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## Patent Search

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### Abstract:

INTERNET OF THINGS BASED AERATOR CONTROL SYSTEM AND METHOD THEREOF ABSTRACT An Internet of Things (IoT) based aerator control system (100) is disclosed to a user to control aerators (102a-102n) remotely. The system (100) firstly senses data such as, a temperature level; a level of oxygen; and a salinity level in a water body; compares the sensed data with corresponding pre-defined ranges. Based on the compared result, if at least one of, value of the data fluctuates from their pre-defined ranges, then the system (100) transmits a notification to a user device (114) using a communication unit (112) for enabling the user to control the aerators (102a-102n) remotely. Figures: 3 Figure 1 is selected.

### Complete Specification

Description:BACKGROUND

Field of Invention

[001] Embodiments of the present invention generally relate to a wireless aerator control system and particularly to an Internet of Things (IoT) based aerator control system.

Description of Related Art

[002] Aerators are devices that provide dissolved oxygen in bodies of water. It is employed in artificial breeding of aquatic animals. Most farmers in this sector of artificial aquatic animal production are unable to produce huge water bodies, therefore they employ small and crumbled water bodies to generate profit margins. As a result, aquatic creatures that are being farmed suffer from a lack of oxygen. To meet the oxygen demand, growers employ aerators to artificially produce dissolved oxygen in water bodies. Aerators operate by pulling air from the surrounding environment and introducing it into bodies of water for aquatic animal respiration.

[003] Moreover, controlling an artificially manufactured environment is a simpler task than artificially constructing and setting up the environment. Failure to provide dissolved oxygen in water bodies causes suffocation and death of aquatic species, causing substantial monetary losses for cultivators. To counteract this issue, farmers should assign someone to physically monitor the aquatic creatures 24 hours a day, seven days a week.

[004] However, physical presence is pointless since there is the possibility of a power outage or a gadget malfunction. Furthermore, in the absence of a backup system and supplementary equipment, the aquatic creatures suffocate and die in a shorter amount of time, resulting in significant financial loss to the farmers.

[005] There is thus a need for an improved and advanced Internet of Things (IoT) based aerator control system that can administer the aforementioned limitations.

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