

Title (en)

DIRECT HEAT EXCHANGER FOR ORGANIC RANKINE CYCLE SYSTEMS

Title (de)

DIREKTER WÄRMETAUSCHER FÜR ORGANISCHE RANKINE-KREISLAUF-SYSTEME

Title (fr)

ÉCHANGEUR DE CHALEUR DIRECT POUR SYSTÈMES À CYCLE DE RANKINE À FLUIDE ORGANIQUE

Publication

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Application

EP 17711334 A 20170222

Priority

- IT UB20160984 A 20160225
- IB 2017050993 W 20170222

Abstract (en)

[origin: WO2017145057A1] Heat exchanger (100) to direct exchange between hot gases of a hot source and a working fluid of an Organic Rankine Cycle system, comprising at least two tube bundles (200, 201) having a plurality of tubes (106) inside them the working fluid flows, an inlet manifold (103) from which the working fluid enters and an outlet manifold (105) from which the working fluid in a vapor phase comes out, said heat exchanger (100) also comprising: a first portion (102) crossed downward along the vertical direction of the heat exchanger (100) by the hot gases a second portion (101) crossed upward along the vertical direction of the heat exchanger (100) by the hot gases coming from the portion (102), an intermediate manifold (104) positioned between a last row of tubes (110) of the second portion (101) and a first row of tubes (111) of the first portion (102).

IPC 8 full level

F01K 25/08 (2006.01); **F22B 15/00** (2006.01); **F22B 21/02** (2006.01); **F22B 21/40** (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 2017145057A1

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Designated extension state (EPC)

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