

(54) Title of the invention : DESIGN AND MANUFACTURE OF MANUAL ELECTRODE COATING MACHINE FOR SMALL-SCALE ARC WELDING ELECTRODE MANUFACTURE

<p>(51) International classification :B23K0035360000, C21D0006000000, C23C0002020000, B05C0001080000, C23C0002060000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</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 : <b>1)Dr.K.Venkata Rao</b> Address of Applicant :Professor, Department of Mechanical Engineering, VFSTR Deemed to be University, Vadlamudi, Guntur, Andhra Pradesh, India - 522213. ----- <b>2)Dr.Ch.Nagaraju</b> <b>3)Satish Kumar</b> <b>4)Vemu Vara Prasad</b> <b>5)Dr.S.Padmavathy</b> <b>6)Mr.Sivasankar G A</b> <b>7)Dr. B. Vijaya Ramnath</b> Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : <b>1)Dr.K.Venkata Rao</b> Address of Applicant :Professor, Department of Mechanical Engineering, VFSTR Deemed to be University, Vadlamudi, Guntur, Andhra Pradesh, India - 522213. --- ----- <b>2)Dr.Ch.Nagaraju</b> Address of Applicant :Professor, Department of Mechanical Engineering, Velagapudi Ramakrishna Siddhartha Engineering College, Kanuru, Vijayawada, Andhra Pradesh, India - 520007. ----- <b>3)Satish Kumar</b> Address of Applicant :Assistant Professor, Department of Mechanical Engineering, G B Pant DSEU Okhla III Campus Delhi Skill and Entrepreneurship, Dwarka, Delhi, India - 110077. ----- <b>4)Vemu Vara Prasad</b> Address of Applicant :Assistant Professor, Department of Mechanical Engineering, University College of Engineering Kakinada, Jntuk, Kakinada, Andhra Pradesh, India - 533003. ----- <b>5)Dr.S.Padmavathy</b> Address of Applicant :Associate Professor, Department of Mechanical Engineering, M.Kumarasamy College of Engineering, Karur, Tamil Nadu, India - 639113. ----- <b>6)Mr.Sivasankar G A</b> Address of Applicant :Assistant Professor, Department of Aeronautical Engineering, KIT-Kalaighar Karunanidhi Institute of Technology, Kannampalayam Post, Coimbatore, Tamil Nadu, India - 641402. ----- - <b>7)Dr. B. Vijaya Ramnath</b> Address of Applicant :Professor and Head, Department of Mechanical Engineering, Sri Sai Ram Engineering College, Chennai - 600044, Tamil Nadu, India. -----</p>
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## (57) Abstract :

The majority of coated steel electrode companies in nations have gone out of business as a result of epileptic electricity, costly coating equipment prices, high production expenses, and high product (coated electrode) costs. Consumer demand as well as expectations from the industrial sector have suffered as a result. The need to create and build a manually operated coating machine that is simple in design, reliable, user-friendly, and ready for use at any time with very little or no maintenance was envisioned. This machine would have to be built from the ground up. The machine annealed steel wires measuring 3 millimetres. The ultimate tensile strengths and Brinell hardnesses for fluxes 1, 2, 3, and 4 are 570, 520, 580, and 510 MPa, respectively. In comparison, the coating machine did its job well. Regarding the performance, we questioned welders with more than ten years of experience. The standard coating machine was popular with the samples. Such are coating machines from other countries. Invest in speeding up the manual coater. Design, die evaluation, flux composition, mechanical quality, and welding performance are some of the topics covered.

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