

Device for the Prevention of Sudden Infant Death Syndrome

[LAB0070]

Background

- Sudden Infant Death Syndrome (SIDS) affects approximately 2,500 children in the U.S. annually and over 19,000 deaths globally; however accurate data on SIDS deaths worldwide are lacking.
- Home apnea monitors that track infant respiratory and heart rates can be used to reduce the risk of SIDS.
- However, many environmental risk factors such as sleep position and bedding location significantly contribute to SIDS incidence but there are no devices to detect these types of risk factors.
- A device that detects both infant respiratory and heart rates and the environmental risk factors associated with SIDS can greatly reduce the incidence of infant death.

Innovation

- Dr. Ruey-Kang Chang has developed a small, wearable infant monitoring device that has a plurality of sensors that monitor heart rate, respiratory rate, carbon dioxide level, and other environmental risk factors such as sleep position and bedding location.
- Parents are alerted if any of the sensed factors changes via a wireless display.
- The small device is programmed with an algorithm that computes the SIDS risk level and informs parents if the current risk level is low, medium, high, or emergency.

Advantage

- Alerts parents of conditions that can cause SIDS and allows for ample intervention time
- Small, wearable, and wireless

Applications

- Prevention of infant death
- Allows parents to remotely monitor infants

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IP Status

- U.S. Patent No. 9,572,528 issued February 21, 2017

