No. 693,497. Patented Feb. 18, 1902.

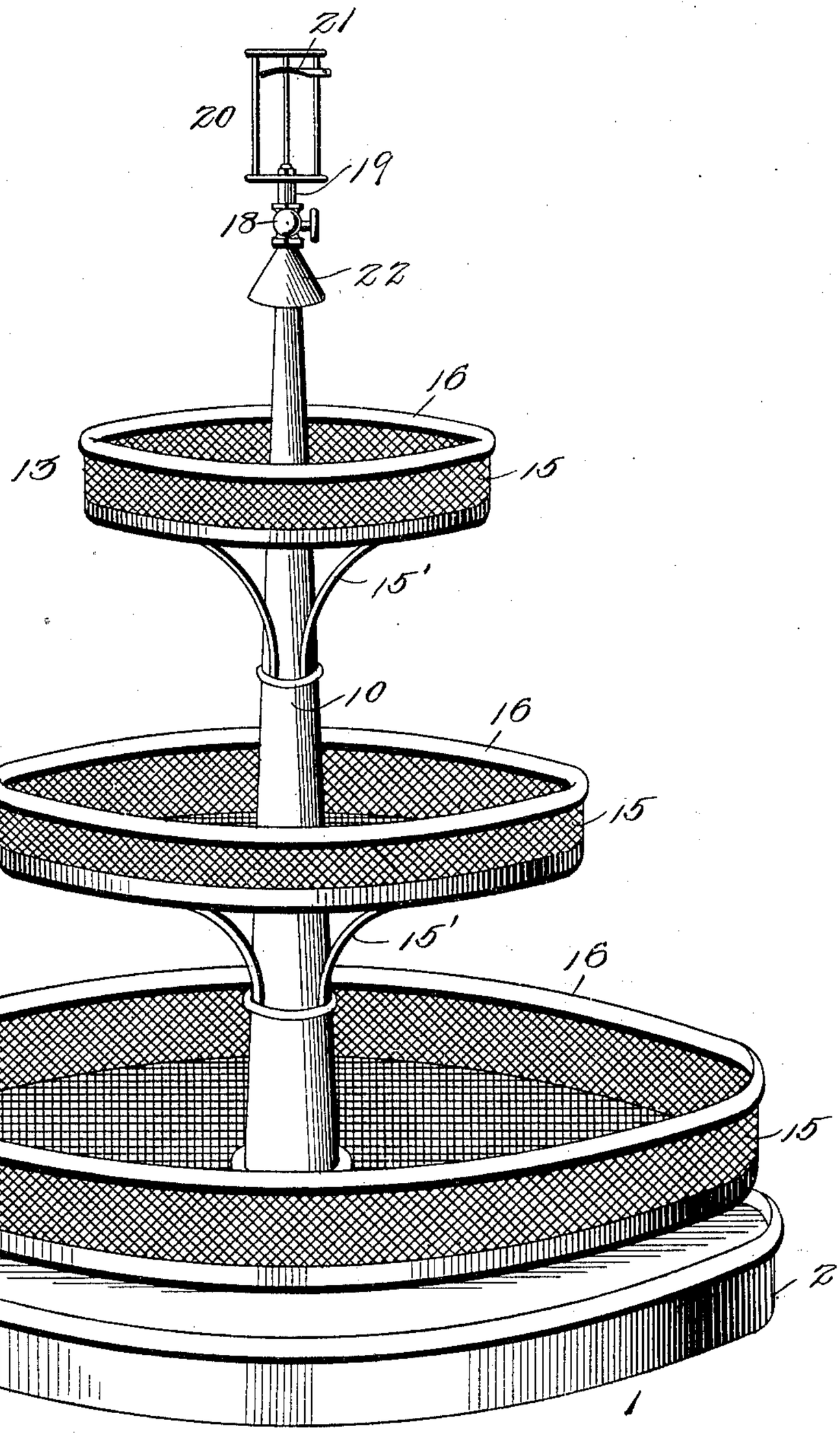
C. T. CHILDERS.

REVOLVING DISPLAY STAND.

(Application filed June 27, 1901.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.



