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(57) Abstract :
Disclosed herein is an intelligent LPG gas cylinder monitoring system (100) implementing comprehensive digital tracking capabilities. The system comprises a central processing unit (102), sensor array (104) for monitoring multiple parameters, digital display module (106) for real-time status indication, wireless communication module (108) for data transmission, predictive analytics engine (110) for usage forecasting, safety monitoring system (112) for hazard detection, mobile application interface (114) for remote monitoring, and data storage unit (116) for historical record maintenance. The method (200) includes real-time data collection (202), sensor data processing (204), pattern analysis (206), alert generation (208), interface updating (210), and safety monitoring (212), integrating modern technology with traditional gas cylinder systems for enhanced user safety and convenience.

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