

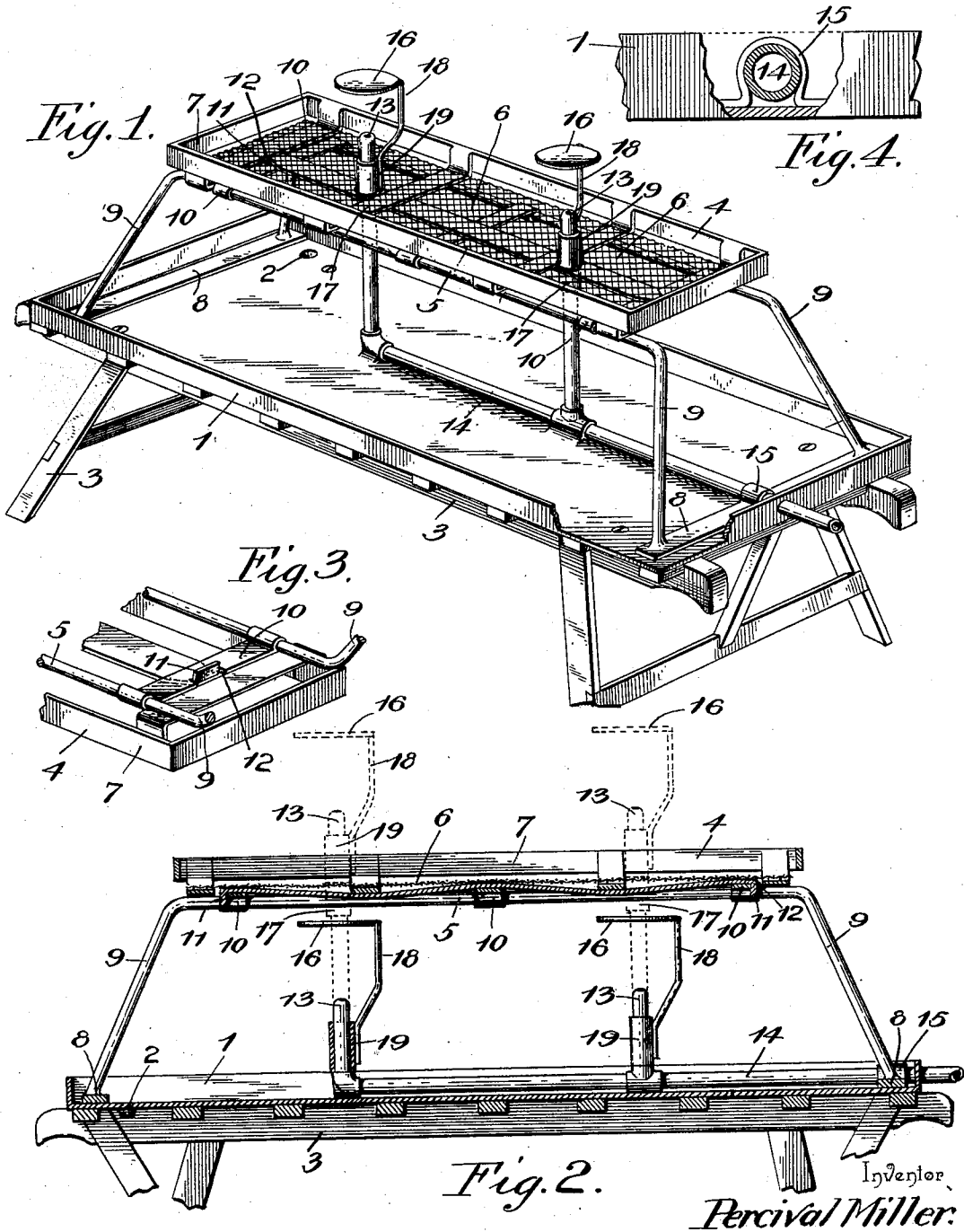
No. 606,842.

Patented July 5, 1898.

P. MILLER.
DISPLAY STAND.

(Application filed Sept. 13, 1897.)

(No Model.)



Inventor

Percival Miller.

Witnesses

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UNITED STATES PATENT OFFICE.

PERCIVAL MILLER, OF CARBONDALE, PENNSYLVANIA.

DISPLAY-STAND.

