Abstract

METHOD FOR DETECTION OF A LEAK FROM A SEALED, THERMALLY INSULATING TANK

The invention relates to a method for detection of a leak from a tank for liquid gas, said tank comprising a membrane surrounding the liquid gas, the membrane being surrounded by an insulation space which separates the membrane from a wall, the insulation space being filled an inert gas which is injected and extracted by at least one duct. The detection method comprises the following steps:

- determining 921 a first variation of mass of inert gas ΔM1 between two moments by measuring the gas added and removed by the duct;
- calculating 922 a second variation of mass of inert gas ΔM2 corresponding to a difference between two masses of inert gas measured in the insulation space; and
- comparing 931 the first variation with the second variation, and triggering an alarm if a difference E1 between the first variation and the second variation of mass of inert gas is greater than a first threshold S1.

Figure to be published: Figure 9