

Title (en)

Fluid-energy-machine, method to operate

Title (de)

Strömungsenergiemaschine, Betriebsverfahren

Title (fr)

Machine à énergie fluide, procédé pour fonctionner

Publication

EP 2853749 A1 20150401 (EN)

Application

EP 13185932 A 20130925

Priority

EP 13185932 A 20130925

Abstract (en)

The invention relates to a fluid-energy-machine (FEM) comprising at least one first rotor (R) contacting a process fluid (PF) to exchange kinetic energy between said process fluid (PF) and said first rotor (R), further comprising an electric motor drive (ED) driving the first rotor (R), further comprising a shaft seal (SHS), sealing to the first rotor (R) comprising a seal fluid supply (SFS) upstream said shaft seal (SHS) and a seal fluid exhaust (SFE) downstream said shaft seal (SHS). To improve efficiency and simplify design it is proposed that said seal fluid exhaust (SFE) conducts said seal fluid (SF) to a cooling system (CS) of said electric motor drive (ED) to cool the electric motor drive (ED).

IPC 8 full level

F04D 25/06 (2006.01); **F04D 29/10** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP)

F04D 25/0606 (2013.01); **F04D 29/104** (2013.01); **F04D 29/5806** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2853749 A1 20150401; WO 2015043877 A1 20150402

DOCDB simple family (application)

EP 13185932 A 20130925; EP 2014068365 W 20140829