



[54] APPARATUS AND METHOD FOR MONITORING AND IMPROVING THE ALERTNESS OF A SUBJECT

Primary Examiner—Richard J. Apley
Assistant Examiner—Glenn E. Richman
Attorney, Agent, or Firm—Mark M. Friedman

[75] Inventors: Eli Gozlan, Kiryat Motzkin; Shlomo Breznitz, Haifa; Dan Nir, Haifa; Sharon Erlich, Haifa, all of Israel

[57] ABSTRACT

Apparatus and method for monitoring and for improving the state of alertness of a subject while he continues to perform a primary task, driving a vehicle, operating machinery, etc. The apparatus includes stimulation apparatus for issuing stimuli to the subject and response apparatus for enabling the subject to reply to the stimuli. The stimuli can be audible, visual or tactile. Test results are processed and compared to baseline values taken when the subject is displaying a normal state of alertness. The rate of activation of the stimulation apparatus increases inversely with a deteriorating state of alertness of the subject to improve the state of alertness of the subject. The apparatus can be fashioned in a wide range of devices including a hand-held portable device, a wristwatch, a behind-the-ear (BTE) clip, a pair of spectacles, and for installation in a steering wheel.

[73] Assignee: Vigilant Ltd., Israel

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[58] Field of Search 434/236-238, 434/258

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9 Claims, 11 Drawing Sheets

