

SYSTEM AND METHOD FOR MONITORING WETNESS LEVEL ON A RUNWAY IN AIRPORTS

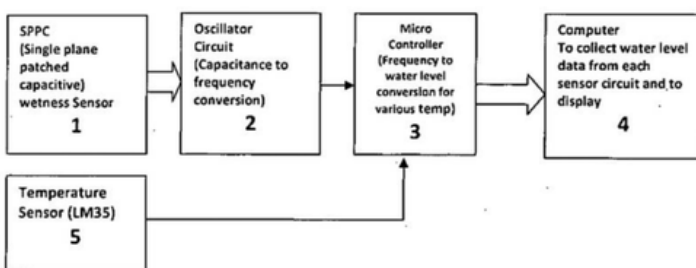
Seeking parties interested in licensing and commercialization of technology.

Technology Brief

This technology introduces an automated system and comprehensive method for monitoring real-time wetness levels and surface water film thickness on airport runways. By deploying an integrated network of precision surface sensors and data processing units along critical runway zones, the system continuously measures, evaluates, and logs accumulation depths caused by precipitation or drainage issues. This configuration equips airport operators and air traffic controllers with critical situational awareness to prevent hazardous phenomena like hydroplaning, ultimately optimizing aircraft landing and takeoff safety.

Block Diagram

FIG. 1 shows the complete setup for measuring water level



Technical Applications

The technology is primarily applied in commercial and military aviation airports to enhance airfield safety management and surface condition reporting. It is well-suited for integration with modern air traffic control towers, automated weather information systems, and Runway Condition Assessment Matrix (RCAM) reporting workflows.

Salient Features

- ✓ Real-Time Level Detection
- ✓ Automated Safety Alerts
- ✓ Data Logging and Diagnostics

Glimpse of the Technology



REFERENCE NUMBER

iTNT-TECH-0201



TECHNOLOGY SECTOR

Electronics & Semiconductors



IP STATUS

Patent Granted



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TECHNOLOGY READINESS LEVEL

TRL 3

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