

PENDING**(IN202311077583)**

A portable water incubator system for real time monitoring of aquatic eggs



NEED

Monitoring aquatic egg development is vital for environmental studies and aquaculture, but current methods are limited in portability and real-time data collection. A more efficient system is required.

TECHNOLOGY OVERVIEW

This patent discloses a portable automated system for monitoring aquatic egg development. It incorporates sensors for pH, salinity, and temperature, a high-resolution camera, and an image processing unit for real-time visual data analysis.

TECHNOLOGY KEY FEATURES

Portable, automated, real-time monitoring system; uses high-res cameras, sensors for pH, salinity, and temperature; aerator for water movement control; records time-lapse videos and images; data storage and transfer capabilities.

[Read more here](#)

MARKET ANALYSIS

The global market for aquaculture technology is projected to grow at a CAGR of 9.3%, reaching \$41 billion by 2033, driven by demand for sustainable and efficient practices in aquatic farming (source: Global Market Insights, 2023).

Target Industries

Aquaculture, environmental research, biotechnology. , Aquaculture monitoring systems, environmental research platforms, biotech R&D firms, and technology developers in water quality management and biological studies.

AT A GLANCE

- SDG 14 (Life Below Water), SDG 9 (Industry, Innovation, and Infrastructure), SDG 12 (Responsible Consumption and Production)

Technology is available for licensing/ co-development.

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