

Title (en)  
EFFICIENT CONVERSION OF HEAT TO USEFUL ENERGY

Title (de)  
EFFIZIENTE UMWANDLUNG VON WÄRME IN NUTZENERGIE

Title (fr)  
CONVERSION DE CHALEUR EN ENERGIE UTILE

Publication  
**EP 1769138 A4 20120815 (EN)**

Application  
**EP 05771499 A 20050714**

Priority  

- US 2005025033 W 20050714
- AU 2004903961 A 20040719
- AU 2005203045 A 20050713

Abstract (en)  
[origin: WO2006019937A1] A heat transfer system includes a power sub-system configured to receive a heat source stream, and one or more heat exchangers configured to transfer heat from the heat source stream to a working stream. The working stream is ultimately heated to a point where it can be passed through one or more turbines, to generate power, while the heat source stream is, cooled to a low temperature tail. A distillation condensation sub-system cools the spent stream to generate an intermediate stream and a working stream. The working stream can be variably heated by the intermediate stream so that it is at a sufficient temperature to make efficient use of the low temperature tail. The working stream is then heated by the low temperature tail, and subsequently passed on for use in the power sub-system.

IPC 8 full level  
**F01K 25/06** (2006.01)

CPC (source: EP)  
**F01K 25/065** (2013.01)

Citation (search report)  

- [X] EP 0193184 A1 19860903 - KALINA ALEXANDER IFAEVICH
- [X] US 5950433 A 19990914 - KALINA ALEXANDER I [US]
- See references of WO 2006019937A1

Designated contracting state (EPC)  
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**WO 2006019937 A1 20060223**; AU 2005203045 A1 20060202; CA 2570654 A1 20060223; CA 2570654 C 20101109; EP 1769138 A1 20070404; EP 1769138 A4 20120815; JP 2008506893 A 20080306; JP 4598071 B2 20101215; MX 2007000879 A 20081024; NZ 552273 A 20091224; TR 200700203 T2 20070321

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**US 2005025033 W 20050714**; AU 2005203045 A 20050713; CA 2570654 A 20050714; EP 05771499 A 20050714; JP 2007522576 A 20050714; MX 2007000879 A 20050714; NZ 55227305 A 20050714; TR 200700203 T 20050714