Title (en)

THERMODYNAMIC PROCESS APPROXIMATING THE ERICSSON CYCLE

Publication

EP 0134431 B1 19911016 (DE)

Application

EP 84106748 A 19840613

Priority

ES 523210 A 19830613

Abstract (en)

[origin: ES8605328A1] The thermo-dynamic process approximates to the Carnot cycle, for converting heat into work. The process operates between a heat source and a heat sink which are at a sufficiently wide temp. difference. A group of substances are used as the working fluid and possess sufficient thermal stability within the temp. range of the process and with a freezing point below the energy sink temp. - When in the liquid phase, the substances may or may not be mixable and each substance has a different vapour pressure at the working temp. The saturation pressure of the least volatile substance, at the temp. of the energy source, when at its minimum, is higher than the saturation pressure of the volatile components at the temp. of the energy sink.
[origin: ES8605328A1] The thermo-dynamic process approximates to the Carnot cycle, for converting heat into work. The process operates between a heat source and a heat sink which are at a sufficiently wide temp. difference. A group of substances are used as the working fluid and possess sufficient thermal stability within the temp. range of the process and with a freezing point below the energy sink temp. - When in the liquid phase, the substances may or may not be mixable and each substance has a different vapour pressure at the working temp. The saturation pressure of the least volatile substance, at the temp. of the energy source, when at its minimum, is higher than the saturation pressure of the volatile components at the temp. of the energy sink.

IPC 1-7

F01K 25/06

IPC 8 full level

F01K 21/00 (2006.01); **F01K 25/06** (2006.01); **F03G 7/06** (2006.01)

CPC (source: EP US)

F01K 25/06 (2013.01 - EP US); F02G 2250/09 (2013.01 - EP US)

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Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0134431 A2 19850320; **EP 0134431 A3 19851127**; **EP 0134431 B1 19911016**; AT E68558 T1 19911115; CA 1241845 A 19880913; DE 3485169 D1 19911121; ES 523210 A0 19860401; ES 8605328 A1 19860401; IL 72045 A0 19841031; IL 72045 A 19930114; JP S6062608 A 19850410; US 4691523 A 19870908

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EP 84106748 A 19840613; AT 84106748 T 19840613; CA 456293 A 19840611; DE 3485169 T 19840613; ES 523210 A 19830613; IL 7204584 A 19840607; JP 12290184 A 19840613; US 62036484 A 19840613