

Title (en)

Apparatus for generating electric energy using high temperature fumes

Title (de)

Vorrichtung zur Erzeugung von elektrischer Energie unter Verwendung von Hochtemperaturgasen

Title (fr)

Appareil pour la production d'énergie électrique à l'aide de fumées à haute température

Publication

EP 1998013 A2 20081203 (EN)

Application

EP 07425218 A 20070416

Priority

EP 07425218 A 20070416

Abstract (en)

This invention concerns an apparatus for the production of electric energy by a turbine operating according to the Rankine cycle using an organic work fluid made to evaporate through a heat exchange with a source of heat. In the work fluid circuit, upstream of the main turbine, an additional electric generator is inserted having a rotation speed aimed at optimising the extraction of power from a pre-expansion of the work fluid.

IPC 8 full level

F01K 7/02 (2006.01); **F01K 25/08** (2006.01)

CPC (source: EP)

F01K 7/025 (2013.01); **F01K 25/10** (2013.01)

Citation (applicant)

- WO 2004102082 A2 20041125 - AMP CAPITAL PARTNERS [US]
- WO 2008101711 A2 20080828 - EN HOLDING GMBH DEUTSCHE [DE], et al

Cited by

CN103195530A; ITBS20090224A1; DE102010048292A1; US2013160448A1; US9016063B2; CN114542226A; DE102012021326A1; DE102012021326B4; CN105247174A; US9284855B2; US11187112B2; US9638065B2; US9587520B2; US9593597B2; WO2011093854A1; WO2016032737A1; WO2014117074A1; US10934895B2; US11293309B2; US11435120B2; US9752460B2; US9863282B2; US11629638B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1998013 A2 20081203; EP 1998013 A3 20090506

DOCDB simple family (application)

EP 07425218 A 20070416