May 27, 1947. W. N. APPLEGATE ET AL 2,421,232

DISPLAY SUPPORT OR FIXTURE

Filed March 5, 1946

FIG. 1.

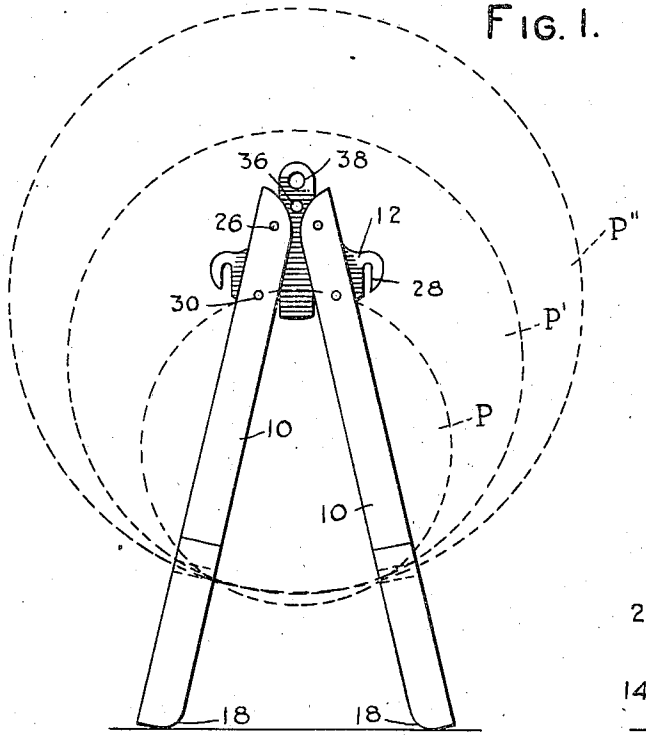


FIG. 2.

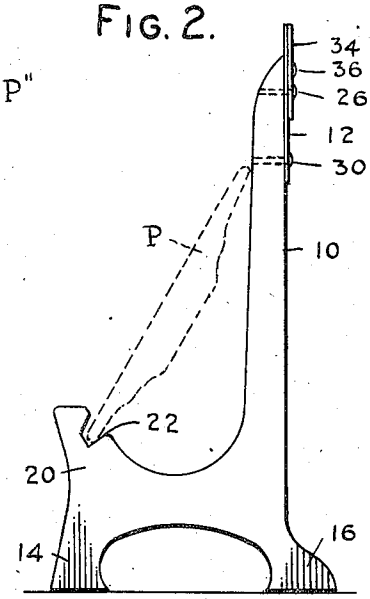


FIG. 3.

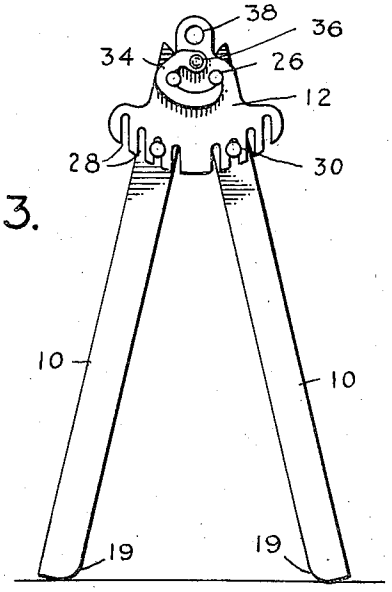
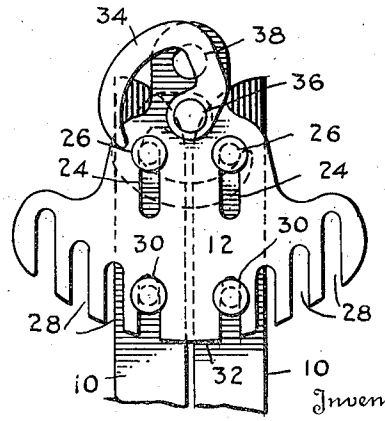


FIG. 4.



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DISPLAY SUPPORT OR FIXTURE

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6 Claims. (Cl. 248—166)

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This invention relates to a display support or fixture of the type used for dishes, plates or the like.

It is an object of this invention to provide an improved display support or fixture which may be readily adjusted to accommodate objects of different size.

