

Title (en)

An improved organic rankine cycle system and method

Title (de)

Verbesserter organischer Rankine-Prozess und -Verfahren

Title (fr)

Système et procédé de cycle de Rankine organique amélioré

Publication

EP 2423473 B1 20191030 (EN)

Application

EP 10161925 A 20100504

Priority

US 43627709 A 20090506

Abstract (en)

[origin: US2010281864A1] An ORC system configured to limit temperature of a working fluid below a threshold temperature is provided. The ORC system includes a heat source configured to provide waste heat fluid. The ORC system also includes a heat exchanger coupled to the heat source, wherein the heat exchanger includes multiple external or internal enhancement features. The external enhancement features are configured to reduce a first heat transfer coefficient between the working fluid and the waste heat fluid from the heat source, external to the heat exchanger. The internal enhancement features are configured to increase a second heat transfer coefficient between the working fluid and the waste heat fluid from a heat source, internal to the heat exchanger.

IPC 8 full level

F01K 23/10 (2006.01); **F01K 25/08** (2006.01); **F01K 25/10** (2006.01)

CPC (source: EP US)

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DOCDB simple family (publication)

US 2010281864 A1 20101111; BR PI1001549 A2 20120124; BR PI1001549 B1 20200707; BR PI1001549 B8 20200728; CA 2701284 A1 20101106; CA 2701284 C 20170704; CN 101881192 A 20101110; CN 101881192 B 20150805; EP 2423473 A2 20120229; EP 2423473 A3 20140108; EP 2423473 B1 20191030; MX 2010004845 A 20101118

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