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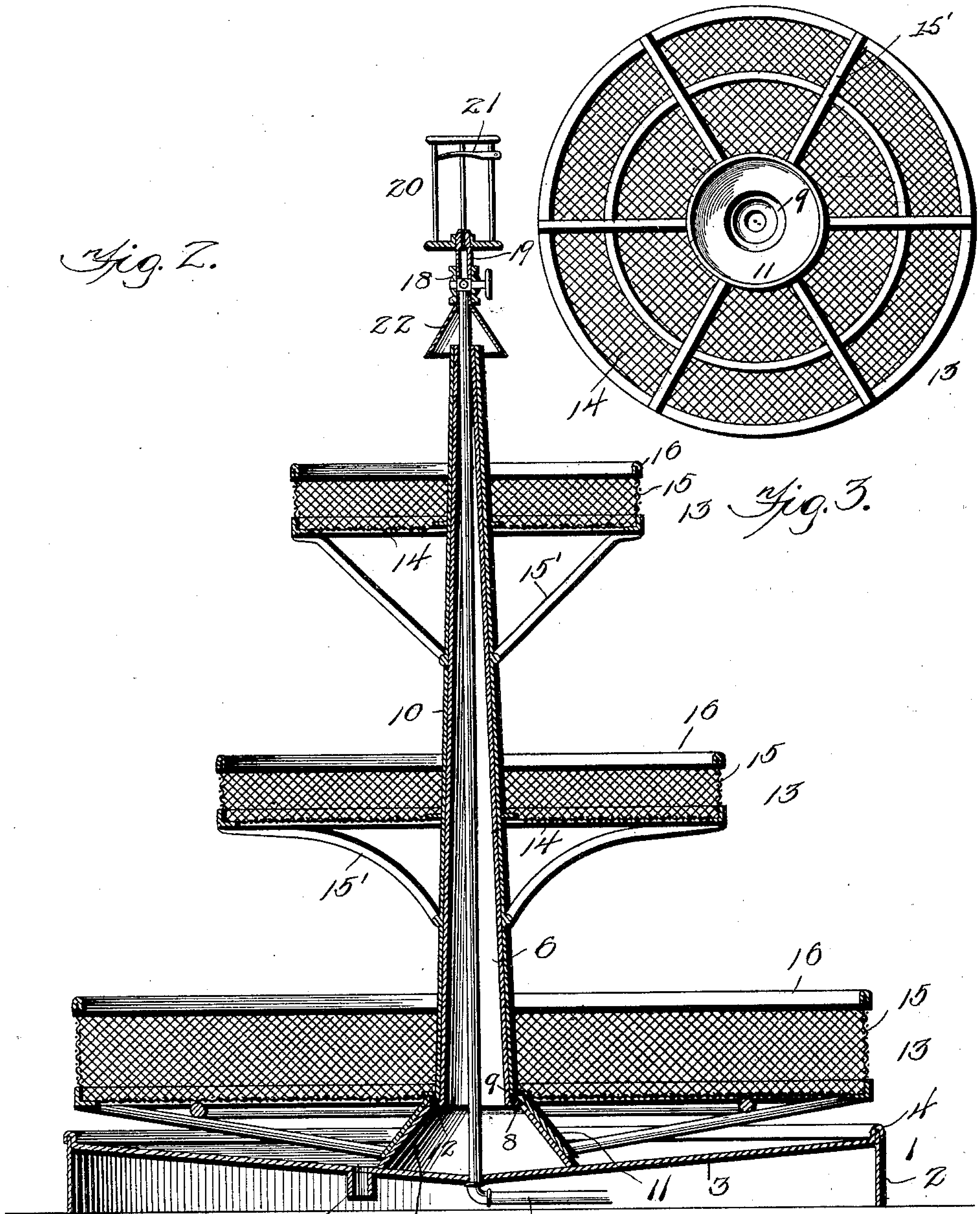

Fig. 2.

Fig. 3.

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UNITED STATES PATENT OFFICE.

CHARLES T. CHILDERS, OF GALESBURG, ILLINOIS.

REVOLVING DISPLAY-STAND.

SPECIFICATION forming part of Letters Patent No. 693,497, dated February 18, 1902.

Application filed June 27, 1901. Serial No. 66,279. (No model.)

To all whom it may concern.

Be it known that I, CHARLES T. CHILDERS, a citizen of the United States, residing at Galesburg, in the county of Knox and State of Illinois, have invented certain new and useful Improvements in Revolving Display-Stands, of which the following is a specification.

This invention relates to store furniture or fixtures, and has special reference to an improved display-stand of the revolving type and is specially designed to meet the requirements of grocerymen and others who retail green vegetables and fruits.

To this end the invention primarily contemplates a novel and practical construction of display-stand comprising means for attractively holding or displaying green vegetables or other perishable products and also embodying means for maintaining the products fresh and crisp. In the accomplishment of this latter object the invention contemplates a novel arrangement of spraying device of such a construction as to provide for distributing the spray of water in the form of a mist over the entire area of the stand, whereby the vegetables or other products are kept thoroughly moist without wetting or splashing objects outside of the area of the stand.

With these and many other objects in view, which will more readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination, and arrangement of parts, hereinafter more fully described, illustrated, and claimed.

The essential features of the invention are necessarily susceptible to some modification without departing from the spirit or scope thereof; but a preferred embodiment is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a fountain display-stand constructed in accordance with the present invention. Fig. 2 is a vertical longitudinal sectional view thereof. Fig. 3 is a bottom plan view of one of the revolving foraminous shelves.

Like numerals of reference designate corresponding parts in the several figures of the drawings.

