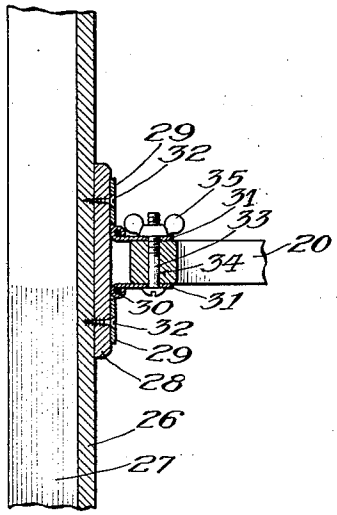


Fig. 4.

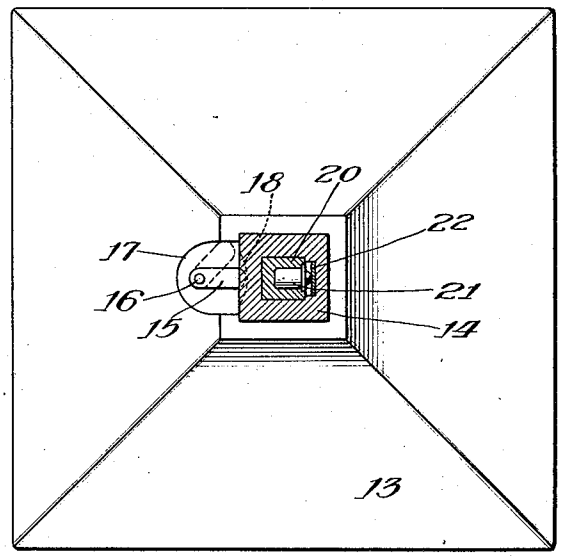


Fig. 5.

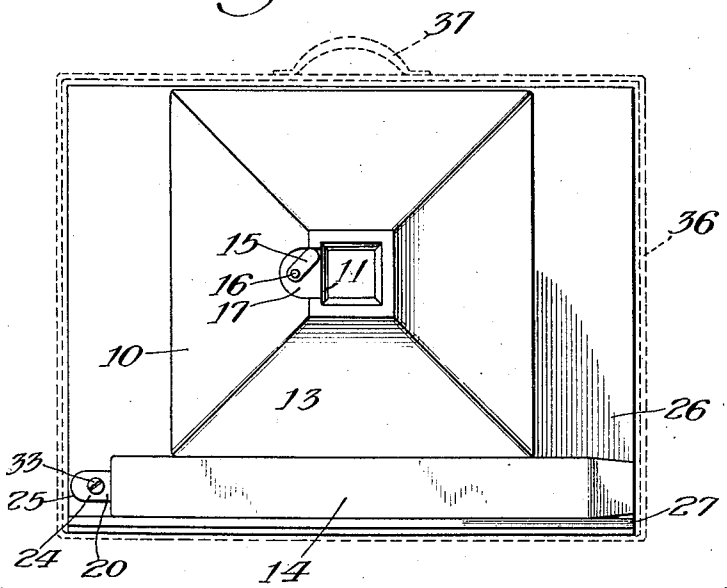
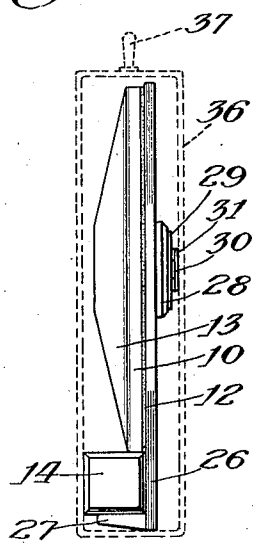


Fig. 6.



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ADJUSTABLE AND DEMOUNTABLE BOOK STAND

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Application March 16, 1936, Serial No. 68,976

1 Claim. (Cl. 45—60)

This invention relates to adjustable and demountable book stands particularly adapted for use by public speakers. The device may be placed upon a table or other support, and may be adjusted to support the book or paper rest in desired position for the convenience of the reader or speaker.

One of the objects of the invention is to provide a reading stand of the character described, which may be disassembled and packed into a relatively small container so that the user of the device may carry it conveniently when it is not in use.

Another object is to provide means for demountably and adjustably attaching the book rest to a standard, and means for demountably attaching the standard to a base.

In the drawings:

Fig. 1 is a front elevation of a book stand embodying our invention.

Fig. 2 is a side view, partly in section, taken in the planes of the line 2—2 of Fig. 1.

Fig. 3 is an enlarged view of a detail of construction, taken in the plane of the line 3—3 of Fig. 2.

Fig. 4 is an enlarged section taken in the plane of the line 4—4 of Fig. 2, looking downwardly.

Fig. 5 is a side view of the disassembled members, on the same scale as Figs. 1 and 2, showing them packed in a case.

Fig. 6 is an end view of the case and contents as arranged in Fig. 5.

Fig. 7 is an enlarged elevation of a detail of construction.

Fig. 8 is a vertical sectional view of the detail shown on Fig. 7.

Fig. 9 is a modified form of the base and lower end of the standard shown in section in Fig. 2.

