Dec. 1, 1931. F. A. WOOLLEY 1,834,196

COLLAPSIBLE DISPLAY STAND

Filed Aug. 4, 1930

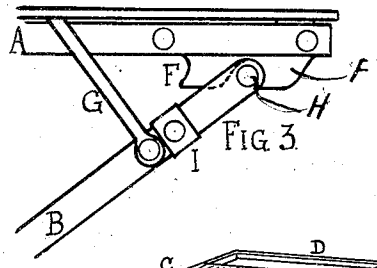


FIG. 3

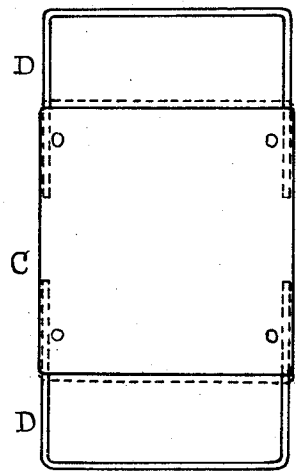


FIG. 2

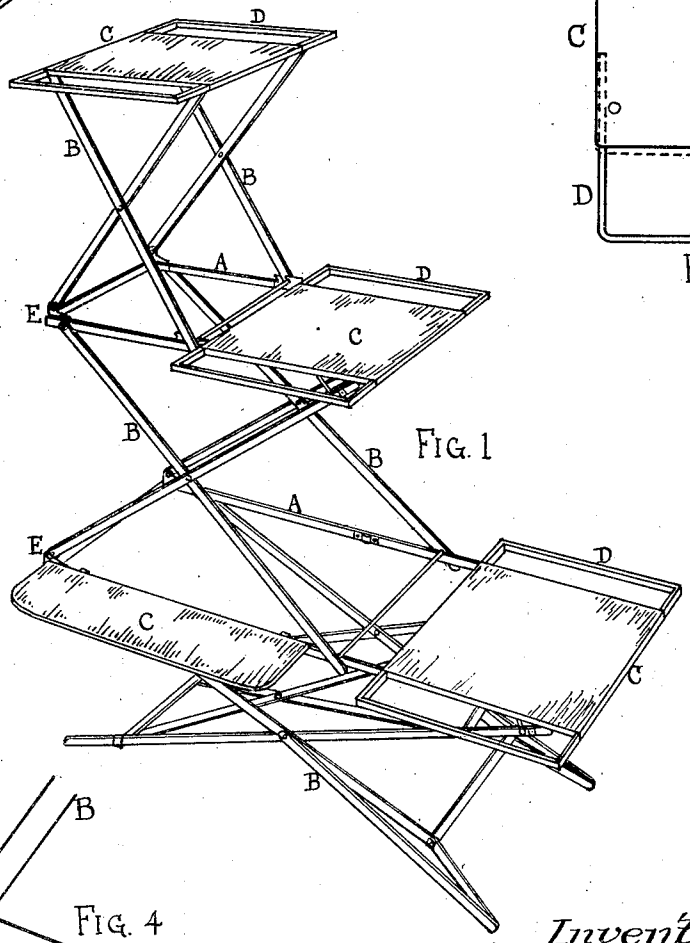


FIG. 1

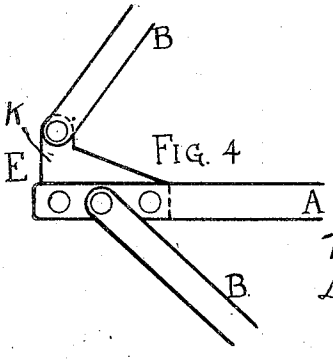
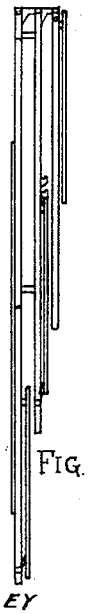


FIG. 4


FIG. 5

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UNITED STATES PATENT OFFICE

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COLLAPSIBLE DISPLAY STAND

Application filed August 4, 1930. Serial No. 473,061.

