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(54) Title of the invention : "WEARABLE DEVICE FOR MONITORING AND ALERTING USERS OF POTENTIAL WORKPLACE HAZARDS AND SAFETY RISKS IN REAL-TIME"

(51) International classification	:C07K 164200, G06F 030100, G06T 190000, H04N 052100, H04W 120200	(71)**Name of Applicant :** **1)Noida Institute of Engineering and Technology** Address of Applicant :19, Knowledge Park-II, Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida ---------- ---------- **Name of Applicant : NA** **Address of Applicant : NA** (72)**Name of Inventor :** **1)Ashutosh Kumar Singh** Address of Applicant :19, Knowledge Park-II, Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida ---------- ---------- **2)Sanjay Kumar** Address of Applicant :19, Knowledge Park-II, Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida ---------- ---------- **3)Shahazad Ali** Address of Applicant :19, Knowledge Park-II, Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida ---------- ---------- **4)Kanika Jindal** Address of Applicant :19, Knowledge Park-II, Institutional Area Greater Noida Uttar Pradesh India 201306 Greater Noida ---------- ----------
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(57) Abstract :
"WEARABLE DEVICE FOR MONITORING AND ALERTING USERS OF POTENTIAL WORKPLACE HAZARDS AND SAFETY RISKS IN REAL-TIME" Accordingly, embodiments herein disclose a wearable device for monitoring and alerting users of potential workplace hazards and safety risks in real-time. The device comprises a housing adapted to be worn by users on a wrist of the users, and a plurality of sensors disposed in the housing. Further, the proposed device may include an accelerometer disposed in the housing, a radio frequency transceiver disposed in the housing, and a processor disposed in the housing. The processor analyzes signals from the accelerometer to determine whether the signals are indicative of a predefined emotion state of the users. The processor transmits the emotion state to a remote device via the radio frequency transceiver. Also, the processor generates an audible, tactile or visual alert if the threshold value is greater than the predefined value or lower than the predefined value.

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