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(54) Title of the invention : AUTOMATIC TUBE WELL PIPE REMOVING DEVICE

<p>(51) International classification :B25B0013500000, H04N0007180000, E21B0007000000, B23Q0007040000, G01V0001360000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Jaipur National University Address of Applicant :Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ashish Mittal Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur ----- -----</p> <p>2)Raminder Singh Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur ----- -----</p> <p>3)Vatsala Pawar Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur ----- -----</p> <p>4)Isha Srivastava Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur ----- -----</p>
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(57) Abstract :

An automatic tube well pipe removing device comprises, a housing 1 installed on a ground surface, multiple drilling units 2 for drilling the ground surface, an AI(Artificial Intelligence) enabled image capturing module 3 for capturing the images of an end of the pipe, a suction cup 4 for adhering the pipe, a telescopically operated gripper 6 for gripping the cup 4 over the pipe, a motorized roller 7 wrapped with the chain 5 for pulling out the pipe from the ground surface, a weight sensor 8 for detecting the weight of the pipe lifted by the cup 4, a robotic arm 9 equipped with pipe wrench 10 for removing the section of the pulled out pipe, an electronic nozzle 11 configured with a chamber 12 for dispensing the water on the ground surface, and multiple mechanical arms 13 for gripping and maneuvering the pipe.

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