

(54) Title of the invention : PALLADIUM DOPED MANGANESE OXIDE NANOCORN AS AN ANTIMICROBIAL AGENT AND METHOD OF PREPARATION THEREOF

<p>(51) International classification :A61P 310400, B01J 233400, C01G 450200, C10G 020000, H01M 045050</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 :</p> <p>1)Chaudhary Charan Singh University, Meerut Address of Applicant :Meerut – 250004, Uttar Pradesh, India Meerut -----</p> <p>2)Yogendra Kumar Gautam Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Sagar Vikal Address of Applicant :Department of Physics, Chaudhary Charan Singh University, Meerut – 250004, U.P., India Meerut -----</p> <p>2)Yogendra Kumar Gautam Address of Applicant :Department of Physics, Chaudhary Charan Singh University, Meerut – 250004, U.P., India Meerut -----</p> <p>3)Durvesh Gautam Address of Applicant :Department of Physics, Chaudhary Charan Singh University, Meerut – 250004, U.P., India Meerut -----</p> <p>4)Ajay Kumar Address of Applicant :Department of Biotechnology, Mewar Institute of Management, Ghaziabad, Uttar Pradesh 201012, India Ghaziabad -----</p> <p>5)Ashwani Kumar Address of Applicant :Nanoscience Laboratory, Institute Instrumentation Centre, IIT Roorkee, Roorkee 247667, India Roorkee -----</p> <p>6)Kavita Sharma Address of Applicant :Department of Physics, Chaudhary Charan Singh University, Meerut – 250004, U.P., India Meerut -----</p> <p>7)Vijay Parewa Address of Applicant :Centre of Advanced Studies, Department of Chemistry, University of Rajasthan, Jaipur, India Jaipur -----</p> <p>8)Beer Pal Singh Address of Applicant :Department of Physics, Chaudhary Charan Singh University, Meerut – 250004, U.P., India Meerut -----</p> <p>9)Anuj Kumar Address of Applicant :Department of Physics, Chaudhary Charan Singh University, Meerut – 250004, U.P., India Meerut -----</p>
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(57) Abstract :

The invention provides for a palladium doped manganese oxide nanocorn that is effective antibacterial and antifungal agent. The invention further provides for a manganese oxide nanocorn that is effective against S. sclerotiorum, C. gloeosporioides and E. faecalis. The present invention further discloses a method of preparing palladium doped manganese oxide nanocorn. The said method is efficient, eco-friendly, cost –effective and easy to perform. Further, the said method utilizes plant parts of Syzygium aromaticum.