D. F. LOUDON.

PLANT STAND.

APPLICATION FILED MAY 21, 1921.

1,396,445. Patented Nov. 8, 1921.

Fig. 1.

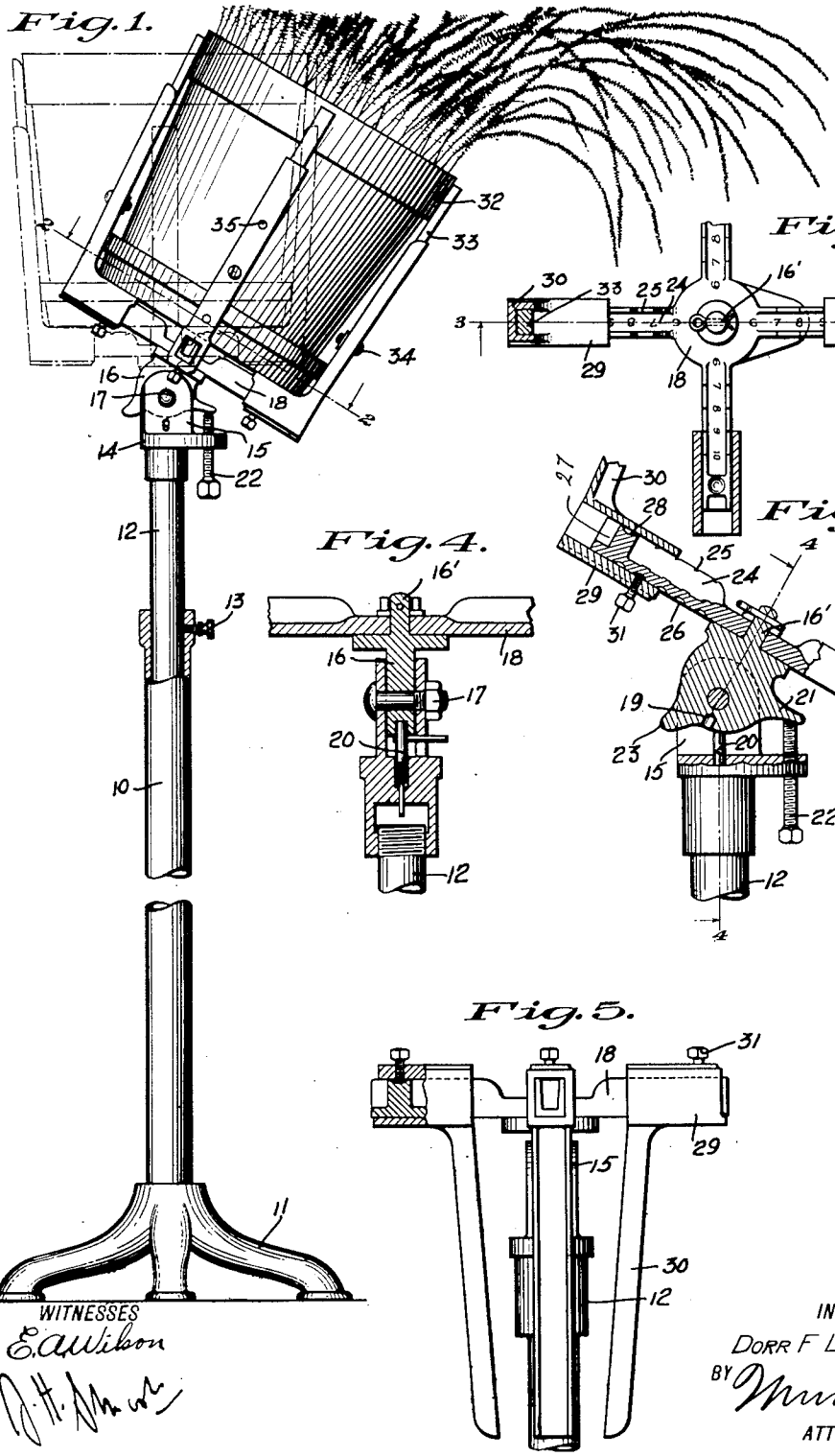


Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

WITNESSES

E. A. Wilson

INVENTOR

DORR F LOUDON

BY Munn & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

DORR F. LOUDON, OF NEW YORK, N. Y.

PLANT-STAND.

1,396,445. Specification of Letters Patent. Patented Nov. 8, 1921.

Application filed May 21, 1921. Serial No. 471,366.

To all whom it may concern:

Be it known that I, DORR F. LOUDON, a citizen of the United States, and resident of the city of New York, borough of Manhattan, county of New York, and State of New York, have invented a new and Improved Plant-Stand, of which the following is a full, clear, and exact description.

My invention relates to a support, and aims to provide improvements in connection with a device of this character, and more particularly what is known as a plant stand.

More particularly my present invention aims to provide improvements over the construction presented in my prior Patents #1336307 issued April 6, 1920 and 1371796 issued March 15, 1921.

It has been found in connection with the structure presented by these previous patents that primarily an extremely bulky device is provided in shipment, and further that the receptacle receiving arms of the stand are difficult to adjust, aside from further objections which have been found in connection with the using of articles of this nature.

Thus my present invention aims to provide a stand in which primarily the parts may be arranged with respect to each other, to provide a compact unit, capable of disposition within a minimum amount of space, so that the difficulty incident to this objection is eliminated.

A further object of my invention is the construction of a device of the character stated by means of which arms are provided, capable of being readily adjusted and applied, to accommodate and firmly grip virtually any type or size of receptacle which is to be supported.

Still another object of this invention is the construction of a stand which may be manufactured for a relatively small figure, and will offer a minimum of mechanical difficulty.

