Oct. 28, 1930. E. B. WESTON 1,779,788

DISPLAY STAND

Filed Oct. 14, 1927

Fig. 1,

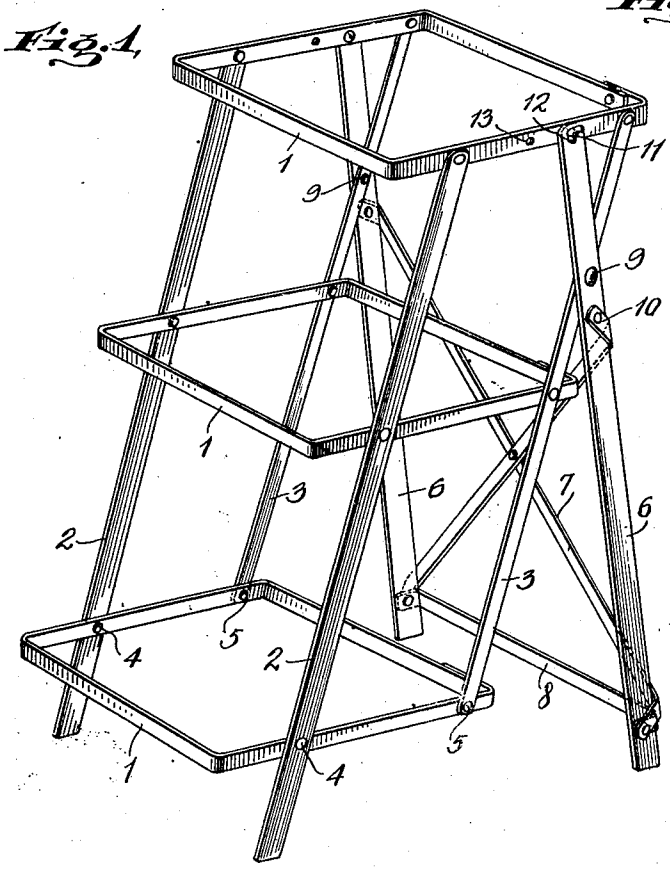


Fig. 2,

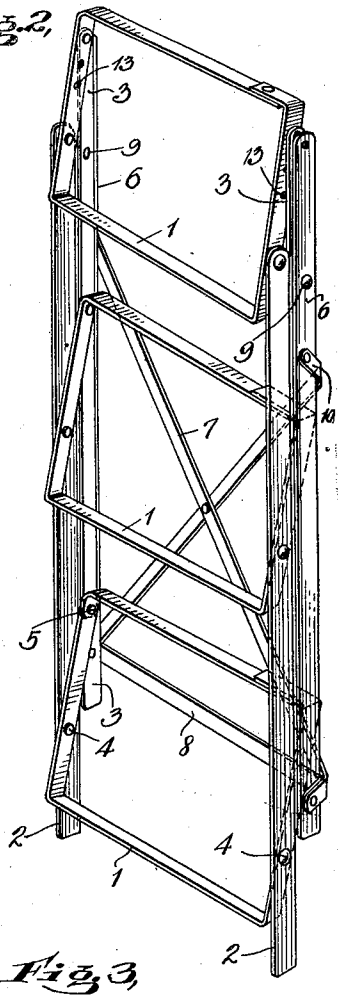


Fig. 3,

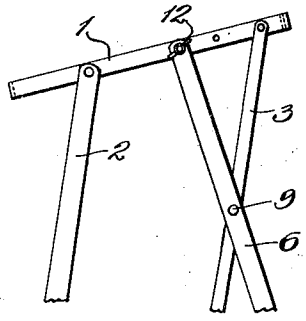
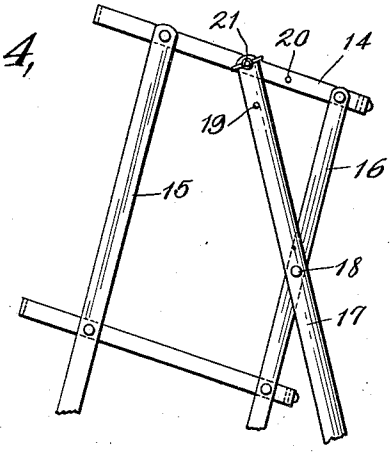


Fig. 4,



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UNITED STATES PATENT OFFICE

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DISPLAY STAND

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This is an invention in display stands, and more particularly in stands of the foldable type having a plurality of adjustments.

