

Title (en)

COOLING METHOD FOR LIQUEFYING A FEED GAS

Title (de)

KÜHLVERFAHREN ZUR VERFLÜSSIGUNG EINES EINSATZGASES

Title (fr)

PROCÉDÉ DE REFOUILLISSEMENT PERMETTANT DE LIQUÉFIER UN GAZ D'ALIMENTATION

Publication

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Application

EP 20701394 A 20200114

Priority

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Abstract (en)

[origin: WO2020156754A1] The present invention pertains to a cooling method for liquefying a feed gas, comprising the steps of providing a cooling cycle (20) with a refrigerant stream (28); dividing the refrigerant stream (28) into a first partial stream (32) and a second partial stream (36); expanding the first partial stream (32) in a first expansion device (40); and transferring cooling energy from the expanded first partial stream (42) to a feed gas stream (12) to be cooled, particularly comprising hydrogen and/or helium. Further the method comprises the steps of guiding the expanded first partial stream (42) to a suction inlet of an ejector (48); and guiding the second partial stream (36) to a propellant inlet of the ejector (48) such that, upon expanding the second partial stream (36) in the ejector (48), the expanded first partial stream (42) is compressed and merged with the expanded second partial stream.

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