

Title (en)

Process and installation for the liquefaction of a gas.

Title (de)

Verfahren und Anlage für die Verflüssigung eines Gases.

Title (fr)

Procédé et installation de liquéfaction d'un gaz.

Publication

EP 0058106 A2 19820818 (FR)

Application

EP 82400099 A 19820120

Priority

FR 8102202 A 19810205

Abstract (en)

[origin: US4486210A] Method and apparatus for liquefying a gas such as natural gas, utilizing at least one cycle fluid comprising a refrigerating mixture, with at least one first principal cycle fluid under a low pressure in countercurrent heat exchange with the gas which is to be liquefied and with at least one second principal cycle fluid under a high pressure. At least one secondary cycle fluid is obtained by withdrawing a portion in liquid phase from the refrigerating mixture at the high pressure and is expanded to the low pressure and is then added to the first principal cycle fluid. The heat exchange takes place in at least one heat exchanger comprising a stack of plates which form uninterrupted longitudinal compartments forming passages for the first principal cycle fluid under a low pressure, these compartments extending from the cold end of the exchanger, and a plurality of longitudinal compartments forming passages for at least one of the second principal cycle fluid and the fluid to be liquefied, these latter compartments extending to the cold end of the exchanger. The addition of the secondary fluid to the first principal fluid takes place in a distributed manner into each low pressure compartment in at least one transverse volume extending along the thickness of the exchanger, this volume being located at heat exchange distance from the inlets and outlets of the compartments forming passages for the first principal fluid under low pressure.

Abstract (fr)

L'invention concerne un procédé de liquéfaction d'un gaz. Dans un échangeur unique du type à plaques brasées, avec des passages (23, 25, 27, 29, 31) pour un fluide de cycle basse pression (7), des passages (23, 28) pour le fluide de cycle haute pression (5) et des passages (26, 30) pour le gaz à liquéfier, on prévoit ces moyens d'adjonction (63) de fluides de cycle secondaires (8) et (10). Application notamment à la liquéfaction du gaz naturel.

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IPC 8 full level

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