

Title (en)
SYSTEM BASED ON INDUCTION ENERGY FOR LIQUID HYDROGEN EVAPORATING AND HEATING INTO GAS HYDROGEN

Title (de)
SYSTEM BASIEREND AUF INDUKTIONSENERGIE ZUR VERDAMPFUNG UND ERWÄRMUNG VON FLÜSSIGEM WASSERSTOFF IN GASFÖRMIGEN WASSERSTOFF

Title (fr)
SYSTÈME BASÉ SUR L'ÉNERGIE D'INDUCTION POUR L'ÉVAPORATION ET LE CHAUFFAGE DE L'HYDROGÈNE LIQUIDE EN HYDROGÈNE GAZEUX

Publication
EP 4275775 A1 20231115 (EN)

Application
EP 22382462 A 20220512

Priority
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Abstract (en)
System based on induction energy for liquid hydrogen evaporating and heating into gas hydrogen, comprising a module (1) with an inlet (2) for liquid hydrogen and an outlet (3) for gas hydrogen, the inlet (2) and the outlet (3) being joined by a hydrogen pipe (4) that crosses the module (1), in which the induction energy is provided by an induction power supply unit (5), that additionally comprises a heat station (6) that provides heat to the hydrogen pipe (4) through a heat exchanger (7) and provides energy to the induction power supply unit (5), the liquid hydrogen being the cooling fluid for the heat station (6), such that the induction power supply unit (5) provides induction energy to the hydrogen pipe (4) to heat the liquid hydrogen into gas hydrogen.

IPC 8 full level
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Citation (applicant)
US 2007193717 A1 20070823 - TURINI JUERGEN [DE], et al

Citation (search report)
• [X] US 2018180367 A1 20180628 - FOLK ROBERT [CA], et al
• [A] US 2018128211 A1 20180510 - PEREZ ALBERTO MARTIN [US]
• [A] US 2012118878 A1 20120517 - KIM SEONG KYUN [KR], et al

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