

Title (en)

MODULATION CONTROL OF A HYDRONIC HEATING SYSTEM

Title (de)

MODULATIONSSTEUERUNG EINES HYDRONIC-ERWÄRMUNGSSYSTEMS

Title (fr)

COMMANDE DE MODULATION D'UN SYSTÈME DE CHAUFFAGE HYDRONIQUE

Publication

EP 2109740 A4 20120208 (EN)

Application

EP 08713951 A 20080124

Priority

- US 2008051846 W 20080124
- US 62773907 A 20070126
- US 94931407 A 20071203

Abstract (en)

[origin: WO2008091970A2] A hydronic heating system for a building includes one or more condensing and one or more non-condensing boilers in a hybrid arrangement. A control apparatus receives information from one or more condition sensors, such as air temperature or water flow, and calculates heating load requirements. The control apparatus then independently selects and operates each boiler of the system to optimize boiler efficiency and operating characteristics. Optionally, the independent operation of the boiler(s) is modulated as a function a comparison of a heat load assignment for each boiler to a heat output of the boiler(s).

IPC 8 full level

F22B 37/42 (2006.01); **F01K 17/02** (2006.01)

CPC (source: EP US)

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Citation (search report)

- [YA] FR 2580792 A3 19861024 - LANDIS & GYR AG [CH]
- [YA] EP 1526338 A1 20050427 - VERTRIEB UND GROSSHANDEL VON H [DE]
- [A] GB 2045466 A 19801029 - VAILLANT JOH GMBH & CO
- [A] US 4502626 A 19850305 - GERSTMANN JOSEPH [US], et al
- [A] US 2005230490 A1 20051020 - POUCHAK MICHAEL A [US], et al
- See references of WO 2008091970A2

Designated contracting state (EPC)

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