

Title (en)

RANKINE CYCLE SYSTEM

Title (de)

CLAUSIUS-RANKINE-KREISLAUFSYSTEM

Title (fr)

SYSTEME A CYCLE DE RANKINE

Publication

EP 1536105 A4 20051123 (EN)

Application

EP 03771275 A 20030722

Priority

- JP 0309222 W 20030722
- JP 2002216425 A 20020725

Abstract (en)

[origin: EP1536105A1] A Rankine cycle system is provided in which, in order to make a pressure (P) of a gas-phase working medium at the inlet of an expander (13) coincide with a target pressure (Po), a feedforward value (NFF) is calculated on the basis of the target pressure (Po) and a flow rate (Q) of the gas-phase working medium at the outlet of an evaporator (12), a feedback value (NFB) is calculated by multiplying a deviation (ΔP) of the pressure (P) of the gas-phase working medium at the inlet of the expander (13) from the target pressure (Po) by a feedback gain (kp) calculated on the basis of the flow rate (Q) of the gas-phase working medium, and the rotational speed of the expander (13) is controlled on the basis of the result of addition/subtraction of the feedforward value (NFF) and the feedback value (NFB). It is thereby possible to control the pressure of the gas-phase working medium at the inlet of the expander at the target pressure with high precision without changing the amount of liquid-phase working medium supplied to the evaporator. <IMAGE>

IPC 1-7

F01K 23/10; F02G 5/02

IPC 8 full level

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CPC (source: EP US)

F01K 13/02 (2013.01 - EP US); **F01K 23/065** (2013.01 - EP US); **F01K 23/101** (2013.01 - EP US)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2004011777A1

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DE GB

DOCDB simple family (publication)

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