

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511093116 A

(19) INDIA

(22) Date of filing of Application :28/09/2025

(43) Publication Date : 14/11/2025

(54) Title of the invention : VEHICLE FIRE SUPPRESSION SYSTEM

(51) International classification	:G08B0025140000, H01L0025065000, A62C0003070000, A61B0005000000, A62C0035680000	(71) Name of Applicant : 1)Chitkara University Address of Applicant :Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura Punjab India 2)Chitkara Innovation Incubator Foundation
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Yogesh
(33) Name of priority country	:NA	
(86) International Application No	:	
Filing Date	:01/01/1900	
(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	

(57) Abstract :

A vehicle fire suppression system, comprising a sensing array 101 is installed within a fire-prone region of a vehicle to monitor temperature and fumes, a suppression arrangement 102 is also installed in the fire-prone region to release suppressant in the form of high-velocity streams at the detected location of a high-risk anomaly and comprises one or more canisters 102a containing suppressant, which are connected via conduit 102c to multiple nozzles 102b positioned throughout the region, valve 102d integrated within the conduit 102c regulate the flow of suppressant, an alert module, configured with a processing unit 104, generates alerts through a user interface for low-risk anomalies, a communication unit 103 enabling communication with the user interface and is powered by a battery 105, at least one protective housing 201 encloses one or more of the sensing array 101, suppression arrangement 102, processing unit 104, communication unit 103, and battery 105.

No. of Pages : 23 No. of Claims : 10