(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2025
(21) Application No.202511100837 A
(43) Publication Date : 05/12/2025

(54) Title of the invention : AN IoT-BASED SYSTEM FOR REAL-TIME BUILDING FIRE SAFETY MONITORING

(51) International classification	:G08B0017100000, G08B0007060000, G08B0005360000, H04L0067100000, G01S0013931000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(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 Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY
Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
(72)**Name of Inventor :**
1)MAYANK DEEP KHARE
2)VATIKA JALALI

(57) Abstract :
The present invention discloses an IoT-based system for real-time building fire safety monitoring. The system comprises IoT-enabled sensors (101) for detecting smoke, temperature, and hazardous gases, connected via a wireless gateway (102) to a centralized control unit (103). A cloud analytics platform (104) ensures predictive hazard detection, while a user dashboard (105) provides real-time alerts. Integration with building management systems (106) enables automatic suppression and evacuation support. The invention ensures faster response, reduced false alarms, and enhanced safety for residential, commercial, and industrial buildings.

No. of Pages : 15 No. of Claims : 6