UNIVERSAL STORM RESISTANT ADJUSTABLE PLANter BOX HANGER

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Appl. No.: 12/077,964
Filed: Mar. 24, 2008

Related U.S. Application Data
Provisional application No. 60/937,144, filed on Jun. 27, 2007.

Publication Classification
Int. Cl. A47F 5/08 (2006.01)
U.S. Cl. ............................................. 248/207

ABSTRACT
An adjustable storm resistant planter box holder for hanging different size plastic planter boxes from any vertical wall especially brick. Comprising left and right adjustable mounting brackets. An outward projecting horizontal support arm for receiving a planter box thereon.

A belt strapping material is applied to the horizontal support bracket which is wrapped around the planter box and tighten to the support bracket.

The horizontal bracket may be mounted directly to a wooden or any other structure, if no adjustability is required.

Tow sets of brackets are required per planter box
UNIVERSAL STORM RESISTANT ADJUSTABLE PLANTER BOX HANGER

CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims the benefits of Provisional Patent Application No. 60/937,114 filed January 1, 2009.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT

Not applicable

BACKGROUND OF THE INVENTION

This invention relates to a planter box hanger, to support different size plastic planter boxes on any kind of wall, such as brick, wood, concrete etc.

Two sets of brackets are required per planter box.

The vertical support bracket is mounted on the wall and the planter box horizontal support bracket is mounted on to the vertical bracket and is adjustable vertically up and down to fit different size planter boxes.

A high strength strapping material is applied to both horizontal brackets for the protection of the planter boxes against high wind surges or storms. If no adjustability is required, the horizontal bracket may be mounted on to any structure without the vertical bracket.

It is an object of the present invention to provide a save adjustable planter box hanger for all different weather conditions in a safe way.

BRIEF SUMMERY OF THE INVENTION

To provide a method and apparatus for supporting a planter box on a variety of different window ledges and walls safely and to keep the planter box in a safe position during high wind surges. Bracket 10 will fit any constructed difference between the ledge and the brick wall of 2.0 inches. Vertical mounting bracket is attached to the vertical wall. Horizontal support bracket is mounted on to the vertical mounted bracket and is adjustable up and down. Horizontal bracket has a belt strapping attached to it. The belt strapping is tightened around the planter box to keep it in a safe position.

Two sets of brackets are required per planter box.

According, several objects and advantages of my invention are:

Easy installation of the assembled planter box support hanger

The vertical support brackets are mounted to the wall using screws and install

Easy height adjustment for different size of planter boxes

The horizontal bracket may be used on brick or wooden structures by it self, if no adjustability is required, by lengthening the mounting portion of the bracket.

Further objects and advantages of the invention will become apparent from a consideration of the drawings and ensuing description.

BRIEF DESCRIPTION OF THE DRAWINGS

The above object, features and advantages of my invention will be better understood in the following detailed description of the preferred embodiment, especially when taken with the accompanying drawings, wherein,

FIG. 1 is a side view of an adjustable planter box hanger of the present invention showing mounted on a brick wall and showing a 3-inch brick ledge with a small size planter box and a large planter box at a brick incline of 3 degrees.

FIG. 2 is a side view of an adjustable planter box hanger, mounted on a brick wall. Showing a 3-inch brick ledge with a small and large size planter box at a brick incline of 30 degrees.

FIG. 3 is a side view of the planter box support hanger, showing a large size planter box with the belt strapping holding the box in place. The strapping is mounted on to Bracket 13 using a flat washer 17 and screw 18. 20A are plurality of elongated slots needed for adjustment of different size planter boxes. The Strap are held in place using washer 19 and screw 18.

FIG. 4 is a side view similar to FIG. 3, but showing the mounting position of a smaller planter box with a 2.0 recessed wall from the brick ledge. The arrow showing the planter box height adjustment up-down Position. The front view “A” is showing the elongated slot 10E which is required to fit all different brick sizes and allows to be fasten into the horizontal mortar area.

FIG. 5 is a front view, showing the mounting brackets 10 and support bracket 13 in mounted position on a brick wall. 26 is the brick ledge. The provided slot 10A in bracket 10 guides bracket 13.

