No. 670,357. Patented Mar. 19, 1901.

I. M. FREDRICK & M. B. JOHNSON.

FLOWER STAND.

(Application filed July 9, 1900.)

(No Model.)

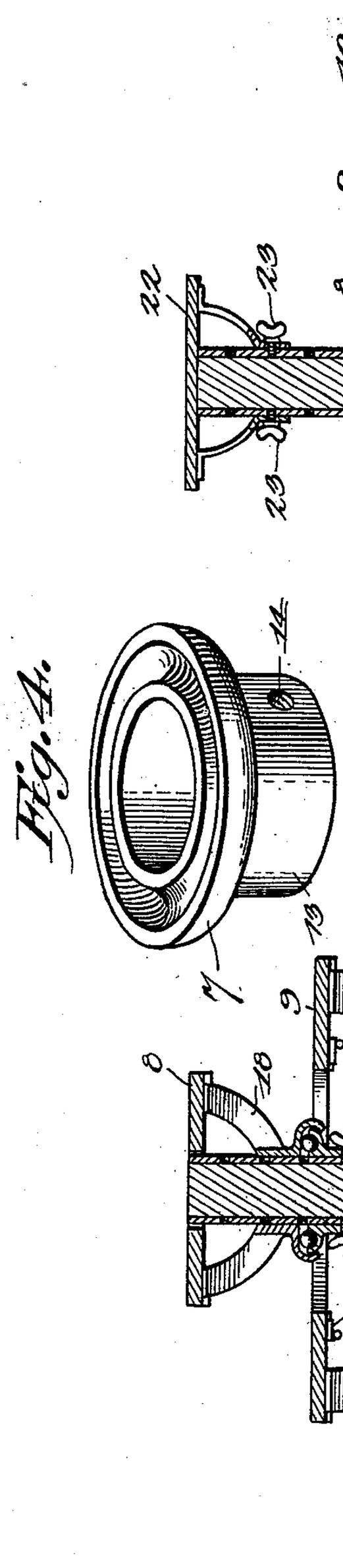

Fig. 4.

Fig. 1.

Fig. 3.

Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

ISAAC M. FREDRICK AND MILTON B. JOHNSON, OF PERKASIE, PENNSYLVANIA.

FLOWER-STAND.

SPECIFICATION forming part of Letters Patent No. 670,357, dated March 19, 1901.

Application filed July 9, 1900. Serial No. 23,032. (No model.)

To all whom it may concern:

Be it known that we, ISAAC M. FREDRICK and MILTON B. JOHNSON, citizens of the United States, residing at Perkasie, in the county of Bucks and State of Pennsylvania, have invented a new and useful Flower-Stand, of which the following is a specification.

The invention relates to improvements in flower-stands.

The object of the present invention is to improve the construction of flower-stands and to provide a simple, inexpensive, and efficient one provided with a series of shelves adapted to be arranged at different elevations to suit the size of the plants and to be rotated to arrange the plants in the desired position and capable of being arranged in the same horizontal plane to form a continuous horizontal support or table.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a vertical sectional view of a flower-stand constructed in accordance with this invention, the shelves being arranged at different elevations. Fig. 2 is a similar view, the shelves being arranged to form a horizontal support or table. Fig. 3 is a horizontal sectional view on the line 3 3 of Fig. 1. Fig. 4 is a detail perspective view of the lower bearing-ring.

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

1 designates a vertical standard provided with legs 2, having casters 3 to enable the stand to be readily moved, and the said standard, which may be constructed of either wood or metal, is preferably provided, when constructed of wood, with metal plates or strips 4, arranged vertically and let into the standard, so that their outer faces will be flush with the adjacent portions of the outer face of the standard. The metal strips or plates 4 are provided at intervals with perforations 5, adapted to be engaged by screws 6 of lower bearing-rings 7 for supporting a series of shelves 8, 9, and 10 at the desired elevation. Each bearing-ring 7 is provided at its upper face with an annular ball-race, receiving an annular series of antifriction-balls 11, which support an upper bearing-ring 12, which is swiveled to the lower bearing-ring. The lower bearing-ring is provided with a depending sleeve or cylindrical extension 13, having threaded perforations 14 for the reception of the screws 6. The upper bearing-ring 12 is provided at its periphery with an inwardly-extending flange 15, located beneath the lower bearing-ring, of less diameter than the outer periphery thereof and forming a peripheral hook for engaging the lower bearing-ring, whereby the upper and lower bearing-rings are interlocked and are permitted to rotate. The lower bearing-ring is fixed to the standard by the said screws 6 at the desired elevation, and the upper bearing-ring, which is adapted to rotate on the lower bearing-ring, is composed of two sections having overlapped ends secured together by screws 16; but rivets or other suitable fastening devices may be employed for effecting this result, and this construction permits the parts to be readily assembled.

The shelves 8, 9, and 10, which are circular and which are graduated to fit one within the other, are connected with their respective bearings by curved arms 18, 19, and 20, and the upper bearing-rings are provided with upwardly-extending sleeves or portions, with which the arms are preferably formed integral; but they may be constructed in any other suitable manner. The shelves are adapted to be arranged at different elevations, as shown in Fig. 1 of the accompanying drawings, or in the same horizontal plane, as shown in Fig. 2, to provide a horizontal table or support. The arms 18, 19, and 20 are connected with the bearing-rings 12 at points below their respective shelves to provide spaces, so that the arms may be arranged as shown in Fig. 2. The shelves 9 and 10 are provided at their inner edges with catches 21, adapted to engage keepers of the adjacent shelves for locking the several shelves together, so that the horizontal support or table will rotate completely.

When the horizontal shelves 8, 9, and 10 are arranged in the same horizontal plane to provide a horizontal table or support, a supplemental shelf 22 may be arranged at the top of the standard and be provided with arms

having screws 23 for engaging perforations of the standard.

It will be seen that the shelves are adapted to be readily arranged at the desired elevation and that they are adapted to rotate freely and that the upper and lower bearing-rings are interlocked or swiveled together, so that they will not separate when the shelves are raised. It will also be apparent that the shelves may be locked in a horizontal position to form a continuous circular table or support and that when so arranged the shelves will rotate together.

What we claim is—

1. A device of the class described comprising a standard, a series of vertically-adjustable bearings upon the standard, a series of annular shelves graduated to fit one within the other, and depending arms connecting the successive shelves with their corresponding adjustable bearings, substantially as described.

2. In a device of the class described, the combination of a standard, a lower bearing-ring provided with means for vertical adjustment upon the standard, an upper bearing-ring provided at its periphery with an inwardly-extending flange forming a peripheral hook and projecting under the lower bearing-ring, and antifriction devices interposed between the bearing-rings, substantially as described.

3. A device of the class described comprising a standard, a series of vertically-adjustable bearings upon the standard, a series of annular shelves graduated to fit one within the other and adapted to be located either in the same horizontal plane or at different elevations, the depending arms connecting the successive shelves with their corresponding adjustable bearings, fastening devices for locking the shelves together, and a supplemental top shelf mounted on the standards substantially as described.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

ISAAC M. FREDRICK.
MILTON B. JOHNSON.

Witnesses:
ISAAC H. DETWEILER,
FRANK F. ROSENBERGER.