INVENTOR

Herman H. Williams

By his Attorneys

Merchot & Neighbors
KNOCK-DOWN STAND FOR DISPLAY TRAYS

Herman H. Williams, Minneapolis, Minn., assignor to Northrup, King & Company, Minneapolis, Minn., a corporation of Minnesota

Application July 27, 1936, Serial No. 92,743

2 Claims. (Cl. 211—128)

My present invention provides an extremely simple, rigid, and highly efficient "knock-down" stand for supporting display trays; and, generally stated, consists of the novel devices, combinations of devices and arrangement of parts hereinafter described and defined in the claims. In a companion application filed of even date herewith under Serial Number 92,742, I have disclosed and claimed a "knock-down" stand of such structure that it is readily adapted for supporting a plurality of display trays, one above the other. The present improved stand is of a more simple structure than that illustrated in the drawings in my said companion application, and is especially adapted to support a single display tray.

Stands of the above character, when erected for use, while light in weight, are bulky in respect to the space occupied thereby. One of the primary objects of this invention is the provision of the stand and tray for supporting and displaying seed packages and the like: and, as such use is seasonal, it becomes of the utmost importance that the stand be capable of being "knocked down" or taken apart and packed in a small space when out of use, also for the purposes of shipment, the "knock-down" feature is very important. The improved stand is of very simple construction, capable of being quickly assembled or set up and quickly disassembled or "knocked down".

The improved device is illustrated in the accompanying drawings wherein like characters indicate like parts throughout the several views.

Referring to the drawings:

Fig. 1 is a front elevation showing the improved stand and a display tray supported thereby;

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

Fig. 3 is a fragmentary view partly in side elevation and partly in section showing the means for detachably connecting the tray to the stand; and

Fig. 4 is a fragmentary view partly in elevation and partly in section taken on the line 4—4 of Fig. 2.

The stand comprises two side frames and cross connections, which parts are detachably connected. Each side frame consists of a column or post 8 provided at its lower end with a rigidly secured U-shaped base 9 that affords supporting legs to the lower ends of which preferably caster rolls 10 are applied. The two columns 8 are detachably, but rigidly, connected by a pair of transversely crossed oblique tie-rods 8, which preferably, at their intermediate portions are rigidly secured by spot-welding indicated at 9. These tie-rods 8 are also preferably tubular, and the ends thereof are internally threaded, see particularly Fig. 4. To detachably but rigidly connect the ends of the tie-rods 8 to the posts or columns 8 screws 16, preferably of the thumb-screw type, are passed through perforations in the columns and are screwed into the internally threaded ends of the tie-rods 8.

The display tray shown is made from a metallic sheet 11 bent into zig-zag form to form trough-like display compartments which, when the tray is supported in oblique position, stand in stepped relation, one above the other. Preferably, the tray will be so located that its front and rear walls will be slightly oblique to a perpendicular, as shown in Figs. 2 and 3.

The walls of the tray are shown as braced by tie straps 12. Near its ends the tray is provided with depending stems 13 that are adapted to be telescoped into the upper ends of the tubular columns or posts 5 to thereby securely but detachably connect the tray to the stand. Preferably, the stems 13 are welded or rigidly secured to saddle straps 14 which, in turn, are welded or otherwise rigidly secured to the bottom of the tray. The saddle straps 14 are applied to the bottoms of the centrally or intermediate located compartments of the tray.

The complete device shown is made up of three main elements, to wit: the side frames, the cross-tie, and the tray; and these parts, when separated, may be assembled in substantially flat condition, and hence, wrapped or packed in a comparatively small space for the purposes of shipment or storage. Obviously, the said elements may be quickly connected when the stand is to be used and may be quickly disconnected when the device is out of use, and it is desirable to store the same in small space.

In the shipment of the device in "knock-down" form the tray may be loaded with seed containing packages or the like.

As is evident, the transversely crossed tie-rods, rigidly connected at their intermediate portions, form a very light, but very strong, trussed connection between the columns or side frames.

From the foregoing it is understood that modifications as to details of construction and arrangement of parts illustrated in the drawings may be made within the scope of the invention herein disclosed and claimed.

What I claim is:

1. A stand of the kind described comprising tubular columns provided at their lower ends with fork-like bases affording legs, transversely...
2,075,320

crossed tie rods having their ends rigidly but
detachably secured to said columns, in combina-
tion with an inclined stepped tray provided at
the intermediate portions of its ends with de-
pending stems telescoped into the upper ends
of said tubular columns.

2. A stand of the kind described comprising
tubular columns provided at their lower ends
with fork-like bases affording legs, transversely
crossed tie rods having their ends rigidly but
detachably secured to said columns, in combina-
tion with an inclined stepped tray, and angular
metallic saddle straps applied to the bottoms of
the ends of said tray and provided with depending
stems telescoped into the upper ends of said tubu-
lar columns.

HERMAN H. WILLIAMS.