

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211016469 A

(19) INDIA

(22) Date of filing of Application :24/03/2022

(43) Publication Date : 02/02/2024

(54) Title of the invention : ADJUSTABLE DRILLING DEVICE

(51) International classification	:F16L0055180000, E21B0044000000, B23K0103040000, E21B0007020000, B23K0026384000	(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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(87) International Publication No	: NA	<b>6)Vikrant Verma</b>
(61) Patent of Addition to Application Number	:NA	<b>7)Manbir Kaur</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An adjustable drilling device comprising a portable body 1 assembled over a telescopic frame, an Artificial Intelligence camera 2 for creating reference map of a field, a touch responsive display unit 3 for displaying and selecting reference map along with feeding desired hole, a plurality of wheels 4 arranged at base of frame for moving body 1 towards selected location, a drilling module assembled at base of body 1, drilling module further comprises a motorized screw shaft 5 having plurality of concentrically aligned blades 6 of different diameters, each blades 6 are attached to each other via multiple electromagnetic pins 8, microcontroller unlock pins 8 and translate one or more blades 6 towards distal end of shaft, a pneumatic piston assembly 9 connected to the shaft 5 for applying pressure followed by rotation and translation of blades 6 in order to drill holes of desired diameter at user's selected location.

No. of Pages : 13 No. of Claims : 4