

(54) Title of the invention : AUTOMATIC GAS LEAKAGE DETECTION AND SAFETY

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(57) Abstract :

ABSTARCT: The present invention is based on detecting Liquefied petroleum gas (LPG) leakage using electronic based sensor. Electronic based sensor gas leakage detector provides quick response to the gas leakage detection than the manual gas cut-off operating method during those critical situations. The sensor is designed in such a way that it will be able to detect even minute leakages. The sensor gives data about the leakage to the microcontroller on a real-time basis. In the event of leakage when the controller gets message that there is a leakage the system, the cut-off system is activated and the gas leakage is stopped at the source by the closing the valve of the cylinder or of the supply pipes by using a geared dc motor of required torque. The motor turn-off gas regulator and the gas supply is cut-off at the source. Further leakage of LPG is stopped and accidents in domestic household due to gas leakage and gas related fires can be avoided. The system does not require any human intervention and will be able to run completely on its own. This product is highly accurate and have good precision, which detects LPG leaks and turn-off gas regulator which will avoid gas leakage related accidents. A casing is provided for protecting the electronic circuit.

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