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DESCRIPTION

1. Title of Invention
Pot for culturing plant

2. Field of the Invention

This invention relates to a pot for culturing a plant, particularly to a pot for culturing bulbous plants in which a plurality of sprouts put forth, such as calla, caladium, lily and canna.

3. Background of the Invention

In the prior art, to culture bulbous plants in which a plurality of sprouts put forth, one uses a conventional pot used for culturing any kind of plants. Such a conventional pot comprises a round bottom, a side wall portion provided to surround the bottom, forming an opening on the top.

One type of a prior art plant culturing pot is disclosed in the Japanese patent publication No. 52-42690 entitled "a bottom water supply system", and another is disclosed in the Japanese utility model laid-open publication No. 61-50565 entitled "a water supply plant culture device". In particular, the bottom water supply system is known as "ST pot" and commercially available.

When one uses a conventional pot or ST pot disclosed in the Japanese patent publication No. 52-42690 for culturing a bulbous plant from which plural sprouts put forth in different directions, these sprouts cannot put forth and grow uprightly. Thus, sprouts of bulbous plants cultured in such a conventional pot often have difficulty to receive sufficient daylight, and result in grown plants of a poor appearance. Further, bulbous plants cultured in a conventional pot tend to grow to a plant of ill-proportioned body, which is ready to fall down.

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The pot disclosed in Japanese utility model laid-open publication No. 61-50565 comprises a rain and light prevention layer provided on a stem opening. The layer, however, does not function to guide sprouts of a plant to grow uprightly, nor can guide sprouts of a plant to grow toward a stem opening of the pot.

4. Disclosure of the Invention

The object of this invention is to provide a pot for culturing a plant, particularly a bulbous plant from which plural sprouts put forth in different directions, in which sprouts of the plant grow uprightly, resulting in a plant of a good appearance. The plant cultured in the pot of this invention grows to have a well proportioned body that is difficult to fall down.

Means for attaining the above object will be discussed below.

First, this invention provides a pot for culturing a plant comprising a lid having a stem opening at the center, a guide tube to be inserted in the opening, and a pot having a side wall portion and a bottom portion, wherein the lid is formed to be placed on the upper edge of the pot when the lower portion of the guide tube is placed in the pot.

Second, this invention provides a pot for culturing plants comprising a lid having a stem opening at the center, a guide tube having a cylindrical portion to be inserted in the stem opening, and a cone portion extending from the cylindrical portion, and a pot having a side wall portion and a bottom portion, wherein the lid is formed to be placed on the upper edge of the pot when the cone portion of the guide tube is placed in the pot.

Third, this invention provides a pot for culturing plants comprising a lid having a stem opening at the center, a guide tube having a cylindrical portion to be inserted in the stem opening, a cone portion extending from the cylindrical



portion, a pot having a side wall portion and a bottom portion, and a water receiving plate having a bottom portion and a rim wall portion, wherein the lid is formed to be placed on the upper edge of the pot when the cone portion of the guide tube is placed in the pot that is used in combination with the water receiving plate.

The guide tube that is inserted in the stem opening on the lid may be embodied in other forms than a form consisting of a cylindrical portion and a cone portion extending from the cylindrical portion. For example, the entire body of the guide tube may be formed in a cone shape body. In such an embodiment, the lower part of the cone shape body is placed in the pot when the lid is placed on the pot.

When the pot of this invention is used, a bulb, or seed etc. is buried in culture soil filled in the pot of this invention. The guide tube is then placed on the culture soil, and the lid is placed on the pot so that the lid can hold the guide tube in place. Further, the water receiving plate is engaged with the bottom portion of the pot.

By storing water in the water receiving plate, the water goes up into the pot through the openings on the bottom of the pot. Additionally, water can be supplied through the stem opening on the lid.

Sprouts put forth from the bulb grow along the inner surface of the cone portion of the guide tube to reach the cylindrical portion. Thus, the cone portion guides sprouts put forth to center to the cylindrical portion.

The sprouts further grow along the inner surface of the cylindrical portion. As a result, respective stems of the plant grow uprightly because they are partially supported by the wall of the cylindrical portion of the guide tube.

Since the pot of this invention comprises a guide tube that guides stems of the plant to grow uprightly, it is suitable for culturing plants in which a plurality of sprouts put forth and grow in different directions such as calla. By

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using the pot of this invention, a proportionally grown plant of an excellent appearance that is difficult to fall down can be obtained.

5. Brief Description of the Drawings

Fig. 1 shows a perspective view of a preferred embodiment of a pot for culturing plants of this invention. Fig. 2 shows perspective views of respective elements of a preferred embodiment of a pot for culturing plants of this invention. Fig. 3 shows a perspective view describing how a preferred embodiment of a pot for culturing a plant of this invention is used.

6. Preferred Embodiments

A preferred embodiment of a pot for culturing a plant according to this invention will be discussed in detail by making reference to the drawings.

