

Title (en)
PROCESS FOR LIQUEFYING HYDROGEN

Title (de)
VERFAHREN ZUM VERFLÜSSIGEN VON WASSERSTOFF

Title (fr)
PROCÉDÉ DE LIQUÉFACTION D'HYDROGÈNE

Publication
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Application
EP 07725781 A 20070601

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• EP 2007004902 W 20070601
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Abstract (en)
[origin: CA2655037A1] The invention relates to a process for liquefying hydrogen. To reduce the specific energy consumption, the following process steps are used: a) the precooling of the hydrogen stream by indirect heat exchange against a pressurized LNG stream to a temperature of between 140 and 130 K, b) the precooling of the hydrogen stream by indirect heat exchange against a coolant to a temperature of between 85 and 75 K, c) where the precooling of the coolant takes place against a pressurized LNG stream, and d) the cooling and at least partial liquefaction of the pre-cooled hydrogen stream takes place by indirect heat exchange against another hydrogen stream channeled through a closed cooling circuit, e) where the precooling of the condensed hydrogen stream, which is channeled through a closed cooling circuit, takes place against a pressurized LNG stream.

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Citation (search report)
See references of WO 2007144078A2

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