

Title (en)

GAS COOLING PROCESS AND PLANT, ESPECIALLY FOR NATURAL GAS LIQUEFACTION

Title (de)

VERFAHREN UND ANLAGE ZUR KÜHLUNG EINES FLUIDS, INSBESONDERE FÜR DIE VERFLÜSSIGUNG VON ERDGAS

Title (fr)

PROCEDE ET INSTALLATION DE REFROIDISSEMENT D'UN GAZ, NOTAMMENT POUR LA LIQUEFACTION DE GAZ NATUREL

Publication

**EP 0644996 B1 19981223 (FR)**

Application

**EP 94913137 A 19940405**

Priority

- FR 9400380 W 19940405
- FR 9304276 A 19930409

Abstract (en)

[origin: WO9424500A1] In an integral incorporated cascade-type process the cooling mixture from the penultimate stage (1B) of the single cycle compressor (1) is fed into a distillation apparatus (5), the overhead vapour of which is cooled (at 24) to a temperature considerably less than ambient temperature. The vapour is then separated into two phases (at 6C); the vapour phase supplies the last stage (1C) of the compressor, and the liquid phase provides a cooling fluid for the hot part (8) of the thermal exchange line (7).

IPC 1-7

**F25J 1/02**; **F25J 3/06**

IPC 8 full level

**C10L 3/00** (2006.01); **C10L 3/06** (2006.01); **C10L 3/12** (2006.01); **C10L 10/14** (2006.01); **F25J 1/02** (2006.01); **F25J 3/02** (2006.01); **F25J 3/06** (2006.01)

CPC (source: EP US)

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US10480851B2; US11408673B2; US11428463B2; US10663221B2; US11408676B2; US9441877B2; US10502483B2

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**WO 9424500 A1 19941027**; AT E175019 T1 19990115; AU 6540494 A 19941108; AU 669628 B2 19960613; CA 2136755 A1 19941027; CA 2136755 C 20050614; DE 69415454 D1 19990204; DE 69415454 T2 19990506; DZ 1768 A1 20020217; EP 0644996 A1 19950329; EP 0644996 B1 19981223; ES 2125448 T3 19990301; FR 2703762 A1 19941014; FR 2703762 B1 19950524; HK 1012700 A1 19990806; JP 3559283 B2 20040825; JP H07507864 A 19950831; NO 308969 B1 20001120; NO 944701 D0 19941206; NO 944701 L 19941206; RU 2121637 C1 19981110; RU 94046343 A 19961110; US 5535594 A 19960716; US 5613373 A 19970325

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