

DEVICE AND METHOD FOR COOLING A LIQUEFIED GAS**ABSTRACT**

The invention relates to a vaporization device (4) for cooling a liquefied gas, said vaporization device (1) comprising:

- a vaporization chamber (14) arranged in the interior space of a container (2, 19) intended to be filled with liquefied gas (3), the vaporization chamber (14) comprising heat exchange walls (6) allowing an exchange of heat between an interior space of the vaporization chamber (14) and a liquefied gas (3) present in the interior space of the container (2, 19);
- an inlet circuit (5) comprising an intake emerging in the interior space of the container (2, 19) for withdrawing a flow of liquefied gas in liquid phase from the container (2, 19) and a head loss member (13) emerging in the interior space of the vaporization chamber (14) in order to expand the withdrawn gas flow;
- an outlet circuit (7) arranged to evacuate the withdrawn gas flow, in gaseous phase from the vaporization chamber (14) to a vapor phase gas usage circuit (8); said outlet circuit (7) comprising a vacuum pump (9) capable of sucking the gas flow into the vaporization chamber (14), of discharging it to the vapor phase gas usage circuit (8) and of maintaining an absolute pressure lower than atmospheric pressure in the vaporization chamber (14).

Figure to be published: 1