My invention relates to an improved floral rack, designed for use in the display of baskets or other holders of flowers at floral displays, principally designed for the use of funeral directors at funeral services. Besides this purpose they are also designed for use in the display of special goods, and it is also convenient as a display rack for flowers in the home.

The device is designed to be used as a one, two, or three shelf holder, and is of rigid construction, having neither spring, bolt, screws, or other loose parts about it, the joints being rigidly secured by rivets or by spot weld. The device when not in use is folded into the compact form shown in Figure 5 convenient for transportation. Figure 1 shows it erected for use as a display rack.

In the drawings:

Figure 1 is a perspective view of my rack extended into a three platform rack, one above another.

Figure 2 is a top view of one of the platforms with auxiliary shelves attached at the ends.

Figure 3 is a detached side view of the upper part of leg, trip rod, trip, frame, platform, catches and end of a cross rod on the leg, supporting the platform.

Figure 4 is a detached side view showing part of a leg and frame, and the special hinge, having on its inner side a projection or shelf for the end of the opposite leg to rest on when rack is in its flat position.

Figure 5 is a view of the rack collapsed.

In construction my device consists of a series of frames, A, A′, A″, mounted on pivoted adjustable legs, B, the lower frame carrying similar frames hinged on top of it and platforms C, one above the other. A set of detachable platforms D, is also provided, readily attachable and detachable in case of need as shown in Figure 2.

Each frame is hinged at E, at one end, to the top of the legs on that end, the other end of the frame resting free on top of the legs opposite and being firmly secured in a curved catch F, extending downward, inward, and upward, being held firmly in position in the catch F by the trip rod G on end of the supporting rod H, which supports the platform on the frame. The weight of the frame and platform pressing down upon the top of the free leg, and upon the trip rod, holds the cross bar H firmly in position in the catch locking the top to the leg rigidly.

The hinge E is a part of the frame A, extending upward above the frame as shown so that the leg of another set can be pivoted above the body of the frame, the hinge having a projection K on its side a little higher than the top of the frame on which the end of the opposite leg rests when the rack is folded down flat. This is to keep the parts on a level and prevent sagging of the same.

The automatic locking device consists of the curved catches F, F′, on the bottom of the frame carrying the platform, the trip rod G, rod H attached to the leg, and passing up, passes under the platform to the leg on the other side, forming a support for the platform.

The catches F, F′ extending down from the bottom of the frame are curved downward, inward and upward toward leg B. When the leg is supporting the frame and platform, the cross bar H, connecting it with the other leg at this end, rests in the lowest part of the curve in the catch F, the weight of the frame and platform and the pressure of the trip rod G keep the leg firmly in position preventing either forward or backward movement of the leg, holding it rigidly in attachment to the frame.

To demount the rack from an upright position as shown in Figures 1 and 3, the operator simply takes hold of the front end of the frame having the catches thereon, lifts up until the catch passes around free and above the cross bar H, and the legs, and the

frame of the top platform fold down onto the one beneath, the operation being repeated for each tier above the bottom one. Actual tests show that the rack can be raised from a flat, or horizontal position to its upright position in three seconds, and can be dissembled into its horizontal position in the same short time, automatically locking its parts rigidly together as it is raised up.

What I claim is:

1. In a collapsible display rack, a series of platforms adapted to be mounted one above the other, each platform being provided with collapsible legs, a pair of legs connecting successive platforms, and means whereby the platforms may be maintained either in spaced relation, or collapsed, whereby the platforms rest one upon the other and form a single platform.

2. In a display rack having a series of platforms mounted one above another, each platform supported on legs, the legs on one side of each platform being permanently hinged thereto, and those on the other side being detachably secured to each said platform by a catch, a trip-rod, and a trip, whereby the platforms may be maintained either in vertically spaced relation, or collapsed to be adjacent one to another.

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