

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 ( DELTA P) 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  
**F01D 17/24** (2006.01); **F01B 25/02** (2006.01); **F01K 13/02** (2006.01); **F01K 23/06** (2006.01); **F01K 23/10** (2006.01); **F02G 1/05** (2006.01); **F22B 1/18** (2006.01)

CPC (source: EP US)  
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Citation (search report)  
• No further relevant documents disclosed  
• See references of WO 2004011777A1

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