

AUTOMATIC TEMPLE LAMP

Seeking parties interested in licensing and commercialization of technology.

Technology Brief

An Automatic temple lamp designed for continuous 24x7 lighting with minimal human intervention. The system integrates a traditional oil lamp with an oil container, wick bobbin, wick holder, and an automated control section. A microcontroller with a GSM module is integrated with ultrasonic sensors, infrared sensors, a float switch, an electro valve, DC motors, servo motors, a motor driver circuit, a motor speed regulator, and an LCD display. The ultrasonic sensor monitors the oil level in the main oil container and sends an alert to a registered mobile phone when the oil level falls below a threshold. The float switch monitors the oil level in the lamp bowl and automatically activates the electro valve to replenish oil. The infrared sensor detects reduced wick length and activates the DC motor to maintain the required wick length. A servo motor-operated blade periodically removes ash from the wick. The system also monitors component status and sends alerts upon malfunction.

Technical Applications

This technology enables automated, continuous 24x7 temple lamp operation through sensor-driven fuel, wick, and ash management. Designed for spiritual and religious spaces, it automates oil replenishment and wick maintenance while providing remote GSM alerts for seamless, hassle-free monitoring.

Salient Features

- ✓ Automated Fuel & Wick Management
- ✓ Automated Maintenance & Monitoring
- ✓ Protective Enclosure

Glimpse of the Technology



REFERENCE NUMBER

iTNT-TECH-0177



TECHNOLOGY SECTOR

Electronics & Semiconductors



IP STATUS

Patent Granted



APPLICATION NUMBER

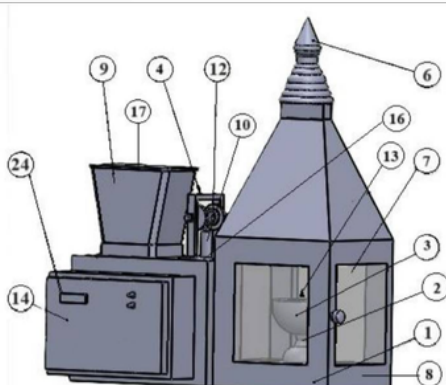
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TECHNOLOGY READINESS LEVEL

TRL - 4

Block Diagram



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