May 31, 1932. E. B. WESTON 1,860,879

DISPLAY STAND

Filed Dec. 10, 1928

Fig. 1.

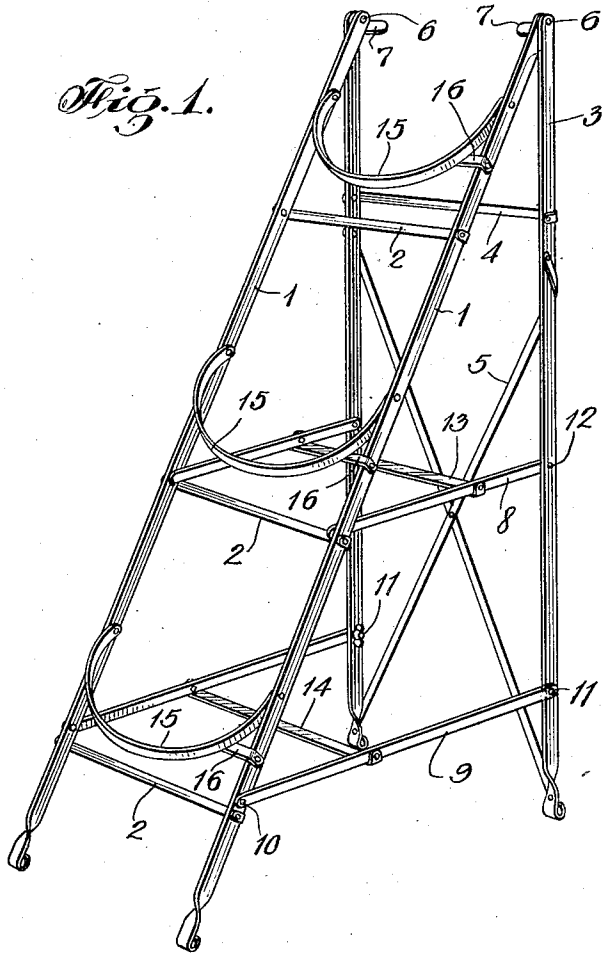
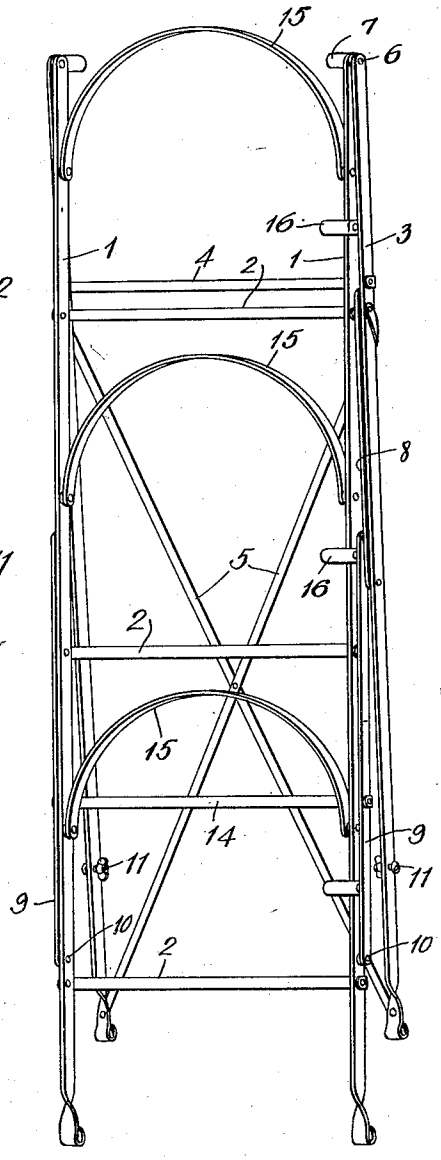


Fig. 2.



INVENTOR.
EDWARD B. WESTON
BY Meyers & Jones
ATTORNEYS.

Patented May 31, 1932 1,860,879

UNITED STATES PATENT OFFICE

EDWARD B. WESTON, OF DAYTON, OHIO, ASSIGNOR TO THE WESTON PAPER AND MANUFACTURING COMPANY, OF DAYTON, OHIO, A CORPORATION OF OHIO

DISPLAY STAND

Application filed December 10, 1928. Serial No. 325,073.

