

Title (en)

SYSTEM FOR COOLING A PROCESS FLUID FROM A HEAT PRODUCING INSTALLATION

Title (de)

SYSTEM ZUM KÜHLEN EINES PROZESSFLUIDS EINER WÄRMEERZEUGENDEN EINRICHTUNG

Title (fr)

SYSTÈME DE REFROIDISSEMENT POUR UN FLUIDE PROVENANT D'UNE INSTALLATION PRODUISANT DE LA CHALEUR

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2019038022A1] The invention relates to a system for cooling a process fluid of a heat-producing apparatus, comprising: an outlet of the heat-producing apparatus, the outlet being providing for discharging process fluid to be cooled from the heat-producing apparatus; an inlet of the heat-producing apparatus, the inlet being provided for supplying cooled process fluid to the heat-producing apparatus; and a thermodynamic cycle device, in particular an ORC device, the thermodynamic cycle device comprising: an evaporator having an inlet for supplying the process fluid to be cooled from the outlet of the heat-producing apparatus and having an outlet for discharging the cooled process fluid to the inlet of the heat-producing apparatus, the evaporator being designed to evaporate a working medium of the thermodynamic cycle device by means of heat from the process fluid; an expansion machine for expanding the evaporated working medium and for producing mechanical and/or electrical energy; a condenser for condensing the expanded working medium, in particular an air-cooled condenser; and a pump for pumping the condensed working medium to the evaporator.

IPC 8 full level

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CPC (source: EP US)

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Citation (examination)

- JP 2004098951 A 20040402 - CALSONIC KANSEI CORP
- EP 1925806 A2 20080528 - BEHR GMBH & CO KG [DE]
- JP 2009167995 A 20090730 - SANDEN CORP

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