

(54) Title of the invention : INVESTIGATION ON EMISSION REDUCTION POTENTIAL OF NICKEL AND ZINC COATED CATALYTIC CONVERTERS

<p>(51) International classification :C10L0001120000, G06Q0010060000, C10L0010020000, F01N0003080000, C09D0007630000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</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 :</p> <p>1)Dr.M.Chitra Address of Applicant :Assistant Professor & HOD, Department of Chemistry, Chellammal Women's College, Guindy, Chennai-32 -----</p> <p>2)Dr. K. Kathiresan</p> <p>3)Dr. M. Meikandan</p> <p>4)Dr. P. Suresh Kumar</p> <p>5)Mr.S.Madhavarao</p> <p>6)Dr.P.Vijayakumar</p> <p>7)Mr. M. Sudhakar</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.M.Chitra Address of Applicant :Assistant Professor & HOD, Department of Chemistry, Chellammal Women's College, Guindy, Chennai-32 -----</p> <p>2)Dr. K. Kathiresan Address of Applicant :Assistant Professor, Department of Physics, PSNA College of Engineering and Technology (Autonomous), Dindigul 624622, Tamil Nadu, India -----</p> <p>3)Dr. M. Meikandan Address of Applicant :Associate Professor, Department of Mechanical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai 600062, Tamil Nadu, India -----</p> <p>4)Dr. P. Suresh Kumar Address of Applicant :Associate Professor, Mechanical Engineering Department, RVR and JC College of Engineering, Chowdavaram, Guntur, Andhra Pradesh, India -----</p> <p>5)Mr.S.Madhavarao Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Sagi Rama Krishnam Raju Engineering College(A), Chinna Amiram, Bhimavaram, West Godavari Andhra Pradesh, India, 534204 -----</p> <p>6)Dr.P.Vijayakumar Address of Applicant :Assistant Professor (SG), Department of Aeronautical Engineering, Nehru Institute of Technology (Autonomous), Jawahar Gardens, Kaliyapuram, Thirumalayampalayam, Coimbatore, Tamil Nadu 641105 -----</p> <p>7)Mr. M. Sudhakar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Sri Sai Ram Engineering College, West Tambaram, Chennai, Tamil Nadu – 600044 -----</p>
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(57) Abstract :

The proposed invention focuses on investigating the emission reduction potential of catalytic converters coated with nickel and zinc. By exploring these alternative coatings, the invention aims to enhance the efficiency, durability, and cost-effectiveness of catalytic converters. Laboratory experiments, computer simulations, and analysis of real-world data will be conducted to evaluate the coated converters' performance. The invention recognizes the need for optimized coating composition, thickness, and structure to maximize catalytic activity and pollutant conversion efficiency. The findings of this research have implications for various industries and environmental regulations, offering a promising solution for reducing harmful emissions and promoting sustainable development. Accompanied Drawing [FIGS. 1-2]

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