Title (en)

COMPENSATION SYSTEM FOR A CRYOGENIC TANK FOR THE CONTAINMENT OF LIQUID HYDROGEN

Title (de)

AUSGLEICHSSYSTEM FÜR EINEN KRYOGENEN BEHÄLTER ZUR AUFNAHME VON FLÜSSIGEM WASSERSTOFF

Title (fr)

SYSTÈME DE COMPENSATION POUR RÉSERVOIR CRYOGÉNIQUE DESTINÉ AU CONFINEMENT D'HYDROGÈNE LIQUIDE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2023007300A1] It is an object of the invention to provide a compensation system (100) for a cryogenic tank (1), wherein said cryogenic tank (1) is suitable for containing liquid hydrogen and wherein from said cryogenic tank (1) is derived a supply line (20, 30) of gaseous hydrogen to a fuel cell (11), said system (100) further comprising an electronic control unit (200) and wherein on said supply line (20, 30) is placed at least one regulating valve (7) of the flow of gaseous hydrogen exiting said cryogenic tank (1) and managed by said electronic control unit (200). Said compensation system (100) further comprises a compensation tank (9) placed on said supply line (20, 30) of hydrogen gas to said fuel cell (11), said compensation tank (9) being configured to recover the hydrogen gasification induced by the transmittance of the main tank (1).

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