A further object is to provide a display support or fixture which will be stable and secure when placed on a horizontal surface and which may also be conveniently mounted on a wall surface.

An additional specific object resides in the provision of a display support constructed and arranged to engage the lower edge of plates or similar objects varying substantially in diameter.

Another specific object is to provide means pivotally connecting a pair of legs forming the body of a device of this nature so as to permit ready adjustment of angular leg spacing and to secure and lock the adjustment which is made.

These and other features of improvement contributing to simplicity in construction, wide range of utility, ease of adjustment and dependability of support will be apparent from the following detailed description of a preferred embodiment taken in connection with the accompanying drawings, in which

Fig. 1 is a front elevation of the device with a series of plates or other circular objects indicated in dotted lines;

Fig. 2 is a side elevation of the device shown in Fig. 1;

Fig. 3 is a rear elevation of the device locked in a selected angular relation; and

Fig. 4 is a partial rear elevation enlarged to show details of the means for pivotally connecting, adjusting and locking the legs of the device.

With reference to Figs. 1 and 2 of the drawings, a pair of generally L-shaped legs 10, 10, of wood, plastic or other suitable material are pivotally mounted on a plate member 12 formed of metal, plastic or any suitable similar material. Each leg 10 includes a forward foot 14 and a rearward foot 16, both feet having curved inner edges 18 and 19 in order to provide an adequate bearing surface in all positions of adjustment.

Particular note is to be made of an upstanding arm 20 above the forward foot 14. This arm 20 is provided with a wide V-notch so arranged as to accommodate the lower edge of a plate P of small diameter, as shown in Fig. 2, as well as a plate P'' of much larger diameter (Fig. 1) which would be inclined forwardly by reason of its contact with the upper ends of the legs 10, 10 and thus rest against the upper inner face of the notch 22.

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As the angle between the legs 10, 10 of the support shown in Fig. 1 is increased it will be possible to securely support plates P', P'' of progressively larger diameter so as to prevent sidewise rolling out of the notches 22, 22. This opening of the legs 10, 10 has the further effect of reducing the overall height of the support or fixture, thus modifying the angular relation between the supported plate and the upper ends of the legs 10, 10.

The plate member 12 which pivotally connects the ends of legs 10, 10 is constructed to provide a plurality of selected angular positions of the legs corresponding to the range in diameters of the disk-like articles to be supported. In its upper portion plate member 12 is provided with a parallel pair of vertically extending slots 24, 24 each of which receives a headed pivot pin or screw 26 extending from the rear face of the corresponding leg 10. The lower portion of the plate member 12 has a plurality of parallel inwardly extending slots uniformly spaced and symmetrically arranged with respect to the vertical center line of the plate member, the lower edge 32 being of approximately arcuate shape. In its upper portion the plate member 12 has a curved latching hook 34 secured to the center thereof by a pivotal connection 36 and so related in size and shape to the pins or screws 26 as to lock them in the tops of their slots 24, 24 when swung into the position shown in Fig. 3.

In order that the device may be mounted on a wall surface as a supporting fixture, the upper extremity of the plate member 12 is provided with a center hanging eye 38 projecting above the pivoted connection 36. The hanging eye 38 functions also as a handle when the plate member 12 is lifted and rotated in adjusting legs 10, 10.

In making the various possible adjustments the latching hook 34 is swung aside to the position shown in Fig. 4 thus permitting the plate member 12 to be elevated so that the pins 26 are at or near the inner ends of the parallel slots 24 and the lower arcuate edge 32 is clear of the pins 30, 30. The legs 10, 10 may then be opened or closed to any position corresponding to an oppositely or other disposed pair of symmetrically arranged slots 28, 28. When the desired slots have been selected and the locking pins 30, 30 of legs 10, 10 are in alignment therewith, the plate member 12 is lowered to its Fig. 4 position and the curved latching hook 34 is swung down-

wardly to encircle the pins 26, 26 as indicated in dotted lines. While the latching means 34 could be omitted its use is very desirable to prevent accidental release of legs 10, 10 and essential when the device is suspended by eye 38.

It will be apparent from the described details of construction and indicated operation of this device that the desired range of adjustments can be quickly and conveniently made and that when made the support or fixture will be quite rigid with the legs 10, 10 incapable of relative movement.

