Innovation and Commercialization

UNIVERSITY OF TEXAS ARLINGTON

Wireless CO_2 Monitor to Prevent Sudden Infant Death Syndrome (SIDS)

Tech ID: UTA 07-37

INVENTOR: Jung-Chih Chiao

TECHNOLOGY NEED

According to centers for Disease Control and Prevention, about 3500 babies die unexpectedly each year in the United States. Sudden Infant Death Syndrome (SIDS) and accidental suffocation while sleeping, are common causes of unexpected deaths. Current monitoring systems are invasive and cause discomfort to infants. Moreover, they are not highly effective. Thus, there is a need for developing a device which is comfortable and more effective in preventing SIDS.

INVENTION DESCRIPTION/SOLUTION

Present technology makes use of wireless CO_2 sensors placed in an array to detect changes in CO_2 concentration, this detection acts as an early warning to prevent SIDS. The data from sensors is used to activate an alarm. Integrated RFID's can be used for monitoring multiple infants simultaneous in the nursing room. This technique is highly effective in preventing SIDS and is comfortable as it uses noninvasive wireless sensors.

APPLICATIONS

- For preventing deaths caused by SIDS
- Health monitoring of patients with respiratory diseases
- In medical research
- In homecare equipment

KEY BENEFITS

- Wireless sensing
- Highly comfortable and effective
- Using integrated RFID's multiple patients can be monitored

STAGE OF DEVELOPMENT

Prototyped

INTELLECTUAL PROPERTY STATUS

Non-provisional (US7961093B2)

About the Inventors:
Jung-Chih Chiao

Contact information
For licensing, please contact
Jo Ramos, Ph.D.
(Licensing Associate)
j.ramos@uta.edu
innovation@uta.edu
P: 817.272.6269

Our mailing Address:
Innovation and Commercialization

701 S Nedderman drive,
Suite 350, Arlington, TX
76019

Connect with us: