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FLOWERPOT WITH WATER DISTRIBUTION DEVICE

BACKGROUND OF THE INVENTION



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1. Field of the Invention

5 The invention relates to flowerpots and more particularly to a flowerpot having a water distribution device capable of evenly distributing water to an immediately lower flowerpot.

2. Description of Related Art

10 With the rapid increase in population, it results in a large amount of land to be developed into a residential, commercial or industrial land. This in turn significantly reduces people exposure to the green. Thus, there are more and more people not only use the balcony or attic space to plant flowers but also grow plants on the walls of construction sites. This has the benefits of beautifying the environment and adjusting the temperature and further more effectively
15 relieving pressures of work and life.

 Taiwan Utility Model No. M370927 entitled "vertically disposed flowerpots configured to change positions" discloses a plurality of flowerpot supported by a support having a plurality of assembled units. However, individually watering the flowerpots is required. It is cumbersome. A person may water the topmost
20 flowerpot and allow the excess water to flow from a bottom of the topmost flowerpot to a next lower one. However, the topmost flowerpot may die due to excess of water.

 Notwithstanding the prior art, the invention is neither taught nor rendered obvious thereby.

25 SUMMARY OF THE INVENTION

 It is therefore one object of the invention to provide a flowerpot having a

water distribution device capable of evenly distributing water to an immediately lower flowerpot.

For achieving above and other objects, the invention provides a flowerpot assembly comprising a support comprising a plurality of equally spaced
5 openings from top to bottom; and a plurality of flowerpots each disposed on the opening and comprising a container and a conduit wherein the container comprises a storing section for anchoring a plant and a water distribution device on a bottom of the storing section, the water distribution device including a coupling, a wall, an inlet, and an overflow exit; wherein a bottom of the conduit is
10 connected to the water distribution device; wherein the inlet communicates the conduit with the storing section; wherein the wall is around the coupling; and wherein the overflow exit is between the water distribution device and the wall and extends out of the container.

The above and other objects, features and advantages of the invention will
15 become apparent from the following detailed description taken with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an exploded view of a flowerpot assembly according to the invention;

20 FIG. 2 is an exploded view of one of a plurality flowerpots of the flowerpot assembly;

FIG. 3 is a perspective view of the assembled flowerpot;

FIG. 4 is a perspective view of the flowerpot of FIG. 3 with both the conduit and the funnel removed;

25 FIG. 5 is a side elevation of the flowerpot assembly;

FIG. 6 is a longitudinal sectional view of the flowerpot;

FIG. 7 is a longitudinal sectional view of two adjacent flowerpots; and

FIG. 8 is a perspective view of six flowerpot assemblies assembled as a hexagonal structure in one embodiment.

DETAILED DESCRIPTION OF THE INVENTION

5 Referring to FIGS. 1 to 8, a flowerpot assembly 100 in accordance with the invention comprises the following components as discussed in detail below.

A rectangular support 10 is made of molded plastic and comprises a plurality of openings 11 disposed from top to bottom. A plurality of flowerpots 20 each comprises a container 21, a conduit 22, and a funnel 23. The container 21
10 is made of molded plastic and comprises a storing section 211 for storing a growing medium such as soil with roots of a plant anchored therein, and a water distribution device 212 on a bottom of the storing section 211. The water distribution device 212 comprises a coupling 213, a wall 214, and an overflow exit 215. The coupling 213 comprises a crescent bottom 216 and a plurality of
15 spaced wall sections 217 around a portion of the bottom 216. An inlet 218 is formed on an edge of the bottom 216 and communicates with the storing section 211. The wall 214 is around the coupling 213 and has a recess 219 on a top. The overflow exit 215 is between the wall 214 and the coupling 213. The overflow exit 215 communicates the bottom of the container 21 with the external. Bottom
20 of the conduit 22 is inserted into the coupling 213 to be fastened by the bottom 216 and the wall sections 217. Further, the conduit 22 communicates with the inlet 218. The narrow stem of the funnel 23 is fastened in a top of the conduit 22. The funnel 23 has a wide, conical mouth.

As shown in FIG. 5, the flowerpots 20 are each fastened in the opening 11.
25 The top of the topmost conduit 22 is without the funnel 23. Each of the other flowerpots 20 has an external funnel 23 fastened in a top of a conduit 22 of an

immediately lower flowerpot 20 and the wide, conical mouth of the funnel 23 is directly below the overflow exit 215. As shown in FIG. 6, water flowing in the conduit 22 may enter the inlet 218 to flow into a bottom of the storing section 211. Water can be absorbed by the soil and a plant 90 may ingest nutrients directly
5 from the soil through their roots (see FIG. 8).

Water may flow over the recess 219 to flow to the overflow exit 215 when water level in the storing section 211 is higher than the recess 219. And in turn, water leaving the overflow exit 215 flow to the bottom of the container 21 and further to the funnel 23. And in turn, water flows to the conduit 22 prior to flowing
10 to an immediately lower flowerpot 20. As a result, water is evenly distributed to all flowerpots 20 with plants 9 being sufficiently watered.

While the invention has been described in terms of preferred embodiments, those skilled in the art will recognize that the invention can be practiced with modifications within the spirit and scope of the appended claims.

WHAT IS CLAIMED IS:

1. A flowerpot assembly comprising:

a support comprising a plurality of equally spaced openings from top to bottom; and

5 a plurality of flowerpots each disposed on the opening and comprising a container and a conduit wherein the container comprises a storing section for anchoring a plant and a water distribution device on a bottom of the storing section, the water distribution device including a coupling, a wall, an inlet, and an overflow exit; wherein a bottom of the conduit is connected to the water
10 distribution device; wherein the inlet communicates the conduit with the storing section; wherein the wall is around the coupling; and wherein the overflow exit is between the water distribution device and the wall and extends out of the container.

2. The flowerpot assembly of claim 1, further comprising a funnel having a
15 narrow stem fastened in a top of the conduit and a wide, conical mouth.

3. The flowerpot assembly of claim 1, wherein the water distribution device is on a bottom of the storing section.

4. The flowerpot assembly of claim 1, wherein the coupling comprises a crescent bottom and a plurality of spaced wall sections around a portion of the
20 crescent bottom; and wherein the wall is around the coupling.

5. The flowerpot assembly of claim 1, wherein the wall comprises at least one top recess.

6. A flowerpot comprising:

a container comprising a storing section for anchoring a plant and a water
25 distribution device on a bottom of the storing section, the water distribution device including a coupling, a wall, an inlet, and an overflow exit; wherein a

bottom of the storing section is connected to the inlet;; wherein the wall is around the coupling; and wherein the overflow exit is between the water distribution device and the wall and extends out of the container; and

5 a conduit having a bottom fastened in the water distribution device and communicates with the inlet.

7. The flowerpot of claim 6, further comprising a funnel having a narrow stem fastened in a top of the conduit and a wide, conical mouth.

8. The flowerpot of claim 6, wherein the water distribution device is on a bottom of the storing section.

10 9. The flowerpot of claim 6, wherein the coupling comprises a crescent bottom and a plurality of spaced wall sections around a portion of the crescent bottom; and wherein the wall is around the coupling.

10. The flowerpot of claim 6, wherein the wall comprises at least one top recess.