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(57) Abstract :

An adjustable plant holding device, comprising, a container 1 configured with handle 2 having two ends for holding plants, wherein the first end is connected with the container 1 and the second end is curved to fix on a rail, a telescopic rod 3 embedded between curved portion of handle 2 in combination with motorized hinge that extends/retracts according width of the rail, an AI camera 4 functionally connected with a microcontroller mounted on the handle 2 for capturing width of the rail, wherein the microcontroller on receiving the captured signals actuates a motor connected to the rod 3, a laser measurement sensor installed on the handle 2 for detecting diameter of the handle 2, and an angle detection sensor to detect tilt angle on the rail in case the rail is deformed, wherein the microcontroller a command to the motorized hinge to control tilting of the handle 2. Ref Figure 1

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