Still other objects will appear in the annexed specification taken in connection with the drawings, which latter present one practical embodiment of the same, and in which;

Figure 1 is a side view of a stand embodying my improved construction;

Fig. 2 is a sectional plan view thereof taken along the line 2—2 and in the direction of the arrows indicated in Fig. 1.

Fig. 3 is a transverse sectional view taken along the line 3—3 and in the direction of the arrows indicated in Fig. 2.

Fig. 4 is a sectional view taken along the line 4—4 and in the direction of the arrows indicated in Fig. 3, and

Fig. 5 is a side view of the upper end of the stand and showing the parts arranged in the manner in which they will be disposed when the device is being shipped.

I prefer to utilize the same supporting and mounting construction for my stand, as is utilized in my prior patents. Thus a hollow supporting sleeve 10 is provided with a foot portion 11, and slidably retains a column 12 in any desired vertical adjustment, by means of a set screw 13, coöperating with these portions.

The upper end of the column 12 carries a pedestal 14 mounting a pair of ears 15 between which a lug 16 is rockingly supported by means of a pin 17 extending through both of the ears, and the said lug. I also utilize the spider 18, which latter is rotatably mounted upon the lug 16 by means of a pin 16′, forming an extension of said lug projecting through an opening in the center of the spider, and thus it will be seen that a rotation of the spider with respect to the supporting portions of the stand may be achieved, it being also noted that a vertical adjustment of the spider may be effected by means of the telescoping action of the column 12 within the sleeve 10.

It is also to be noted in this connection that the lug 16 is preferably formed with a recess 19 into which a spring pressed pin 20 associated with the pedestal 14 may project to retain the spider 18 in the position indicated in dotted lines in Fig. 1. Also the angular disposition and retention of the spider is secured by means of an outstruck portion 21 forming a part of the lug, which coöperates with an adjustable stop comprising a set screw 22 associated with the pedestal 14, it being noted that the secondary outstruck portion 23 of the lug prevents the spider from being tipped in an opposite direction by virtue of the fact that this latter outstruck portion will coöperate with the pin 20 and preclude any possibility of this occurring.

With regard to the novel construction presented by this application, it will be seen that the spider 18 includes a plurality of preferably channeled arms 24, the upper edges and side wall of which present serra-

tions 25 for a purpose hereinafter specified. Also the under face of each of the arms is formed with a series of recesses 26 and it will be noted that a block 27 forms the outer end wall for each of the channels, the upper edge of the block being also formed with a recess 28 corresponding to one of the recesses 26.

Arms, including a sleeve portion 29 have its latter portion slidably encircling the arms of the spider 24, and upwardly extending portions 30 forming continuations of the sleeve portion 29, and are adapted to lie adjacent the outer face of the receptacle to be supported by the stand.

To provide means which will serve to properly retain the arms upon the spider and to permit of an adjustment of all these arms to an equal distance from the center, it will primarily be noted in Fig. 3 that I preferably provide graduations in the base of each of the channels 24 of the spider arms, the graduations on each of these latter arms corresponding to similar graduations upon other arms, and being at an equal distance from the center of the spider formed by the pivot pin extension 16′ of the lug 16. Set screws 31 are carried by each of the sleeve portions 29 of the arms, and the ends of each of these set screws may be brought to bear against any of the recesses 26 so as to firmly lock the arms to the arms of the spider, it being noted in this connection that this locking action will be enhanced by virtue of the fact that the inner face of the sleeve will be brought to bear against the serrations 25 thus providing a gripping connection between the sleeve 29 and the arms of the spider.

Thus it will be obvious that the arms of the stand may be adjusted to fit any size of receptacle, and this receptacle will have a center point lying substantially in line with the pivot pin 16′ and be capable of being adjusted to any angular position desired by virtue of the movement which the spider 18 is capable of, as aforedescribed, it being noted that the angular position of the spider shown in full lines in Fig. 1, is such that the sun's rays may be caused to throw their full power upon the plant, aside from the fact that an extremely artistic appearance is presented.

With a view of further providing means which will serve to permit of the retaining portion of the stand accommodating a receptacle 32 of virtually any height, it will be seen that supplemental arms 33 are slidably associated with the upwardly extending portion 30 of the arms proper, and that they form an extension of the same the limit of its extension being capable of being varied by means of a bolt 34, secured to each of these supplemental arms, and being capable of extending through one of a series of openings 35 formed in the upwardly extending portion 30 of each of the arms.

Thus it will be understood that an extremely desirable type of stand is provided, and it will further be appreciated that the same is capable of being stored in an extremely small amount of space by virtue of the fact that the arms, including the sleeves 29 may be detached from the arms of the spiders, and reversed in the manner indicated in Fig. 5 so that the set screws 31 thereof may engage the recess 28 of the end wall 27, thus locking the arms in this position, permitting of their being disposed within a minimum amount of space.

From the foregoing it will be appreciated that I have provided a stand by means of which all of the objects set forth in the preamble of this specification will have been accomplished, and it will obviously be understood that numerous modifications of structure might readily be resorted to without in the least departing from the spirit of my invention, which I claim as;

A stand including a spider, means for supporting said spider, arms, sleeves forming portions of said arms, said sleeves being adapted to encircle said spider arms, said spider arms being formed with recesses in their under faces, a set screw secured to the under side of said sleeve, the end of said set screw being adapted to project into the recesses of said latter arms, said spider arms presenting channel portions, walls forming end portions for said channels, the upper edge of each of said walls being formed with a recess whereby said sleeves may be reversed and said set screw may be caused to engage the said latter recess.

DORR F. LOUDON.