SPECIFICATION forming part of Letters Patent No. 606,842, dated July 5, 1898.

Application filed September 13, 1897. Serial No. 651,532. (No model.)

To all whom it may concern:

Be it known that I, PERCIVAL MILLER, a citizen of the United States, residing at Carbon-
5 State of Pennsylvania, have invented a new and useful Display-Stand, of which the following is a specification.

My invention relates to display-stands, and particularly to a device for supporting fruit, vegetables, and similar merchandise; and the
10 object in view is to provide, in connection with a stand of simple and compact construction, such means as will enable the contents thereof or any portion thereof to be sprayed
15 and thus kept in a moist and salable condition.

It is well known that many kinds of fruits and vegetables, and particularly such green goods as lettuce, must be kept in a moist
20 condition to prevent withering or falling, and, furthermore, it is desirable to maintain both cut and potted flowers in a similar condition in order that they may appear fresh and resist the effect of heat, and it is my object to provide
25 a stand adapted for supporting articles of either of these classes or of others of a similar nature whereby the application of moisture may be attained with facility and may, if desired, be made continuous.

30 Further objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

35 In the drawings, Figure 1 is a perspective view of a stand constructed in accordance with my invention. Fig. 2 is a vertical longitudinal sectional view of the same, showing
40 in full lines a depressed arrangement of the spraying devices and in dotted lines the elevated position of the same as in Fig. 1. Fig. 3 is a detail view of portions of the auxiliary or removable frame and the upper tray to show the means whereby the latter is secured
45 to the former, particularly when the spraying devices are in the depressed position indicated in full lines in Fig. 2. Fig. 4 is a detail sectional view to show the means whereby one of the base-bars of the auxiliary frame
50 is secured in place within the lower tray.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a main or lower tray constructed of sheet metal or its equivalent and provided at one or more points with an outlet or drain tube 2, said tray being arranged upon any suitable support, such as a trestle or main supporting-frame 3. Arranged above
55 this main tray is or may be an upper tray 4, and it is obvious that the series may be still further extended to provide the desired number of trays. In the construction illustrated, however, this upper tray, which is supported
60 by an auxiliary frame 5, is of smaller area than the main tray and is provided with a perforated or reticulated bottom 6 of any suitable interstitial material, provided at its edges with an upstanding flange or guard 7. The
65 auxiliary supporting-frame is provided with terminal transverse base-bars 8, from which rise the longitudinal rods 9, connected at suitable intervals by transverse braces 10, and the auxiliary or upper tray, which rests
70 upon the horizontal portions of said longitudinal rods and also upon said transverse braces, is provided contiguous to certain of said braces with depending stop-ears 11, which engage notches 12 in said braces, thus preventing both lateral and longitudinal displacement of the tray. 80

The application of moisture to the contents of the tray or trays embodied in the construction of the stand is accomplished by means of spray-nozzles 13, arranged in connection
85 with a supply-pipe 14, which extends longitudinally or otherwise of the main tray, and for the sake of convenience in manufacture and concealment when in use this pipe preferably extends through the main tray, where-
90 by it may be surrounded and covered by the contents of said main tray. The base-bar of the auxiliary supporting-frame at that end of the main tray through which said supply-pipe extends is provided with an arched clasp
95 15 to pass over said supply-pipe, and as a means of securing said auxiliary frame against accidental displacement I preferably contract said arch at its lower or open side, as indicated in Fig. 4, and by making the 100

base-bar of yielding or spring metal I am enabled to spring the clasp over said pipe and thereby securely fasten the frame in place.

The spray-nozzles may be of different constructions to adapt them to apply moisture to the contents of the tray or trays in the required manner; but that construction which I have found most efficient embodies a nozzle having a straight outlet of small diameter adapted to throw a fine unbroken stream, in connection with a deflector 16, located centrally in the path of the stream, from the nozzle and consisting of a flat disk, in contact with the under side of which the stream of water is spread to form a fan-like spray. This construction is preferable for the reason that it secures the application of moisture to the contents of the trays without causing the water to strike said contents with any appreciable force. The stream, after striking the disk-shaped deflector, spreads and settles upon the fruits or flowers in the form of a mist, and hence it finds its way through the smallest spaces and reaches the under sides of the objects—such as leaves, &c.—as well as the upper or exposed surfaces.

