



A Corrosion Monitoring System with Innovative Cylindrical Sensors for Early-Stage Warning of Environmental Corrosion of Structures and Infrastructures

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Description of Technology

This corrosion monitoring system provides such capabilities as automatic data collection, processing and evaluation of the early-stage environmental corrosion which is very important to maintain the integrity and safety of the structures and systems that were built with such metal materials as carbon steel, aluminum, zinc and copper. Main modules and functionalities of this system include innovative micro-nano structure sol-gel and cylindrical corrosion sensors, analog signal processing circuitry, RS-485 and/or wireless sensor data acquisition modules, and cloud-based remote access and management functionalities.

Technology contact:

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(cylindrical corrosion sensor only)

Patent type : Provisional Patent Application

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Technology Features

Applicable industries:

City, County government; Water, gas and power utilities; Petroleum and chemical indus-