FIG. 6 is a top view of the mounted bracket 10 and bracket 13. 21 is the small planter box. Groove 10D is holding the nut 14 from turning during tightening of the screw. The belt strapping 20 showing the mounting hole 20B and plurality of slots 20A which are needed for adjustment of different size of planter boxes.

FIG. 7 showing a small and large planter box mounted on to a wall, also showing a water holding trip pan 23.

FIG. 8 showing a small planter box mounted on to a wooden wall or structure without using the vertical adjustable unit.

DETAILED DESCRIPTION OF THE INVENTION

Reference to the manufacture of this product, item 10 and 13 may be produced using aluminum die casting method. Item 10 may also be manufactured using aluminum extrusion method in conjunction with a piercing die or machining operation. Item 13 may be produced from flat aluminum stock and formed with a bending operation. Which option will be used is dependent on cost of the part. The finished parts will be powder coated or anodized. The hanger can hold planter boxes 21 and 22 from 7.00" wide to 5.25" high and 8.00" width. The length of the planter box may vary from 18 inches to 38 inches.

Reference will now be made to FIG. 1 through 8, the structure and operation of the present invention is illustrated. Planter box 21 and 22 are shown in dashed outline at a adjustable position which shows a small and large planter box positioned at the same height in relation to the window ledge 26.

Bracket 10 can be mounted on to any wall, a relief 10C is provided to allow for wall unevenness. Best seen in FIGS. 1 & 6.

Two elongated slots are provided in bracket 10 for mounting the brackets to different width of bricks. Plurality
of elongated slots 20A in said strapping are applied to fit different size planter boxes. Best seen in FIGS. 4 & 6

[0028] FIG. 2 showing a re-adjusted planter box to fit a brick ledge incline of 30 degree. Bracket 13 is the planter box support bracket a belt strapping material 20 is applied to bracket 13 using a flat washer and screw, the other end of the strapping has a plurality of elongated slots 20A to fit all different size planter boxes. The strapping is rapped around the planter box tightly and fastened, using a washer and screw. This holding devise will hold the planter box in a safe position during any kind weather. Best seen in FIGS. 1 & 4

[0029] A provided recess 10A in bracket 10 will keep the horizontal bracket 13 in line during up-down adjustment. Best seen in FIGS. 1 & 6

[0030] A groove 10D in bracket 10 is provided to guide and keep the nut from turning during tightening of the screw, which holds the horizontal bracket in the adjusted height position. Best seen in FIGS. 1 & 6

[0031] An elongated slot 10B is provided in bracket 10 which is needed for the up-down positioning of the horizontal bracket.

[0032] If no up or down adjustment is required, the horizontal support bracket 13 may be mounted on to any structure by it self, the mounting portion of the bracket must be increased in length. Best seen in FIG. 8

I claim:

1. An adjustable planter box hanger mounted to a brick wall or any other wall, from a vertical mounted support bracket; said planter box comprising left and right adjustable downwards and upwards “L” shaped horizontal support brackets, an adjustable high strength strapping material is applied to said horizontal support bracket.

2. The adjustable planter box hanger of claim 1, wherein said vertical mounting bracket fits various size bricks and mounted into the horizontal mortar, between the bricks.

3. The adjustable planter box hanger of claim 2, wherein said vertical mounting bracket provides the up/down movement for the “L” shaped horizontal support bracket.

4. The adjustable planter box hanger of claim 3, wherein said vertical mounting bracket has a groove embedded, which guides the nut and keeps it from turning during tightening of the screw.

5. The adjustable planter box hanger of claim 4, wherein said vertical mounting bracket has a relief on both sides to allow for some unevenness of the wall.

6. The adjustable planter box hanger of claim 5, wherein said vertical mounting bracket has a groove embedded which guides the horizontal support bracket vertically during height adjustments.

7. The adjustable planter box hanger of claim 1, wherein said adjustable belt strapping is applied to said horizontal “L” shaped support bracket which is wrapped around the planter box and tightened to said bracket to hold the planter box in a safe position; plurality of elongated slots in the strapping are provided to fit various size planter boxes.

8. The adjustable planter box hanger of claim 1, plurality of threaded holes in said “L” shaped horizontal bracket are applied to tighten down said high strength strapping material which fits around multiple size planter boxes.

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