

(54) Title of the invention : An Economic Portable Nano Particles Based Sewage Water to Drinking Water Convertor

<p>(51) International classification :C02F0001280000, C11D0003120000, C11D0003200000, C02F0001467000, B82Y0030000000</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)Mr.G.M.Pradeep Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, Velammal Institute of Technology, Chennai – Kolkatta High Way, Panchetti - 601204, Thiruvallur District Tamil Nadu, India. ----- 2)Dr.M.S.Heaven Dani 3)Mr.K.Kalaiselvan 4)Dr.V.Ramasamy 5)Velammal Institute of Technology 6)Mr. J. Vasanthe Roy 7)Mr.Adithya Nanda.B 8)Mr.Kawshik .P 9)Mr.Sundar .L Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr.G.M.Pradeep Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, Velammal Institute of Technology, Chennai – Kolkatta High Way, Panchetti - 601204, Thiruvallur District Tamil Nadu, India. ----- 2)Dr.M.S.Heaven Dani Address of Applicant :Associate Professor, Department of Mechanical Engineering, Velammal Institute of Technology, Chennai – Kolkatta High Way, Panchetti - 601204, Thiruvallur District Tamil Nadu, India. ----- 3)Mr.K.Kalaiselvan Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Velammal Institute of Technology, Chennai – Kolkatta High Way, Panchetti - 601204, Thiruvallur District Tamil Nadu, India. ----- 4)Dr.V.Ramasamy Address of Applicant :Assistant Professor, Department of Mechatronics Engineering, Velammal Institute of Technology, Chennai – Kolkatta High Way, Panchetti - 601204, Thiruvallur District Tamil Nadu, India. ----- 5)Mr. J. Vasanthe Roy Address of Applicant :Assistant Professor, Department of Mechanical Engineering, S.A. Engineering College, Poonamallee - Avadi Road, Veeraraghavapuram, Thiruverkadu Chennai - 600077 Tamil Nadu, India. ----- 6)Mr.Adithya Nanda.B Address of Applicant :Student, Department of Mechanical Engineering, Velammal Institute of Technology, Chennai – Kolkatta High Way, Panchetti - 601204, Thiruvallur District Tamil Nadu, India. ----- 7)Mr.Kawshik .P Address of Applicant :Student, Department of Mechanical Engineering, Velammal Institute of Technology, Chennai – Kolkatta High Way, Panchetti - 601204, Thiruvallur District Tamil Nadu, India. ----- 8)Mr.Sundar .L Address of Applicant :Student, Department of Mechanical Engineering, Velammal Institute of Technology, Chennai – Kolkatta High Way, Panchetti - 601204, Thiruvallur District Tamil Nadu, India. -----</p>
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(57) Abstract :
ABSTRACT An Economic Portable Nano Particles based Sewage Water to Drinking Water Convertor to convert the sewage water into drinking water within a short time period, is disclosed herein. An Economic Portable Nano Particles based Sewage Water to Drinking Water Convertor consists of a container with two layers of filtering materials. The first layer is made of aluminium and aluminium oxide nano-powder which aids in the removal of metal ions in the sewage water and the second layer is sand to effectively filter out the suspended particles. The layers are mounted on a simple container which aids in making the whole setup portable.

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