

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014561 A

(19) INDIA

(22) Date of filing of Application :30/03/2021

(43) Publication Date : 23/12/2022

(54) Title of the invention : PORTABLE PLANT UPROOTING AND IMPLANTING DEVICE

(51) International classification	:A01G0027000000, A01G0023060000, A01G0007060000, A01G0013000000, B25J0015000000	(71)Name of Applicant : <b>1)Chandigarh Group of Colleges, Jhanjeri</b> Address of Applicant :State Highway 12A Jhanjeri, Sahibzada Ajit Singh Nagar, Punjab 140307, India. Punjab India
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(86) International Application No	:NA	<b>3)Dr. Sajjan Singh</b>
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A portable plant uprooting and implanting device, comprising, a curvature body 1 having an aperture configured with a handle 2 for providing support on trunk of a plants/trees, a drilling rod 3 for drilling soil around potted plants/trees, an artificial intelligence (AI) based camera 4 functionally connected with a microcontroller for capturing dimensions of the plants/trees, a L-shaped telescopic arm 5 connected with the motor and assembled on a motorized slider 6 for gripping the plant/trees to be uprooted, a locking unit 7 is fixed with slots 8 fabricated in order to assist in uprooting the plants/trees, and an extendable robotic gripper 9 in combination with a telescopic rod 10 connected with the handle 2 for holding and releasing the uprooted plants/trees at a place of implantation of the uprooted plants/trees, wherein the rod 10 extends/retracts to provide movement to the robotic gripper 9 according to the detected dimensions. Ref Figure 1

No. of Pages : 12 No. of Claims : 8