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## Patent Search

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### Abstract:

MONITORING SYSTEM AND METHOD FOR NEONATE INCUBATOR ABSTRACT A monitoring system (100) for a neonate incubator (102) is disclosed. The monitoring system comprises an imaging unit (104) for capturing visuals of a baby, and distributed sensors (106) measuring various parameters such as temperature, harmful gases, Air Index (AQI), heat levels, and flame presence. A control unit (122), linked to the distributed sensors (106) and a computing device (124), receives, displays, and transmits measured parameters. The control unit (122) further analyzes the data, detecting deviations beyond safe values, and generates a warning notification (308) on the computing device (124) when unsafe conditions are identified, ensuring prompt intervention for enhanced neonatal care and safety. Claims: 10, Figures: 8 Figure 1A is selected.

Complete Specification

Description:BACKGROUND

Field of Invention

[001] Embodiments of the present invention generally relate to a monitoring system and particularly to a monitoring system for a neonate incubator.

Description of Related Art

[002] In field of neonatal care, providing optimal conditions for the well-being of premature or ill newborns is of paramount importance. These incubators provide a controlled environment to regulate temperature, humidity, and oxygen levels to ensure optimal conditions for the infants' development. Additionally, neonate incubators create a shield against infections, excessive noise, and light based on the sensitivity of newborns to external stimuli. This controlled environment not only promotes physical well-being but also contributes to the emotional and neurological stability of infants during their crucial early stages of life.

[003] Despite technical advancement, a current landscape of monitoring systems within these incubators faces limitations and leads to a demand for improved solutions. Particularly, when multiple neonate incubators are placed in a same vicinity, existing monitoring systems often lack seamless integration. This can lead to inefficiencies and delayed access to critical information for healthcare professionals. The disjointed nature of monitoring systems can hinder a comprehensive analysis of vital signs and environmental parameters. Thus, an ability to make informed decisions is compromised. This drawback can impede timely interventions and compromise an overall quality of neonatal care.

[004] There is thus a need for an improved and advanced monitoring system for a neonate incubator that can administer the aforementioned limitations in a more efficient manner.

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