In stands of the character in question designed to support a plurality of containers in display position, the space occupied by the stand is material, and is usually in accordance with the aggregate weight of the containers supported by the stands.

That is, in some instances a stand with a broad base is desirable, in order to attain stability, while in other cases and particularly where space is material, a base of less area is preferable.

While containers of the character designed to be supported on such stands usually have display matter on the front, in which case the containers may be supported in horizontal planes, it is sometimes desirable that the tops of the containers be also displayed, or that the fronts be presented more prominently, and more directly perpendicular to the visual angle, in which case a tilting support is preferable.

One of the primary objects of the present invention is the provision of a stand, including a plurality of supports for containers arranged one above the other, and so connected and supported, that the fore and aft spread of the stand may be varied in accordance with the space available, or for any other reason.

Another object is the provision in such a stand of means whereby the individual supports for the containers may be simultaneously tilted, to display container tops supported thereby, or the fronts of such containers more nearly perpendicular to the visual angle.

Another object is the provision of a simple, inexpensive and light weight stand, capable of being folded into a flat condition for storage or transportation, so arranged as to be easily extended without the necessity for the use of tools, and wherein when extended the parts may be locked in such position.

In the drawings forming a part hereof:—

Fig. 1 is a perspective view of the improved stand in set-up condition.

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

Fig. 3 is an elevation of a part of the stand, with the parts in another position.

Fig. 4 is a side view of the upper part of an alternate construction.

In the embodiment of the invention shown in Figures 1, 2 and 3, the improved stand includes a plurality of substantially rectangular open frames 1, which may be formed of any suitable material, as for instance strap metal of the cross section desired. The straps as shown are bent into the frames, with the ends connected in any suitable manner, and as many frames may be provided as may be desired, each frame serving as a support for the display of goods.

The frames are connected in spaced substantially parallel relation by means of pairs of bars 2 and 3. The bars are pivoted to corresponding ends of the frames as indicated at 4 and 5 respectively, and the bars 3 are near those corners of the frames which in the completed stand will be at the rear.

The bars 2 are pivoted to the frames near the opposite sides, and near the sides which in the completed stand will be at the front. It will be noticed referring to Fig. 1, that the bars 3 do not extend below the lowermost frame, while the bars 2 extend below the lowermost frame to serve as legs for the stand, that is to support the lowermost frame a sufficient distance above the floor.

An easel support is pivoted to the rear bars 3. This support comprises a pair of legs 6, connected by inclined braces 7 crossing between the legs as shown, and by a cross bar 8 near the lower ends of the legs. The pivotal connection 9 between the legs and the bars 3 is between the uppermost and the intermediate frame in the present instance, and the braces 7 and the bar 8 are so arranged that the easel support may fold outside of the bars 3, as clearly shown in Fig. 2. That is, the legs 6 are arranged outside of the bars 3, and the braces and the cross bar abut the rear edges of the legs, the ends thereof being bent onto the outer faces of the legs, and secured thereto as shown at 10.

The pivotal connection 9 is spaced apart from the upper ends of the legs 6 a distance such that when the stand is in the position of

Fig. 1, that is with the frames 1 horizontal, the upper ends of the legs will lap upon the ends of the uppermost frame. At these points registering openings are provided in the legs and in the frame ends, for receiving screw bolts 11, which are passed from within outwardly through the registering openings and are engaged by wing nuts 12 outside the legs.

