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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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