In carrying out the invention it is preferable to associate all parts of the stand with a common supporting-base 1. This supporting-base, as shown in the drawings, is preferably of a circular form and essentially consists of a peripheral pendent rim portion 2 and a downwardly-dished top 3, which top is seamed or otherwise joined at its peripheral edge, as at 4, to the upper edge of the pendent rim 2 of the base, thus producing at this point an upstanding angular flange which, in conjunction with the downwardly-dished top 3, provides at the upper side of the base a drain-basin for receiving and draining off all of the water which drains from the members of the display-stand above the base. The said supporting-base 1 is provided at a suitable point within the central portion thereof with an outlet 5, through which the accumulated water drains off into a receptacle or through piping which may be connected with the outlet, and arising from the center of the supporting-base is an upright tubular standard 6, which may be extended to any desired height and is provided at the lower end or base thereof with a downwardly-flaring conical bearing-step 7, which is united directly with the dished top of the supporting-base. The said central tubular standard 6 is preferably tapered throughout its entire length, and at the junction of the main portion thereof with the conical bearing-step 7 the said standard is formed with an annular bearing-shoulder 8, on which turns a corresponding interior rest-shoulder 9, formed at the lower end of the tapering revolving sleeve 10, turning upon the exterior of the tapering standard 6 and extending the full length of said standard. From its lower end, below the interior shoulder 9, said sleeve 10 has extended therefrom a downwardly-flared conical shield 11, fitting over the bearing-step 7 of the standard and not only serving to enlarge and reinforce the bearing for the sleeve, but also protects the main bearing 8 and 9 from the water. At this point it should be observed that, if desired, bearing-balls 12 may be interposed between the shoulders 8 and 9 to provide a minimum of friction between the bearing-surfaces.

The external revolving sleeve 10 carries a plurality of foraminous shelves 13. Each of

these shelves is preferably in the form of a tray consisting of a bottom portion 14 and an upstanding peripheral rim 15, having a reinforced edge 16, this form of shelf being found very effective for holding and displaying green vegetables and other fruits. In the construction of the foraminous shelves 13 the same may be formed of wire-netting or any equivalent perforate or foraminous material suitable for the purpose and which will not only provide a proper support for the products, but will also permit of the percolation or draining of water therethrough. Each of said shelves 13 is rigidly fitted to the revolving sleeve 10 at the center of the bottom portion 14 and is also preferably braced in position by a plurality of downwardly-convergent braces or brace-rods 15′, extending from the bottom peripheral edge of the shelves to the sleeve 10, and the braces or brace-rods 15′, associated with the lowermost or bottom shelf 13, are united directly to the downwardly-flared conical shield 11, thus serving to reinforce or strengthen this part of the device, as well as the large bottom tray.

By reason of rigidly uniting all of the trays to the revolving sleeve 10 the same rotate in unison with the sleeve, and it will be observed that the several trays 13, any number of which may be used, are successively smaller in size or diameter from the lowermost to the uppermost shelf; but said shelves are concentrically related and are disposed in the same vertical plane inside of the vertical plane of the supporting-base 1, whereby all water is compelled to drain into the common drain-basin 3 and thence out of the outlet or waste tube 5.

In connection with the construction described there is employed a water-supply pipe 17, extending vertically through the tubular standard 6 and having coupled to its upper end, directly adjacent to the upper end of the standard, the casing of a controlling-valve 18. The said casing of the controlling-valve 18 also has coupled thereto the vertically-disposed jet-nipple 19 of a top spraying device 20. This spraying device is provided with an impact plate or disk 21, arranged above the jet-nipple 19, so as to receive thereagainst the jet or stream of water and serving to break the same up into a fine mist, which is distributed about the spraying device and drops over the several shelves or trays holding the vegetables or fruits, whereby the same may be kept perfectly fresh and crisp. Any suitable spraying device capable of performing this essential function may be coupled to the upper end of the display-stand or the water-supply pipe thereof; but the construction referred to is the preferable one and forms the subject-matter of a separate companion application filed of even date herewith.

To insure a thorough shielding of the parts, there is employed a conical deflector-shield 22, which overhangs the upper end of the tubular standard and the revolving sleeve, so as to prevent water following back around the supply-pipe.

From the foregoing it is thought that the construction, operation, and many advantages of the herein-described display-stand will be readily apparent to those familiar with the art without further description, and it will be understood that various changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a display-stand, a supporting-base provided at its upper side with a drain-basin and also having a central tubular standard, a revolving sleeve turning upon said standard and having a protected bearing at its lower end, a plurality of foraminous shelves concentrically arranged upon the sleeve within the vertical plane of the drain-basin, a water-supply pipe extending longitudinally through the standard, and a spraying device sustained on the upper end of the water-pipe and located above the top of the standard.

2. In a display-stand, a supporting-base provided at its upper side with a drain-basin, and also having a central tubular standard, a revolving sleeve turning upon said standard and having a protected bearing at its lower end, a plurality of foraminous shelves concentrically arranged upon the sleeve within the vertical plane of the drain-basin, a spraying device located at the upper end of the standard and a conical deflector-shield interposed between the spraying device and the top ends of the standard and the sleeve.

3. In a display-stand, a supporting-base having a central standard provided at the bottom with a conical bearing-step and at the upper end of said step with an annular bearing-shoulder, a revolving sleeve turning upon the standard and provided with an interior rest-shoulder working over said bearing-shoulder and also provided below the rest-shoulder with a conical shield fitting over said conical bearing-step, and shelves fitted upon the sleeve.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES T. CHILDERS.

Witnesses:
B. W. SEARLE,
WM. D. GODFREY.