This invention is an improvement in display stands, and more particularly in a stand of the easel type.

One of the primary objects of the invention is the provision of a stand especially designed to display advantageously goods containers, such as pails, tubs, and like articles, cylindrical in cross section.

Another object is the provision of a stand, by means of which a plurality of similar containers of the class described, may be supported with their tops in parallel planes, and inclined with respect to the horizontal, whereby to facilitate inspection of the contents thereof.

Another object is the provision of a simple inexpensive but strong and rigid stand, capable of being flatly folded for storage and transportation, and capable of being easily unfolded and held rigid in unfolded position.

With these and other objects in view the invention consists in the construction and novel combination of parts fully described hereinafter, illustrated in the accompanying drawings, and pointed out in the claims appended hereto, it being understood that various changes in the form, proportion, size and minor details of construction within the scope of the claims, may be resorted to without departing from the spirit of the invention.

In the drawings forming a part hereof:—

Fig. 1 is a perspective view of the improved stand in display position.

Fig. 2 is a similar view with the stand folded.

In the present embodiment of the invention, the improved stand comprises a display part and an easel support. The former is composed of a pair of spaced parallel bars 1, which are connected at suitable intervals by cross straps or bars 2, and the upper ends of the bars 1 are pivoted to the easel support, which is composed of a pair of bars 3, connected by a cross bar 4 near their tops, and by crossed inclined braces 5 between the bar 4 and their lower ends.

The bars 1 and 3 have suitably formed feet, and it will be noticed referring to Fig. 1, that the bars 1 are pivoted to the inner faces of the bars 3, the pivotal connection being indicated at 6. Angle plates 7 are provided at the pivotal connection, one portion of each angle plate being between the adjacent bars 1 and 3, and the other portion extending inwardly, as shown.

The display part or support proper for the goods, composed of the elements 1 and 2, is designed to be supported in inclined position by the easel support constituted by the numbers 3—4—5, and the parts are held in display position by pairs of braces 8 and 9. The braces 9 are pivoted to the bars 1 as indicated at 10 near the lower ends of the said bars, and they are detachably connected to the bars 3 by screw bolts and wing nuts 11, the connections 10 and 11 being so related that when the stand is in display position the braces 9 are substantially horizontal.

The braces 8 are pivoted to the bars 3 of the easel support at one end, as indicated at 12, and are designed to rest at their opposite ends on one of the cross bars 2 of the display part. Each pair of bars 8 and 9 is connected intermediate its ends by a cross plate or bars 13 and 14 respectively, the arrangement being such that the brace members constituted by the elements 8—13, and 9—14, respectively, may swing as a whole. The braces 8 are pivoted to the inner faces of the bars 3, and the braces 9 are pivoted to the outer faces of the bars 1, and the cross members 13 and 14, are so arranged as to enable the braces 8 to fold on the inner faces of the bars 3, and to enable the braces 9 to fold onto the outer faces of the bars 1.

A plurality of semicircular or arc shaped holders 15 is pivoted to the bars 1 of the display part, and these holders are adapted to swing into the plane of the display part constituted by the element 1—2, or into the position of Fig. 1, that is, with the plane of the holders inclining downwardly with respect to the display part. The swinging movement into the inclined position of the holders is limited by angle plates 16, secured to one of the bars 1, and extending inwardly, as shown in Figs. 1 and 2, so that when a holder is in proper position with respect to the display

part it will rest upon an angle plate and be restrained from further downward movement.

In use, the parts occupy the position of Fig. 1, and the stand is especially designed for supporting containers in the form of pails, tubs, and the like. The containers are arranged in the holders, with the bottoms of the lower two containers bearing against the cross bars 13 and 14, and the bottom of the top container bearing against the cross bar 4 of the easel. It will be noted that these elements 4, 13 and 14 are so spaced with respect to the holders with which they cooperate, that the containers when similar, will be supported with their tops in parallel planes, and inclined with respect to the horizontal to facilitate inspection. The containers will also be supported with their axes parallel.

Each of the bars 13 and 14 is spaced at the same distance from the plane of the holder, so that with similar containers, all will extend an equal depth beyond the plane of the display part of the stand. In order to fold the stand, the brace assembly including the bars 8 is swung upward into the plane of the easel support. The brace assembly including the bars 9 is detached from the easel support, and swung upward into the plane of the display part of the stand. The holders are then turned into the plane of the said display part. The angle plates 7 serve as stops to prevent the pails toppling over.

It will be apparent from the description that the stand includes a plurality of cradles for receiving and holding substantially cylindrical containtrs with their axes parallel and inclined to the horizontal, and that the cradles are foldable with the stand. Each cradle is constituted by a holder forming a seat embracing the side of the container, and a stop for the bottom.

The elements 9—14 and 8—13 each constitute a brace assembly, the former being pivoted to the frame or display part of the stand while the latter is pivoted to the support part of the stand.

What is claimed as new is:—

1. A foldable display stand comprising an easel support, a pair of arms pivotally connected thereto adjacent its top for swinging movement to folded and extended positions relative thereto, braces connected between each of said arms and the easel to hold the stand in extended position, a bar mounted between said braces and at a point between the arms and easel when they are extended, and a substantially U-shaped member pivotally connected to the arms and swingable into a position inclined to the plane of the arms with its bottom above and in front of said bar to support the side of a container in inclined position, said bar being positioned on the braces to support the end of the container in said position.

2. A foldable display stand comprising an open main frame composed of spaced arms, an easel support pivotally cannected to said arms of the main frame, a pair of braces pivotally connected to the easel support at one end and adapted to engage the main frame at their other ends to hold the display stand in extended position, substantially U-shaped holders pivotally mounted between the arms of the main frame to hold into the plane of said arms and to swing therefrom, stops on the main frame for engagement by the holders at a predetermined inclined position of the holders relative to the arms of the main frame, cross bars connecting each pair of braces at points between the main frame and easel support and below the bottoms of the holders when the frame is extended and forming rests for the bottoms of the containers when the containers are placed in the holders in inclined position.

3. A foldable display stand for receiving and holding substantially cylindrical containers with their axes parallel and inclined to the horizontal comprising, an open main frame composed of connected longitudinal and cross bars, an easel support pivoted to the frame, braces pivoted to the easel support at one end and engaging the display frame at their other ends to hold the stand in extended position, curved seats pivoted to the main frame to fold into the plane of the main frame, stops on the main frame for holding each seat in a selected inclined position when swung from the plane of the main frame, and a cross bar connecting each pair of braces at points between the main frame and easel support and below the bottoms of the seats and forming a stop for the bottom of a container in the adjacent seat.

4. A foldable display stand for receiving and holding substantially cylindrical cans with their axes parallel and inclined to the horizontal, comprising an open main frame composed of connected longitudinal and cross bars, an easel support pivoted to the frame, braces pivoted to the easel support at one end and engaging at their other ends with the cross bars to hold the stand in extended position, substantially U-shaped holders pivoted to the main frame to fold into the plane of the main frame, stops on the main frame for holding each seat in a selected inclined position when swung from the plane of the main frame, a cross bar connecting each pair of braces at points between the main frame and easel and below the bottoms of the seats and forming a stop for the bottom of a container in the adjacent seat, a bar across the easel support below the bottom of the uppermost holder and spaced therefrom substantially the same distance and at substantially the same angle as the cross bars of the braces

are spaced from their respective cooperating holders for engagement by the bottom of the uppermost container.

5. A display stand comprising an easel support, a pair of arms pivotally connected thereto adjacent its top for swinging movement to folded and extended position relative thereto, a plurality of pairs of braces connected between each of said arms and the easel support to hold the stand in extended position and swingable when the stand is folded into substantially the same plane as the arms and easel support, a bar mounted between each pair of braces at a point between the arms and easel support when they are extended, a substantially U-shaped holder pivotally connected to the arms above each pair of braces and cross bar and swingable into a position inclined to the plane of the arms with its bottom above and in front of the cross bar to support the side of a container and swingable therefrom into the same plane as the arms, each cross bar being positioned on the braces at a point relative to the respective holders to support the end of a container within each holder in inclined position and with the axes of the containers substantially parallel.

Signed at Dayton, in the county of Montgomery and State of Ohio this sixth (6) day of December, A. D. 1928.

EDWARD B. WESTON.