

Title (en)

Method and device for detecting the hydraulic state of a heating system

Title (de)

Verfahren und Vorrichtung zur Detektion des hydraulischen Zustands einer Heizungsanlage

Title (fr)

Procédé et dispositif destinés à la détection de l'état hydraulique d'une installation de chauffage

Publication

EP 1936290 A3 20130123 (DE)

Application

EP 07024614 A 20071219

Priority

DE 102006060324 A 20061220

Abstract (en)

[origin: EP1936288A2] The method involves determining heated area, indicating characteristic value of each heating element from its thermal dynamics (K-therm). The characteristic values of multiple heating elements are compared with one another for detecting hydraulic over or under supply. The characteristic value is thermal dynamics. The characteristic value of the down time (t-t) is in between a target and beginning of heating process for increasing room temperature. An independent claim is also included for a system for detecting hydraulic alignment of a heating system.

IPC 8 full level

F24D 19/10 (2006.01)

CPC (source: EP US)

F24D 19/1018 (2013.01 - EP US)

Citation (search report)

- [X] EP 0189614 A1 19860806 - TNO [NL]
- [A] WO 2004083733 A1 20040930 - DANFOSS AS [DK], et al

Cited by

CN115076767A; DE102010034769A1; DE102014102275A1; DE102014102275B4

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 1936288 A2 20080625; EP 1936288 A3 20130123; EP 1936288 B1 20150722; DE 102006060324 A1 20080703; DK 1936288 T3 20151012; DK 1936290 T3 20160111; EP 1936290 A2 20080625; EP 1936290 A3 20130123; EP 1936290 B1 20150930; PL 1936288 T3 20151231; PL 1936290 T3 20160630

DOCDB simple family (application)

EP 07017809 A 20070912; DE 102006060324 A 20061220; DK 07017809 T 20070912; DK 07024614 T 20071219; EP 07024614 A 20071219; PL 07017809 T 20070912; PL 07024614 T 20071219