

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111005723 A

(19) INDIA

(22) Date of filing of Application :10/02/2021

(43) Publication Date : 19/02/2021

(54) Title of the invention : AN IOT BASED AUTONOMOUS FIREFIGHTING DRONE THROUGH MACHINE LEARNING

(51) International classification	:B64C0039020000, G08B0017120000, B64D0047080000, A62C0003020000, G05D0001000000	(71)Name of Applicant : 1)Dr. Abhay Kumar Agarwal Address of Applicant :Department of Computer Science and Engineering, Kamla Nehru Institute of Technology, Sultanpur, U.P. Uttar Pradesh India 2)Dr. Kanta Prasad Sharma 3)Dr. Chander Kant 4)Alka Choudhary
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Abhay Kumar Agarwal 2)Dr. Kanta Prasad Sharma 3)Dr. Chander Kant 4)Alka Choudhary
(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	

(57) Abstract :

The present invention is related to an autonomous drone (100) for firefighting. The drone 5 (100) is capable of flying to a high altitude and extinguishing the fire present in the highrise buildings. The autonomous drone (100) comprises of the high-definition camera (104) and the thermal imaging camera (106) which are used for capturing the visuals in real-time. The thermal imaging camera (106) can enable the drone (100) to see through the wall of smoke and identify the exact location of the fire. The hydrant material stored 10 in the storage tank (108) is sprayed upon the location of the fire using the nozzle (110) which is a high-pressure nozzle (110). The drone (100) is capable of communication with the person flying the drone (100) through a microcontroller present in the control unit (114).

No. of Pages : 16 No. of Claims : 6