

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/05/2022

(21) Application No.202211025663 A

(43) Publication Date : 06/05/2022

(54) Title of the invention : ANTI-FRICTION ADDITIVE AND METHOD FOR USING SAME

(51) International classification :C10M0177000000, C10M0171000000, C10M0129700000, C10M0145360000, C10M0171060000

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

(87) International Publication No : NA

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

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

(71)Name of Applicant :

1)Prof. Intezar Mahdi

Address of Applicant :Director, School of Engineering and Technology, IFTM University, Moradabad, UP 244001 -----

2)Prof. Vishal Saxena

3)Mr. Syed Baqar Imam

4)Mr. Hemant Kumar Mishra

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Prof. Intezar Mahdi

Address of Applicant :Director, School of Engineering and Technology, IFTM University, Moradabad, UP 244001 -----

2)Prof. Vishal Saxena

Address of Applicant :Head, Department of Mechanical Engineering, SET, IFTM University, Moradabad, UP 244001 -----

3)Mr. Syed Baqar Imam

Address of Applicant :Head, Department of Civil Engineering, SET, IFTM University, Moradabad, UP 244001 -----

4)Mr. Hemant Kumar Mishra

Address of Applicant :Assistant Professor, Department of Mechanical Engineering, SET, IFTM University Moradabad, UP 244001 -----

(57) Abstract :

The present invention discloses an anti-friction additive and method for using same. The main aspect of the present invention is to prepare an AW and AF additives containing artificial liquid lubricant from commercially available liquid paraffin and investigate its properties and compare with commercially available lubricants of similar nature. Further, to study the role of wear debris, of various sizes, types, and quantity, on the tribological characteristics of steel-on-steel contacts under lubricated sliding. At the onset of the work, commercially available liquid paraffin will be taken as base oil in which different quantitative of AW, AF, Anti corrosion additives will be added in different concentrations to prepare a new lubricant. This clean lubricant will be used to investigate the wear and friction behavior of steel-on-steel sliding contacts, using Timken Ok Load Tester.

No. of Pages : 21 No. of Claims : 7