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(71)**Name of Applicant :**
1)Chitkara Innovation Incubator Foundation
Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. ---------- ----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)PATHAK, Ankur
Address of Applicant :House No:888, Parade Moholla, Kalka, Haryana - 133302, India. ---------- ----------
2)SINGH, Sartajvir
Address of Applicant :Associate Professor, Chitkara University, Atal Shiksha Kunj, Pinjore-Nalagarh National Highway (NH-21A), District: Solan - 174103, Himachal Pradesh, India. ---------- ----------

(57) Abstract :
The present disclosure discloses a wearable device 100 such as watch to detect fire and gas leakage. The wearable device 100 include a housing 102 having sensors such as photoelectric sensor 104-1, MQ2 Gas sensor 104-2, optical smoke sensor 104-3, and electrochemical oxygen sensor 104-4, configured to detect one or more fire characteristics in the area, such as smoke, temperature and the likes. Upon detection of fire or smoke beyond a threshold, an alert unit 112 located inside the housing 102 may be activated to produce sound or vibrate to notify the wearer, and the wearer may leave the area, or may take precautionary actions. In addition, when the fire is uncontrollable, message may be transmitted to fire station and police station automatically.

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