It will be evident that when the bolts 11 are removed, the easel support will fold into substantial register with the bars 3, and because of the pivotal connection between the bars 2—3, and the frame 1, the parts may be folded so that the edges of the bars 2 contact with the adjacent edges of the bars 3, as shown in Fig. 2. The frames 1 are still parallel, but are substantially within the overall dimensions of the abutting bars and legs.

For certain goods, or in certain circumstances, it is desirable that the supporting frames 1 have an inclination, that is that they incline downwardly toward the front of the stand, thus better to display the tops of the containers, or the contents thereof. With this object in view other openings 13 are provided in the ends of the uppermost frame, so placed that by tilting the frames 1 at a certain angle, the openings in the upper ends of the legs 6 may be brought into register with the openings 13, to enable insertion of the screw bolts 11 to hold the parts so adjusted.

In the embodiment of the invention shown in Fig. 4, the frames 14 and the pairs of bars 15 and 16 are like the corresponding elements of Fig. 1. The legs 17 of the easel support are extended above the pivotal connection 18 with the bars 16, and each extension is provided with two openings 19 spaced apart as shown. The end members of the uppermost frame have similar openings 20, two in number spaced apart longitudinally of the members. Either opening 19 is adapted to register with either opening 20 to receive a screw bolt 21, and it will be evident that this construction enables three adjustments.

When the lowermost opening 19 is engaged with the forward opening 20 the front sides of the supports are tilted downward in the same manner as in the Fig. 1 construction. When the lowermost openings 19 register with the rearmost openings 20, the supports 14 are horizontal, and when the parts are engaged as shown in Fig. 3, that is with the uppermost opening 19 in register with the forward opening 20, the frames or supports 1 are tilted rearwardly.

What is claimed as new is:

1. A display stand including a plurality of similarly shaped supports arranged in parallel spaced relation, a pair of bars connecting the supports at each end and pivoted to each support, an easel support pivoted to the rear members of the pairs and extending above the pivotal connection, and means to connect the extensions of the easel support to the topmost support at any selected one of a plurality of points for the purpose specified.

2. A display stand including a plurality of similarly shaped supports arranged in parallel spaced relation, a pair of bars connecting the supports at each end and pivoted to each support, an easel support pivoted to the rear members of the pairs and extending above the pivotal connection, and means to connect the extensions of the easel support to the topmost support at any selected one of a plurality of points for the purpose specified, said means including a plurality of openings in the extensions and in the support ends adapted to register in various positions of the parts, and bolts for engaging the registering openings.

3. A display stand including a plurality of similar frames arranged in parallel spaced relation, a pair of bars connecting the frames at each end and pivoted thereto, an easel support pivoted to the rear members of the pairs and extending above the pivotal connection, and means to connect the easel support above the pivotal connection to the topmost frame at any selected one of a plurality of points for the purpose specified, said means including registering openings in the easel support and frame ends, and bolts for engaging the registering openings.

4. A foldable display stand, including a plurality of similar supports, a plurality of pairs of bars, one pair at each end of the supports, and pivotally connected to the supports with the pairs in spaced relation, an easel support pivoted to the rear pair of bars intermediate the ends thereof and extending above the pivotal connection to the topmost support when said support is horizontal, the extended ends of the easel support having openings, and the topmost support having a plurality of openings at each end, either of which is adapted to register with an adjacent opening of the easel support, and fastening means for engaging the registering openings.

5. A display stand, including a plurality of similar substantially rectangular open frames, a plurality of pairs of bars pivotally connected with the frames, the members of each pair being pivoted to corresponding ends of the frames with one member near one side, and the other member near the other side of the frame, an easel support pivoted to the bars at one side of the frame, and an adjustable connection between said support and the topmost frame, for enabling the inclination of the frames with respect to the horizontal to be simultaneously varied through a plurality of display positions.

Signed at Dayton, in the county of Montgomery and State of Ohio, this 8th day of October, A. D. 1927.

EDWARD B. WESTON.