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(71)Name of Applicant:

1) Jaipur National University

Address of Applicant :Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur- 302017, Rajasthan, India. Jaipur------

Name of Applicant: NA Address of Applicant: NA (72)Name of Inventor:

1)Dharamveer Singh Sagar

Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur- 302017, Rajasthan, India. Jaipur -------

2)Divya Gupta

Address of Applicant: School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur-------

3)Dr. Shiva Soni

Address of Applicant: School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur- 302017, Rajasthan, India. Jaipur -------

4)Dr. Deepankar Sharma

Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur- 302017, Rajasthan, India. Jaipur ------

(57) Abstract:

A hose-pipe clamping device, comprising a frame 1 having a pair of jaws pivoted to each other, a pair of handles 2 to facilitate the opening/closing of jaws for accommodating hose-pipe, pair of C-shaped members 3 for encasing pipe, a motorized hinge joint 4 for providing movement to the members 3, a measurement sensor 6 for detecting diameter of encased pipe, a motorized spool 7 for wrapping and unwrapping of wire, an ultrasonic sensor 8 to check length of wire, a robotic arm 9 for wrapping one end of wire to a hook 12, a motorized sliding arrangement 11 mapped with hook 12 to wrap the wire around the pipe, a robotic link 13 configured with a motorized cutter 14 for cutting the wire and create the second end of wire, a motorized ball and socket joint 10 for tightening the wire wrapped around the encased pipe.

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Jahur National University