

(54) Title of the invention : ANALYSIS OF SKIN FRICTION AND NUSSELT NUMBER IN MHD STAGNATION POINT FLOW OF A MICROPOLAR FLUID IN PRESENCE OF POROUS MEDIUM

(51) International classification :B64C0021060000, G06F0017130000, G01J0003120000, G01N0013000000, G06F0017170000

(86) International Application No :NA  
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)VEDANT GARG**

Address of Applicant :Jayoti Vidyapeeth Women's University, Vedaant Gyan Valley, Village-Jharna, Mahala Jobner Link Road, Jaipur Ajmer Express Way, NH-8, Jaipur-303122, Rajasthan (INDIA) -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

**1)Jv'n Dr. Vishal Saxena**

Address of Applicant :Jayoti Vidyapeeth Women's University, Vedaant Gyan Valley, Village-Jharna, Mahala Jobner Link Road, Jaipur Ajmer Express Way, NH-8, Jaipur-303122, Rajasthan (INDIA) Jaipur -----

(57) Abstract :

Acknowledgement to the Motivator: Inventors express their heartiest gratitude to the Honorable Advisor and CEO of the University Sir JV'n Vedant Garg for the motivation and support in the study. Introduction In the present study, the continuous laminar flow of an incompressible electrically conducting micropolar fluid impinging on a permeable flat plate in a porous medium in the presence of a transverse magnetic field is investigated. It is taken into account the effect of viscous dissipation. Similarity variables are used to reduce the governing boundary layer equations into a set of nonlinear differential equations. The Runge - Kutta method is combined with the Shooting Technique to solve the resulting equations numerically. Through graphical depiction, the impacts of several involved parameters have been studied.

No. of Pages : 4 No. of Claims : 2