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<p>(51) International classification :B23K0026380000, G02F0001133300, B23K0037040000, G06F0003041000, B23K0026140000</p> <p>(86) International Application No Filing Date :NA :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : <b>1)Jaipur National University</b> 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 : <b>1)Mayank Joshi</b> Address of Applicant :School of Engineering &amp; Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur ----- -----</p> <p><b>2)Praveen Kumar</b> Address of Applicant :School of Engineering &amp; Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur ----- -----</p> <p><b>3)Abhishek Gehlot</b> Address of Applicant :School of Engineering &amp; Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur ----- -----</p> <p><b>4)Ashish Mittal</b> Address of Applicant :School of Engineering &amp; Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur ----- -----</p>
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(57) Abstract :

A pipe fitting manufacturing device, comprises of a housing 1 configured with a platform 2 to inserted with metal sheet, a touch interactive display panel 3 mounted on housing 1 to input details, an artificial intelligence based image capturing module 4 installed within housing 1 to detect dimension of sheet, a laser cutter 5 installed within housing 1 to cut sheet, a sliding unit 6 configured with robotic gripper 7 installed on housing 1 to position sheet, multiple pneumatic pins 8 arranged within chamber 9 for gripping sheet, a hydraulic press installed within housing 1 to apply pressure on sheet, an expandable cylindrical body 11 arranged adjacent to chamber 9 to mould fitting, a welding unit installed within housing 1 to weld fitting, a smoothening unit 10 arranged within housing 1 for smoothening fitting surfaces and a threading tool arranged adjacent to unit 10 for carving threads.

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