

Title (en)

Method for monitoring an energy conversion device

Title (de)

Verfahren zur Überwachung einer Energieumwandlungseinrichtung

Title (fr)

Procédé de surveillance d'un dispositif de transformation d'énergie

Publication

EP 2039939 B2 20201118 (DE)

Application

EP 07018530 A 20070920

Priority

EP 07018530 A 20070920

Abstract (en)

[origin: EP2039939A1] The method involves detecting or calculating performance-based sizes of a functional unit automatically in time intervals. The performance-based sizes of a functional unit are compared with each other or with pre-set values. A corresponding signal is generated depending on the comparison. The energy conversion device consists of multiple functionally interrelated functional units. Independent claims are included for the following: (1) a rotary pump aggregate with an electric motor and a driven rotary pump; (2) a compressor aggregate with an electric motor and a driven displacement pump; (3) a cooling aggregate with an electric motor and a driven displacement pump; and (4) a heating system with a burner and one of the heated water circulations.

IPC 8 full level

F04D 15/00 (2006.01)

CPC (source: EP US)

F04B 51/00 (2013.01 - EP US); **F04D 15/0088** (2013.01 - EP US); **F04D 27/001** (2013.01 - EP US); **F05D 2260/80** (2013.01 - EP US); **F05D 2270/335** (2013.01 - EP US)

Citation (opposition)

Opponent :

- EP 1171714 B1 20050316 - ITT MFG ENTPR [US]
- US 4584654 A 19860422 - CRANE HAROLD E [US]
- US 6260004 B1 20010710 - HAYS COY L [US], et al
- US 2003133808 A1 20030717 - SABINI EUGENE P [US], et al

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 2039939 A1 20090325; **EP 2039939 B1 20170809**; **EP 2039939 B2 20201118**; CN 101802413 A 20100811; CN 101802413 B 20140730; JP 2010539380 A 20101216; JP 5439378 B2 20140312; US 2010300220 A1 20101202; WO 2009039934 A1 20090402

DOCDB simple family (application)

EP 07018530 A 20070920; CN 200880108089 A 20080828; EP 2008007041 W 20080828; JP 2010525224 A 20080828; US 67905408 A 20080828