In that preferred embodiment of our invention shown in the drawings, the book stand comprises a base 10, provided with a central recess 11, rectangular in horizontal section and preferably slightly smaller at its bottom than at its open top. The base 10 has a flat bottom surface protected by felt 12. The upper surface of the base 10 preferably is inclined upwardly from its edges toward the central recess 11, as indicated at 13.

A standard 14, preferably rectangular or square in cross section, has a lower end shaped to fit within the recess 11 of the base. Any suitable means for detachably securing the standard 14 to the base may be used. In Figs. 1 to 6 we have shown a lever 15 pivotally secured at 16 to a recessed portion 17 in the upper part of the base 10, adjacent the recess 11. The lever 15 is adapted to be moved pivotally and to enter a groove or slot 18 in one side of the standard 14 when the latter is mounted in the base 10. In the drawings the retaining lever 15 is shown as located on the base and in front of the standard 14, but obviously it may be adjacent one of the sides or rear wall of the standard 14, or may be in a recess in the bottom of the base.

The standard has a central bore 19, preferably rectangular or square, open at its top and extending to or near the bottom of the standard. The bore 19 is adapted to receive a second standard member 20 which fits therein and is slidable in the standard 14. A spring pressed button 21 on the member 20 engages a corrugated strip 22 located in a recess in one side of the standard 14, facing the bore 19, whereby the standard member 20 may be held in adjusted position relatively to the standard 14. The strip 22 is secured to the inner surface of the standard 14 by screws 23.

The upper end of the standard 20 has two oppositely disposed flat sides 24, and terminates in a rounded end 25, as best shown in Figs. 2 and 5. The shape of the end 25 facilitates the adjustment of the book rest 26 relatively to the standard 14—20. The rest 26 consists of a flat piece of material, rectangular in form, with a flange or rib 27 at its lower edge, perpendicular to the upper surface of the rest 26. On the under surface of the rest 26, and centrally thereof, is attached a reinforcing plate 28 to which is secured a pair of hinges. Each hinge comprises a part 29, pivot pin 30 and part 31. The parts 29 are secured in spaced relationship to the plate 28 and rest 26 by screws 32. When the book rest 26 is not attached to the standard 20, the hinge parts 31, 31 swing freely on their pivot pins 30, 30, and may lie closely adjacent the hinge parts 29 to facilitate packing of the disassembled parts of the stand.

The rest 26 may be mounted on the standard 20 as best shown in Figs. 2 and 3, at any desired angle, by a screw threaded bolt 33 which is passed through apertures in the hinge members 31 and the upper end of the standard 20. The aperture in the standard 20 is indicated at 34 in Fig. 3. The hinge members 31 are so spaced apart that they are parallel with and may lie against opposite side walls 24 of the standard 20. A wing nut 35 on the screw threaded end of the bolt 33 holds the parts as shown in Fig. 3. The rounded surface 25 of the standard permits the rest 26 to be moved about the bolt 33 as a pivot

and to be retained in its intended position by the wing nut 35 tightened on the bolt 33.

The parts are so constructed and formed that they may be packed compactly, as indicated in Figs. 5 and 6, wherein a case 36 with handle 37 is shown in dotted lines. The combined width of the base 10 and standard 14 are substantially equal to the distance between the rib 27 and upper edge of the book rest 26. The length of the standards 14 and 20, when the latter has been moved downwardly into the bore 19 of the standard 14 as far as possible, is substantially equal to the width of the rest 26. Therefore, the members 10, 14 and 20 may all be placed on the upper surface of the rest 26, with the standard 14 abutting the rib 27, and the base 10 at one edge abutting the standard 14. Thus the parts may be packed in a narrow case of a length and height substantially equal to the width and height of the book rest 26. The foldable hinge members for attaching the rest to the standard 20 also insure flatness and relative thinness of the parts and permit of their being packed in a narrow case.

In Figs. 7 and 8 we have shown means for supplementing the holding power of the spring pressed button 21 in engagement with the projections of the strip 22. Said means comprise a recess 38 in the standard 20, and a spring 39 secured by a rivet 40 in said recess. The spring is flattened when the standard 20 is within the standard 14, and its inherent tendency to assume the position shown in Fig. 8 results in frictional engagement with the standard 14 which aids in preventing unintended relative movement between the two standard members.

In Fig. 9 we have shown a spring pressed button 41 in the recess 11 of the base 10, engaging a reinforced recess 42 in the standard 14. This means of holding the standard in the base may be substituted for the lever 15 and groove 18 heretofore described.

The invention may be embodied in a stand made of wood, metal or any other suitable material.

Changes may be made in details of construction without departing from the scope of our invention and we do not intend to be limited to the exact form shown and described, except as set forth in the appended claim.

We claim:—

A demountable book stand the knockdown parts of which are to be compactly assembled on one of said parts as a support, comprising a base, a hollow standard removably mounted in the base, a second standard member slidably mounted in the hollow standard, a book rest, the base and standards being proportioned to be assembled side by side upon the upper face of the rest within the margins thereof, whereby all parts of the book rest stand may be assembled in a package substantially equal in all dimensions to that of the book rest part, and foldable means on the under side of the rest for detachably mounting the rest on the second standard member, said means comprising two pivoted plates adapted to engage opposite side walls of the standard for attachment thereto, and to be pivotally moved to lie parallel to and abut the under surface of the rest when the rest is detached from the standard, and means passing through said plates and into said standard constituting said attachment.

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