

Title (en)

WASTE HEAT RECOVERY AND CONVERSION SYSTEM AND RELATED HEAT EXCHANGER

Title (de)

ABWÄRMERÜCKFÜHRUNGS- UND UMWANDLUNGSSYSTEM UND DAZUGEHÖRIGER WÄRMETAUSCHER

Title (fr)

SYSTÈME DE RÉCUPÉRATION ET DE CONVERSION DE CHALEUR PERDUE ET ÉCHANGEUR DE CHALEUR APPARENTÉ

Publication

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Application

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Abstract (en)

[origin: WO2013019761A1] Various embodiments of a waste heat recovery and conversion system are disclosed. In one exemplary embodiment, the waste heat recovery system may include a heat exchanger for transferring heat from a first fluid to a second fluid and a power conversion unit configured to convert the energy transferred from the first fluid to the second fluid into usable energy. The heat exchanger may include an outer duct defining an inlet and an outlet through which the first fluid flows in and out, respectively, of the outer duct. The heat exchanger may also include an inner duct disposed inside the outer duct and defining an inner channel inside the inner duct and an outer channel between an outer surface of the inner duct and an inner surface of the outer duct. The inner duct may define an internal flow channel through which the second fluid flows to exchange heat energy with the first fluid.

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