DEVICE AND METHOD FOR MONITORING THE RESPIRATORY RATE OF A SUBJECT

DESCRIPTION OF INVENTION

The invention relates to a device for monitoring the respiratory rate of a subject, which comprises: means for detecting changes in the subject's torso that indicate breathing movements; a processor that receives signals from the detection means and checks that a respiratory frequency of the subject is within pre-established reference respiratory frequency values; and means for preventing emergencies, which are designed to be activated by the processor. According to the invention, the detection means comprise a laser emitter designed to project at least one point onto the subject's torso; a camera; and a filter that is coupled to the camera and designed to detect only the light spectrum emitted by the laser emitter.

BUSINESS APPLICATIONS

Automobile and Healthcare

TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

The present invention relates to the technologies of surveillance or monitoring of the respiratory rate of a subject, be it a driver of a vehicle, an athlete, a patient, etc., that is, a subject involved in any activity that requires maintaining a Continuous monitoring of your respiratory rate.

Particularly, objects of the present application are a device and a procedure for monitoring the respiratory rate of a subject, based on the census of increases and decreases in volume developed by the torso of the subject when breathing.

STATE OF TECHNOLOGY DEVELOPMENT

The technology is currently at TRL6, tested in the laboratory and under controlled field conditions.

INDUSTRIAL PROPERTY RIGHTS

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WO2019145580A1 DEVICE AND METHOD FOR MONITORING THE RESPIRATORY RATE OF A SUBJECT

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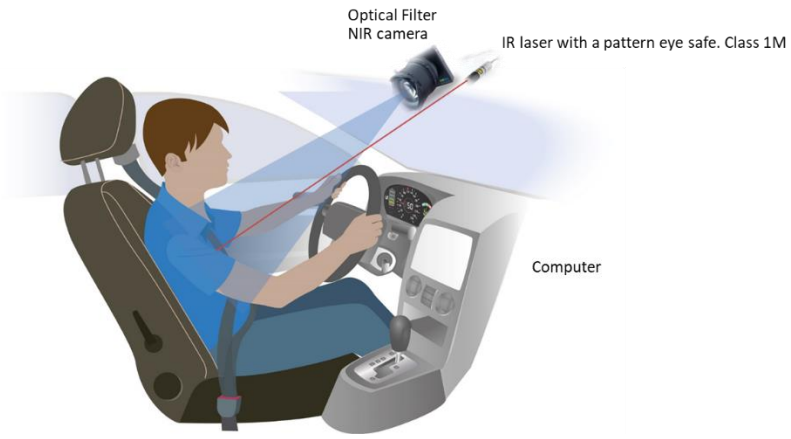

CONTACT INFORMATION
Jose.solaz@ibv.org