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<p>(51) International classification :C11D 030000, G01N 216100, G01N 330000, H01L 310304, H01L 311670</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Gopalakrishna. K Address of Applicant :Dr. Gopalakrishna. K Professor & Principal, Jyothy Institute of Technology Address: Tataguni, Kanakapura Road, Bengaluru-560082, Phone No : 9845730509 principal@jyothyit.ac.in -----</p> <p>2)Dr. K. V. Muralidhar Sharma Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. K. V. Muralidhar Sharma Address of Applicant :Dr. K. V. Muralidhar Sharma Associate Professor, Department of Mechanical Engineering, Jyothy Institute of Technology Address: Tataguni, Kanakapura Road, Bengaluru-560082, Phone No : +91 9449154928 Email ID : muralidhar.sharma@jyothyit.ac.in Bengaluru -----</p> <p>2)Dr. Gopalakrishna. K Address of Applicant :Dr. Gopalakrishna. K Professor & Principal, Jyothy Institute of Technology Address: Tataguni, Kanakapura Road, Bengaluru-560082, Phone No : +91 98457 30509 Email ID : principal@jyothyit.ac.in Bengaluru -----</p>
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(57) Abstract :

Reliability of any safety systems are the major concern for any manufacturer and the domestic appliances in general and the gas geysers are not an exception either. False alarms are the key concern in any sensor based safety design systems like the gas geysers. As reported by US department of fire protection engineering , the false alarms in aircraft cargoes are a matter of severe concern. With more than 200 false alarms annually , the rate of false alarms being as alarming as 99% and the cost of each alarm /false alarm being as high as 30-50 thousand dollars/incidence . The USP of the invention is the custom designed gas geyser protection system exclusively from the perspective of an Indian consumer that has high reliability. Majority of Indian gas geyser consumers have the typical congested/ low ventilation bathrooms and most of the gas geyser related accidents are largely under reported/unreported. Though there are a number of gas geyser safety systems designed & developed across the globe, the reliability of most of them is still a critical issue. The design of this gas geyser protection system addresses the reliability issue vis-a-vis ensuring a custom built design & development for the typical congested/ low ventilated bathrooms.

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