

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141033308 A

(19) INDIA

(22) Date of filing of Application :24/07/2021

(43) Publication Date : 06/08/2021

(54) Title of the invention : MAGNETO HYDRODYNAMIC HEAT TRANSFER USING WATER-BASED NANOFLUIDS WITH SORET AND VISCOUS DISSIPATION EFFECTS

(51) International classification	:A23L0033210000, H01L0027320000, G02B0001000000, A23L0033100000, D06M0016000000	(71)Name of Applicant : 1)Dr. NALLAPATI VEDAVATHI Address of Applicant :Associate professor in Mathematics, Koneru Lakshmaiah Education Foundation Deemed to be University, Vaddeswaram, GUNTUR, Andhra Pradesh, India- 522502 Andhra Pradesh India 2)Dr. Ch. BABY RANI 3)Dr. SHAIK MOHIDDIN SHAW 4)Dr NAGARAJU DASARI 5)Dr. NOORBHASHA RAFI 6)Dr. BALAIAH MOTHUKURI 7)Dr. MUNAGALA BABU PRASAD 8)Dr. NARAYANA BOPPANA 9)Dr. K.S. BALA MURUGAN 10)Dr. G. DHARMAIAH
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. NALLAPATI VEDAVATHI 2)Dr. Ch. BABY RANI 3)Dr. SHAIK MOHIDDIN SHAW 4)Dr NAGARAJU DASARI 5)Dr. NOORBHASHA RAFI 6)Dr. BALAIAH MOTHUKURI 7)Dr. MUNAGALA BABU PRASAD 8)Dr. NARAYANA BOPPANA 9)Dr. K.S. BALA MURUGAN 10)Dr. G. DHARMAIAH
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract In this research work, two types of nanoliquids, TiO₂ and Al₂O₃ water structured nanoliquids, were studied with dissipation and solet effect. Temperature and concentration are expected to be faltering with duration consonantly from an everlasting mean at the surface as the platter is altered by a continual velocity U₀. The small Perturbation method is used to explain the pleat equations, which are bogus of the swinging category. The results are shown graphically and discussed in terms of the various outcomes. The defined layer density is amplified by the diffusion effect.

No. of Pages : 16 No. of Claims : 7