

Title (en)

MODEL-BASED MONITORING OF THE OPERATIONAL STATE OF AN EXPANSION MACHINE

Title (de)

MODELLBASIERTE ÜBERWACHUNG DES BETRIEBSZUSTANDES EINER EXPANSIONSMASCHINE

Title (fr)

SURVEILLANCE SUR LA BASE DE MODÈLE DE L'ÉTAT DE FONCTIONNEMENT D'UNE MACHINE À DÉTENTE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2018166642A1] The invention relates to a method for controlling a thermodynamic cycle process apparatus, in particular an ORC apparatus, wherein the thermodynamic cycle process apparatus comprises an evaporator, an expansion machine, a condenser and a feed pump, and the expansion machine is coupled to an external apparatus in normal operation, and wherein the method comprises the following steps: measuring an exhaust steam pressure downstream of the expansion machine; and setting a volume flow of the feed pump in accordance with a computer-implemented control model of the thermodynamic cycle process apparatus according to the measured exhaust steam pressure and a target rotational speed of the expansion machine as input variables of the control model and with the volume flow of the feed pump as an output variable of the control model. The invention further relates to a corresponding thermodynamic cycle process apparatus.

IPC 8 full level

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