

Title (en)  
METHOD AND SYSTEM FOR PRESSURISING GASEOUS HYDROGEN

Title (de)  
VERFAHREN UND SYSTEM ZUR DRUCKBEAUFSCHLAGUNG VON GASFÖRMIGEM WASSERSTOFF

Title (fr)  
PROCEDE ET SYSTEME DE PRESSURISATION D'HYDROGENE GAZEUX

Publication  
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Application  
**EP 22735552 A 20220608**

Priority  
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Abstract (en)  
[origin: WO2022258925A1] The invention relates to a method for pressurising gaseous hydrogen comprising the following steps: providing a first tank (1) capable of receiving pressurised gaseous hydrogen, filling the first tank (1) with compressed gaseous hydrogen at a first pressure, cooling the compressed gaseous hydrogen contained in the first tank (1) to a first cryogenic temperature, transferring, by means of pressure equalisation, one portion of the gaseous hydrogen at the first cryogenic temperature from the first tank (1) to at least one second tank (2), sealing the at least one second tank containing the hydrogen transferred from the first tank, increasing the pressure in the second tank by heating the hydrogen present in the second tank to a second temperature higher than the first temperature.

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