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Patent Search

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Abstract:

A wireless aerator monitoring system (100), the system (100) comprising: current sensors (108) arranged with a main power supply line (106), and configured to sense a current supplied to aerators (102) through the main power supply line (106), wherein the sensed value of the current is based on a first pre-defined applied voltage; an unit (112) communicatively connected to the current sensors (108), and configured to: receive the sensed value of the current from the current sensors (108); compare of current with a pre-defined range stored in a memory; and generate a notification to be transmitted to a user device (116) using a communication unit (114), when the value of current fluctuates from the pre-defined range.

Complete Specification

Description:BACKGROUND

Field of Invention

[001] Embodiments of the present invention generally relate to an aerator monitoring system and particularly to a wireless aerator monitoring system.

Description of Related Art

[002] Aerators are devices used for providing dissolved oxygen in water bodies. It is used in artificial cultivation of aquatic animals. Mostly, in this business of artificial cultivation of aquatic animals, cultivators are not able to provide large water bodies, and to earn profit margins they use small and crumbled water bodies. By doing so, a condition of lack of oxygen arises among the aquatic animals. To fulfill the need for oxygen, the cultivators use aerators to provide dissolved oxygen artificially in the water bodies. Aerators work by sucking air from the environment and providing it into the water bodies for the respiration of the aquatic animals.

[003] Moreover, artificial construction and setup of the environment is an easier process as compared to controlling the artificially created environment. Cultivators tend to suffer huge monetary loss in case of failure of providing dissolved oxygen in the water bodies, as it leads to suffocation and death of aquatic animals. To combat this problem, cultivators designate an employee to physically monitor the aquatic animals 24 hours a day and 7 days a week.

[004] However, physical presence is futile as there are also scenarios of a power failure and device malfunction. Additionally, in case of no backup, supply and extra devices on hand, the aquatic animals suffocate and die in a shorter period leading to huge monetary loss to the cultivators.

[005] There is thus a need for a wireless aerator monitoring system that can overcome the shortcomings faced by traditional methods in a more efficient manner.

SUMMARY

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