As shown in Fig. 1, a pot for culturing plants of a preferred embodiment comprises a lid (1) in which a stem opening (1a) is provided at the center, a guide tube (2) having a cylindrical portion (2a) to be joined with the lid (1), and a cone portion (2b) extending beneath the cylindrical portion (2a), a pot (3) having a side wall portion (3a) and a bottom portion (3b) provided with openings (31), and a water receiving plate (4) having a rim wall portion (4a) and a bottom portion (4b). The water receiving plate (4) is used in combination with the pot (3), and the guide tube (2) is so formed that the lid (1) is placed on the upper edge of the pot in which the cylindrical portion (2a) extends through the stem opening (1a) on the lid (1) when the cone portion (2b) is placed in the pot.

The diameter of the stem opening (1a) on the lid (1) is slightly bigger than that of the cylindrical portion (2a) of the guide tube (2). As shown in Fig. 2, an engaging wall (11) is provided to surround the edge of the lid (1). On the

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engaging wall (11), an L-shape groove (11a) is provided.

Another engaging wall (32) extends from the upper edge of the side wall portion (3a) of the pot (3). The engaging wall (32) is provided with a stick projection (32a) that is engageable with the L-shape groove (11a) of the lid (1).

On the upper surface of the bottom portion (4b) of the water receiving plate (4), engaging hooks (41) are provided to engage in the openings (31) on the bottom portion (3b) of the pot (3).

The engaging hooks (41) and the openings (31) are so formed that water can be supplied into the pot (3) through the openings (31) even when the engaging hooks and the openings are engaged. According to another preferred embodiment, additional openings for supplying water (not shown in the drawings) may be provided on the bottom portion (3b) of the pot (3).

The method of using the pot for culturing plants discussed above will be then explained below.

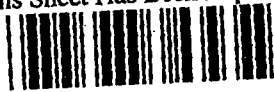
First, the pot (3) is filled with culture soil and a bulb of calla is buried in the soil, as shown in Fig. 3. The guide tube (2) is then placed on the soil, and the lid (1) is placed to engage the L-shape groove (11a) with the stick projection (32a) so that the lid (1) covers the upper edge of the pot (3).

Please note that the diameter of the cylindrical portion (2a) of the guide tube (2) is carefully selected to give proper space for stems and leaves depending on the type of a plant to be cultured.

When the lid (1) is engaged with the pot (3), the lid (1) holds the guide tube (2) in place. The engaging hooks (41) are engaged in the openings (31) to hold the pot (3) on the water receiving plate (4) in place.

When water is stored in the water receiving plate (4), the water is supplied to the soil in the pot (3) via the openings (31) on the bottom portion (3b) of the pot (3). However, water

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may be supplied through the stem opening (1a) on the lid (1).

When sprouts put forth from the bulb, the cone portion (2b) of the guide tube (2) guides the sprouts to grow along the inner surface of the cone portion (2b) so that all sprouts are centered to extend through the cylindrical portion (2a) of the guide tube (2).

When sprouts grow to reach the cylindrical portion (2a), they grow uprightly along the inner surface of the cylindrical portion (2a). As a result, a plant cultured in the pot of this invention grow uprightly because the guide tube (2) directs sprouts growing toward the cylindrical portion (2a) which partially supports the stems grown from the sprouts.

As explained above, when a bulb of calla is cultured in the pot of this invention, most of sprouts grow along the guide tube (2), and equally grown, resulting in a plant with a well proportioned stems, flowers and leaves. Entire body of plants receives daylight very well, and a plant with an excellent appearance could be obtained. No plants fall down when they are grown.

Please note that the pot of this invention may be properly used not only for culturing bulbous plants in which plural sprouts put forth such as calla, but also for any kinds of plants other than bulbous plants.

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CLAIMS

1. A pot for culturing plants characterized by a lid having a stem opening at the center, a guide tube to be inserted in the opening, and a pot having a side wall portion and a bottom portion, wherein the lid is formed to be placed on the upper edge of the pot when the lower portion of the guide tube is placed in the pot.
2. A pot for culturing plants characterized by a lid having a stem opening at the center, a guide tube having a cylindrical portion to be inserted in the stem opening, and a cone portion extending from the cylindrical portion, and a pot having a side wall portion and a bottom portion, wherein the lid is formed to be placed on the upper edge of the pot when the cone portion of the guide tube is placed in the pot.
3. A pot for culturing plants characterized by a lid having a stem opening at the center, a guide tube having a cylindrical portion to be inserted in the stem opening, a cone portion extending from the cylindrical portion, a pot having a side wall portion and a bottom portion, and a water receiving plate having a bottom portion and a rim wall portion, wherein the lid is formed to be placed on the upper edge of the pot when the cone portion of the guide tube is placed in the pot that is used in combination with the water receiving plate.

