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

<p>(51) International classification :C09K 032200, G01N 150800, H01H 712400, H01H 714000, H01H 717400</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)Dr. Rajan Singh Address of Applicant :Assistant Professor, Department of Mathematics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----</p> <p>2)Dr. B.K. Singh</p> <p>3)Dr. Sarika Arora</p> <p>4)Dr. Nidhi Tiwari</p> <p>5)Mr. Vipin Kumar</p> <p>6)Mr. Deepak Sharma</p> <p>7)Dr. Richa Saxena</p> <p>8)Dr. Narender Singh</p> <p>9)Dr. R.K. Tiwari</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Rajan Singh Address of Applicant :Assistant Professor, Department of Mathematics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----</p> <p>2)Dr. B.K. Singh Address of Applicant :Professor, Department of Mathematics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----</p> <p>3)Dr. Sarika Arora Address of Applicant :Associate Professor, Department of Chemistry, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----</p> <p>4)Dr. Nidhi Tiwari Address of Applicant :Assistant Professor, Department of Mathematics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----</p> <p>5)Mr. Vipin Kumar Address of Applicant :Assistant Professor, Department of Mathematics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----</p> <p>6)Mr. Deepak Sharma Address of Applicant :Assistant Professor, Department of Mathematics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----</p> <p>7)Dr. Richa Saxena Address of Applicant :Assistant Professor, Department of Physics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----</p> <p>8)Dr. Narender Singh Address of Applicant :Assistant Professor, Department of Physics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 2441028, India -----</p> <p>9)Dr. R.K. Tiwari Address of Applicant :Assistant Professor, Department of Mathematics, School of Sciences, IFTM University, Moradabad, Uttar Pradesh, 244102, India -----</p>
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(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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