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(57) Abstract :
The present invention introduces "A System to Monitor and Regulate Water Usage in Households," aimed at enhancing water conservation and efficiency within residential settings. This system employs innovative monitoring devices installed on household taps, equipped with sensors and display modules, to track water usage patterns. Central to the system is a centralized database where data on water usage, including flow rate and duration, is stored for analysis. Through real-time monitoring and analysis, the system generates alerts to promote responsible water usage practices. For instance, alerts are triggered for excessive water flow, prolonged usage without interruption, or irregular patterns in usage, prompting users to take corrective actions and conserve water. Furthermore, the system facilitates user engagement through a designated toll-free number, allowing users to report concerns or issues related to water usage. These reports trigger alerts for further action and resolution. The interconnected monitoring devices ensure synchronized alerts throughout the household, fostering awareness and encouraging conservation practices among household members. Periodic analysis of the stored data provides insights into household water consumption patterns, enabling informed decision-making and optimization of water usage.

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