

(54) Title of the invention : NANOPARTICLES BASED CANCER MEDICATION DEVICE

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(71)Name of Applicant :  
**1)Dr. Rashel Sarkar**  
 Address of Applicant :Associate Professor, Department of Computer Science and Engineering, The Assam Royal Global University, District-Kamrup(M), Assam, 781035, India -----  
**2)Nilakshi Deka**  
**3)Dr. Samarjit Das**  
**4)Dr. Israfil Hussain**  
**5)Dr. Novonita Baruah**  
 Name of Applicant : NA  
 Address of Applicant : NA

(72)Name of Inventor :  
**1)Dr. Rashel Sarkar**  
 Address of Applicant :Associate Professor, Department of Computer Science and Engineering, The Assam Royal Global University, District-Kamrup(M), Assam, 781035, India -----  
**2)Nilakshi Deka**  
 Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, The Assam Royal Global University, District-Kamrup(M), Assam, 781035, India -----  
**3)Dr. Samarjit Das**  
 Address of Applicant :Associate Professor, Department of Computer Science and Engineering, The Assam Royal Global University, District-Kamrup(M), Assam, 781035, India -----  
**4)Dr. Israfil Hussain**  
 Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, The Assam Royal Global University, District-Kamrup(M), Assam, 781035, India -----  
**5)Dr. Novonita Baruah**  
 Address of Applicant :Assistant Professor, Department of Molecular Biology and Biotechnology, Cotton University, District- Kamrup(M), Assam, India -----

(57) Abstract :  
 [050] The "Nanoparticles Based Cancer Medication Device" represents a groundbreaking innovation in the field of cancer therapy. This device leverages the unique properties of nanoparticles to precisely deliver therapeutic agents to cancer cells, minimizing harm to healthy tissues. It integrates active targeting mechanisms through surface-modified nanoparticles, genetic profiling, and biomarker analysis for personalized treatment plans, and the simultaneous delivery of multiple therapeutic agents to combat drug resistance. Real-time monitoring capabilities enable dynamic treatment adjustments, enhancing therapeutic efficacy. The device's minimally invasive nature reduces the physical and emotional burden on patients, offering an improved quality of life. Overall, this invention holds the promise of revolutionizing cancer treatment by advancing precision medicine and delivering hope for better outcomes in the fight against cancer. Accompanied Drawing [FIGS. 1-2]

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