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(54) Title of the invention : GREEN SYNTHESIS OF SILVER NANOPARTICLES FROM ANDROGRAPHIS PANICULATA USING ECO-FRIENDLY HYDRODISTILLATION METHOD

<p>(51) International classification :A61K0036190000, A61K0033380000, B22F0009240000, B82Y0030000000, B82Y0040000000</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 : 1)Mrs. Kumari Priyanka Address of Applicant :Assistant Professor, SDGI Global University (SGU), NH-9, Delhi - Hapur Road, Ghaziabad, Uttar Pradesh - 201001 Ghaziabad ----- 2)Ms. Neetu Mandal 3)Mr. Aakash Saha 4)Mr. Akash Luniya 5)Mr. Arjun Kumar Sen 6)Mr. Alakesh Debnath 7)Mr. Manish Kumar Rajoriya 8)Ms. Ayantika Sil 9)Ms. Sharmila Mondal 10)Ms. Rekha Rani Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mrs. Kumari Priyanka Address of Applicant :Assistant Professor, SDGI Global University (SGU), NH-9, Delhi - Hapur Road, Ghaziabad, Uttar Pradesh - 201001 Ghaziabad ----- 2)Ms. Neetu Mandal Address of Applicant :Assistant Professor, IES College of Pharmacy, IES University, Kalkheda, Ratibad Main Road, Bhopal, Madhya Pradesh - 462044 Bhopal ----- 3)Mr. Aakash Saha Address of Applicant :Assistant Professor, BCDA College of Pharmacy & Technology, 78/1, Jessore Road (South), Barasat, Kolkata, West Bengal - 700127 Kolkata ----- 4)Mr. Akash Luniya Address of Applicant :Assistant Professor, Sam Global University, Raisen, Bhopal, Madhya Pradesh - 462044 Bhopal ----- 5)Mr. Arjun Kumar Sen Address of Applicant :Assistant Professor, BCDA College of Pharmacy & Technology, 78/1, Jessore Road (South), Barasat, Kolkata, West Bengal - 700127 Kolkata ----- 6)Mr. Alakesh Debnath Address of Applicant :Assistant Professor, BCDA College of Pharmacy & Technology, 78/1, Jessore Road (South), Barasat, Kolkata, West Bengal - 700127 Kolkata ----- 7)Mr. Manish Kumar Rajoriya Address of Applicant :H.O.D, CBS College of Pharmacy & Technology, Faridabad, Haryana - 121101 Faridabad ----- 8)Ms. Ayantika Sil Address of Applicant :Assistant Professor, Gupta College of Technological Sciences, Ashram More, G. T. Road, Asansol, West Bengal - 713301 Asansol ----- 9)Ms. Sharmila Mondal Address of Applicant :Assistant Professor, Hooghly BC Roy, Institute of Diploma Pharmacy, Bainchigram, Hooghly, West Bengal - 712135 Hooghly ----- 10)Ms. Rekha Rani Address of Applicant :Associate Professor, School of Pharmacy, Rai University, Ahmedabad, Gujarat - 382260 Ahmedabad -----</p>
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(57) Abstract :
The present invention relates to a novel and environmentally friendly method for the synthesis of silver nanoparticles (AgNPs) using Andrographis paniculata extracts and a hydro distillation process. The method involves the reduction of silver ions from a silver precursor in the presence of Andrographis paniculata extract, resulting in the formation of stable and biocompatible silver nanoparticles. The eco-friendly hydro distillation method ensures the sustainability of the synthesis process while retaining the inherent therapeutic properties of Andrographis paniculata.

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