

(54) Title of the invention : THERMOMAGNETIC CONVECTION PERMEATED WITH SUSPENDED DUST PARTICLES THROUGH A DARCY-BRINKMAN POROUS MEDIUM

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(71)Name of Applicant :
1)Dr. Rajan Singh
 Address of Applicant :Assistant Professor, Department of Mathematics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----
2)Dr. B.K. Singh
3)Dr. Sarika Arora
4)Dr. Nidhi Tiwari
5)Mr. Vipin Kumar
6)Mr. Deepak Sharma
7)Dr. Richa Saxena
8)Dr. Narender Singh
9)Dr. R.K. Tiwari
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Rajan Singh
 Address of Applicant :Assistant Professor, Department of Mathematics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----
2)Dr. B.K. Singh
 Address of Applicant :Professor, Department of Mathematics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----
3)Dr. Sarika Arora
 Address of Applicant :Associate Professor, Department of Chemistry, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----
4)Dr. Nidhi Tiwari
 Address of Applicant :Assistant Professor, Department of Mathematics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----
5)Mr. Vipin Kumar
 Address of Applicant :Assistant Professor, Department of Mathematics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----
6)Mr. Deepak Sharma
 Address of Applicant :Assistant Professor, Department of Mathematics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----
7)Dr. Richa Saxena
 Address of Applicant :Assistant Professor, Department of Physics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----
8)Dr. Narender Singh
 Address of Applicant :Assistant Professor, Department of Physics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 2441028, India -----
9)Dr. R.K. Tiwari
 Address of Applicant :Assistant Professor, Department of Mathematics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----

(57) Abstract :
 THERMOMAGNETIC CONVECTION PERMEATED WITH SUSPENDED DUST PARTICLES THROUGH A DARCY-BRINKMAN POROUS MEDIUM ABSTRACT The present invention relates to an thermomagnetic convection permeated with suspended dust particles through a darcy-brinkman porous medium. The system (100) comprises of an analyzing module, a measurement module, and an outcome module. The analyzing module is used to analyze the thermo-convective instability of a system. It includes perturbation technique, Darcy-Brinkman model, measurement module, kinematic viscosity, medium porosity, permeability, darcy-brinkman number parameter, alfvén velocity, suspended particle parameter, and outcome module. The outcome module is configured to determine how the growth rate of disturbances depends on various factors. [Figure 1]

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