

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211016473 A

(19) INDIA

(22) Date of filing of Application :24/03/2022

(43) Publication Date : 02/02/2024

(54) Title of the invention : MACHINE COOLANT MANAGEMENT SYSTEM

(51) International classification :B01D0021240000,  
F24H0001200000,  
F04B0023020000,  
B01F0007180000,  
E03F0007100000

(31) Priority Document No :NA  
(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 Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)Chandigarh Group of Colleges, Jhanjeri**

Address of Applicant :State Highway 12A Jhanjeri, Sahibzada,  
Ajit Singh Nagar, Punjab 140307, India. Punjab India

(72)Name of Inventor :

**1)Kushdeep Singh**

**2)Anikate Gupta**

**3)Kuldeepak Saini**

**4)Arvind Kumar**

**5)Pardeep Kumar**

**6)Sarabjit Singh**

**7)Tariq Ahmad**

**8)Suhail Mushtaq**

(57) Abstract :

The present invention relates to a machine coolant management system comprises of an odor sensor 2 mapped within the tank 1 for detecting odor of coolant within the tank 1, a communication module associated establishes a wireless communication between computing unit 3 and the system for notifying the concerned authorities and user, a pair of guiding rails 4 configured with a motorized scrapper 5 fabricated on top portion of the tank 1 for removing scraps, debris, sludge adhered on base of the tank 1, multiple pneumatic bars 6 assembled at outer corners of the tank 1 for supporting on a ground surface, a chamber 7 configured with a motorized lid 8 installed on the tank 1 where a motorized pneumatic pusher 10 assembled within the tank 1 pushes the debris/scraps/sludge towards the chamber 7.

No. of Pages : 13 No. of Claims : 5