

Title (en)

Conversion system for converting waste heat to shaft power

Title (de)

Umwandlungssystem zum Umwandeln der Abwärme auf die Schafteleistung

Title (fr)

Système de conversion pour convertir une chaleur de déchets en puissance d'arbre

Publication

**EP 2378089 A1 20111019 (EN)**

Application

**EP 10159727 A 20100413**

Priority

EP 10159727 A 20100413

Abstract (en)

The present invention relates to the conversion of industrial waste heat, and particularly to a conversion system (30) for converting waste heat from an industrial waste heat source (7) to shaft power. A conversion system (30) for converting waste heat from an industrial waste heat source (7) to shaft power is provided, the conversion system (30) having a closed Organic Rankine Cycle (ORC) system (16), comprising an evaporator (1) for evaporating an ORC working fluid and heated by the waste heat, a turbine (2) driven by the evaporated ORC working fluid and connected to a shaft (3), and a condenser (5), fluidly interconnected between the turbine (2) and the evaporator (1), wherein the ORC working fluid is organic, non-toxic, and non-fluorinated.

IPC 8 full level

**F01K 25/14** (2006.01); **F01K 23/06** (2006.01)

CPC (source: EP)

**F01K 25/14** (2013.01)

Citation (applicant)

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Citation (search report)

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