In Fig. 1 I have shown the spraying devices arranged to discharge upon the contents of the upper tray; but it will be seen that inasmuch as said upper tray is of less area than the lower and is provided with a reticulated floor or bottom the moisture distributed by the spraying devices will find its way to the contents of the lower tray. It may, however, be desirable under certain circumstances to apply moisture to one of a series or tier of trays without affecting the contents of another tray, and it is in order to accomplish this that I employ spray-nozzles detachably connected with the supply-pipe, as shown in Fig. 2, in connection with removable branch-pipe sections 17, adapted to be interposed between the supply-pipe unions and the spray-nozzles. Hence when it is desired to spray the contents of the lower tray the spray-nozzles may be applied directly to the supply-pipe, as shown in Fig. 2 in full lines, the deflectors being interposed between said spray-nozzles and the bottom of the upper tray, whereas when it is desired to apply moisture to the contents of both trays the spray-nozzles may be arranged above the plane of the upper tray and connected by means of the said removable or adjustable branch pipes with the unions of the supply-pipe, said branch pipes terminating contiguous to the plane of the floor of the upper tray and the spray-nozzles being extended through openings in the floor of said upper tray to connect with the branch pipes.

In order to provide for the arrangement of the deflectors contiguous to the spray-nozzles in either of their adjusted positions, I preferably provide the same with supporting-arms 18, terminating in sleeves 19, to fit upon said nozzles. It is obvious that these sleeves may be revolvably adjusted upon the nozzles to

vary the positions of the supporting-arms and may be displaced when it is desired to remove or apply the branch pipes to arrange the nozzles contiguous to either the upper or the lower tray.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having described my invention, what I claim is—

1. A display-stand having a main tray, a supporting-frame removably seated in said main tray, and an auxiliary tray supported by and removably secured to the frame, substantially as specified.

2. A display-stand having a main tray, a frame removably seated in the main tray and including rods having parallel horizontal portions, and an auxiliary tray seated upon and removably secured to the horizontal portions of the frame, substantially as specified.

3. A display-stand having a main tray, a supporting-frame seated in the main tray and having transverse brace-bars provided with notches, and a removable upper tray having depending stop-ears fitted in said notches, substantially as specified.

4. A display-stand having a main tray provided with a drain, a superjacent tray having a reticulated floor, and means for spraying the contents of the upper tray, substantially as specified.

5. A display-stand having a tray, vertical spray-nozzles communicating with a supply-pipe, and flat deflecting-disks arranged in the path of streams discharged by said nozzles, substantially as specified.

6. A display-stand having upper and lower trays, a supply-pipe arranged contiguous to the plane of the lower tray, spray-nozzles connected with the supply-pipe, and removable branch pipes interposed between the spray-nozzles and the supply-pipe, substantially as specified.

7. A display-stand having upper and lower trays, a supply-pipe arranged contiguous to the plane of one of the trays, and spray-nozzles connected with the supply-pipe and adapted to discharge upon the contents of either tray, substantially as specified.

8. A display-stand having a tray, spray-nozzles communicating with a supply-pipe, and disk deflectors having supporting-arms terminating in sleeves removably fitted upon said nozzles, substantially as specified.

9. A display-stand having a main or lower tray, an auxiliary supporting-frame removably seated in said main tray, an auxiliary or upper tray removably seated upon the said supporting-frame and having a reticulated bottom provided with spaced openings, a supply-pipe having spaced unions alined with said openings in the bottom of the auxiliary tray, spray-nozzles arranged in alinement with said openings in the bottom of the aux-

iliary tray and having connections with the unions of the supply-pipe, and deflectors disposed in the paths of streams discharged from the nozzles and provided with supporting devices removably engaged with said nozzles, substantially as specified.

10 A display-stand having a main tray, a supply-pipe extending through and parallel with said main tray, a supporting-frame removably seated in said main tray and having terminal transverse base-bars, one of which is provided with a yielding expansible arch

extending over and removably engaged with said supply-pipe, an auxiliary tray seated upon said supporting-frame, and spraying devices connected with the supply-pipe, substantially as specified. 15

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

PERCIVAL MILLER.

Witnesses:

REESE HUGHES,
S. A. GILBY.