As it will be obvious to those skilled in the art that various changes can be made in the details of construction and arrangement of parts of the preferred embodiment without departure from the principles of the invention, it is not intended that the invention should be limited other than as may be required by the scope of the appended claims.

Having thus described the invention, what is claimed as novel and desired to be secured by Letters Patent of the United States is:

1. A device comprising a pair of legs; a pivot pin extending from the same side of one end of each leg; a plate member having a parlallel pair of vertically extending pivot slots engaging the pivot pins and pivotally connecting the corresponding ends of said legs, and an edge spaced inwardly of the pivot slots and formed with a plurality of locking slots extending inwardly in parallelism to the pivot slots; and a locking pin on each leg in a position to engage one of the locking slots when the pivot pins are in the outer ends of their respective slots.

2. A device comprising a pair of legs; a pivot pin extending from the same side of the upper end of each leg; a plate member having a parallel pair of vertically extending pivot slots engaging the pivot pins and pivotally connecting the upper ends of said legs, and a lower edge formed with a plurality of locking slots extending inwardly in parallelism to the pivot slots; a locking pin on each leg in a position to engage one of the locking slots when the pivot pins are in the upper ends of their respective slots; and a latching means pivotally connected to the upper portion of the plate member and formed and arranged to engage the pivot pins when they are in the upper ends of their slots and prevent downward movement thereof.

3. A device comprising a pair of legs; a pivot pin extending from the same side of the upper end of each leg; a plate member having a parallel pair of vertically extending pivot slots engaging the pivot pins and pivotally connecting the upper ends of said legs, a generally arcuate shaped lower edge formed with a plurality of locking slots extending inwardly in parallelism to the pivot slots, and a hanging eye at its upper end; a locking pin on each leg in a position to engage one of the locking slots when the pivot pins are in the upper ends of their respective slots; and a curved latching hook pivotally connected to the upper portion of the plate member and arranged to encircle the pivot pins when they are in the

upper ends of their slots and prevent downward movement thereof.

4. A display support or fixture for plates or the like comprising a pair of legs and means pivotally connecting the upper ends of said legs and securing said legs in one of a plurality of predetermined angular relations, said means including a plate member formed to provide a pair of parallel vertically extending slots in its upper portion and an arcuate lower edge with a plurality of inwardly extending slots symmetrically disposed about a vertical center line and extending parallel to said pair of slots, a pivot pin extending from each leg through one of said pair of slots, a locking pin on each leg arranged to engage one of the inwardly extending slots when the pivot pins are in the upper ends of their respective slots, and a latching hook pivotally connected to the upper portion of the plate for engaging and retaining both pivot pins in the upper ends of the slots.

5. A display support or fixture for plates or the like comprising a pair of L-shaped legs, the inner lower edges of the horizontal portion of each leg being rounded, and means pivotally connecting the upstanding portions of said L-shaped legs and securing said legs in one of a plurality of predetermined angular relations, said means comprising a plate member formed with a pair of parallel vertically extending slots in its upper portion and an arcuate lower edge with a plurality of inwardly extending slots symmetrically disposed about a vertical center line and extending parallel to said pair of slots, a pivot pin extending from each leg through one of said pair of slots, a locking pin on each leg arranged to engage one of the inwardly extending slots when the pivot pins are in the upper ends of their respective slots, and a curved latching hook pivotally connected to the upper portion of the plate for encircling and retaining both pivot pins in the upper ends of the slots.

6. A display support or fixture for plates or the like comprising a pair of L-shaped legs, the horizontal portion of each leg having a broad notch near its outer end for receiving the lower edge of a plate or the like and the inner lower edge of each leg being rounded, and means pivotally connecting the upstanding portion of said L-shaped legs and securing said legs in one of a plurality of predetermined angular relations, said means comprising a plate member formed with a pair of parallel vertically extending slots in its upper portion and an arcuate lower edge with a plurality of inwardly extending slots symmetrically disposed about a vertical center line and extending parallel to said pair of slots, a pivot pin extending from each leg through one of said pair of slots, a locking pin on each leg arranged to engage one of the inwardly extending slots when the pivot pins are in the upper ends of their respective slots, and a latching hook pivotally connected to the upper portion of the plate for engaging and retaining both pivot pins in the upper ends of the slots.

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