

(54) Title of the invention : A POLAR-AZIMUTHAL TEMPERATURE -DEPENDENT LIGHT SCATTERING DEVICE

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(71)**Name of Applicant :**
1)Dr. Sanchita Roy
 Address of Applicant :#12, ,Bylane 4, Gandhibasti, P. O. Silpukhuri, Guwahati, 781003, Assam -----
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Dr. Sanchita Roy
 Address of Applicant :#12, ,Bylane 4, Gandhibasti, P. O. Silpukhuri, Guwahati, 781003, Assam -----
2)Farhana Hussain
 Address of Applicant :Jana Path, Jail Road,JMCH,Kamala Baria gaon,Jorhat,Jail Road,Jorhat,Jorhat, East,Jorhat, Assam 785001 East,Jorhat -----
3)Musabbir Islam
 Address of Applicant :Ward no -2, Dhai Ali , Sibsagar,Assam. Pin -785640 Sibsagar -----
4)Kashyap Kalita
 Address of Applicant :HOUSE NO-20-A, BELTOLA LAKHIMANDIR BYE LANE 2, OPPOSITE OF SHANKARDEV, NETRALAYA,BELTOLA, KAMRUP METRO ASSAM, 781028 BELTOLA -----
5)Krishanu Lal Mazumder
 Address of Applicant :House no. 28, Arunodoi Path , Hatigaon, Guwahat PIN- 781038 Guwahat -----

(57) Abstract :
 In the present disclosure A Polar-Azimuthal Temperature-dependent Light Scattering device does the following tasks to obtain temperature dependent morphological data of a subject along an Polar-Azimuthal axis. The tasks include obtain a optical signal from a coherent light source, subject the obtained optical signal to a beam spilter to generate a first refernce optical signal and a second refernce optical signal, subject the second refernce optical signal to a Polar-Azimuthal Temperature-dependent Light Scattering device to generate a captured electrical signal, generate analytical morphological data using a data analytical unit, based on the second refernce optical signal and the captured electrical signal. followed by subject the second reference optical signal to a polarization unit to generate a polarized signal, subject the polarized signal to a sample under a specific condition formed using a peltier unit, receive reflected optical signals using a detector along poloar azimuthal angle, generate output electrical signal based on the received reflected optical signals.

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