Safe Gas Regulator

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This is a device to protect lives and properties from the hazardous situations/accidents caused by unexpected gas leakages occur from the LP gas cylinders fixed to different types of burning instruments. The invention is a modified gas regulator which can be easily fixed to the gas cylinder. In the event of a gas leak, this apparatus identifies the leak and ejects the regulator from the gas cylinder automatically. At the same time, the leakage will be notified to the user in the same premises by making alarm. Further, the same notification will be made to the mobile phone of the user in any distance locations, through internet. This apparatus helps the user to observe the gas level available in the gas cylinder and in the same time he/she can regulate the device via mobile phone. This apparatus works by both AC and DC power. It is made out of metal but can be made in plastic. To develop this apparatus, hardware such as LP Gas indicator Sensor, Load Sensor, Arduino Development Board, Servo Motor, ordinary Gas regulator, 5V rechargeable Battery and soft wears such as Arduino platform, NOD mcu development board, IOT Technology and Blyink Graphic Developing Flat Form were used. The main purpose of developing this apparatus is to ensure human safety in using LP gas for different purposes.

Awards Won:

Third Award of $1,000