

Title (en)

HEATING INSTALLATION COMPRISING A HEATING CIRCUIT, A BOILER AND A HEAT-PUMP

Publication

**EP 0013018 B1 19840627 (DE)**

Application

**EP 79105317 A 19791221**

Priority

- DE 2855485 A 19781222
- DE 2919877 A 19790517

Abstract (en)

[origin: EP0013018A1] 1. A heating installation having a heating circuit (2) and a heating furnace (1) lying in it, in particular oil or gas fired, and having an exhaust flue (6) in which there is arranged in heat-exchange relationship the evaporator (12) of a heat pump (13) in which circulates a refrigerant, where the said evaporator may with assistance from a blower (22) be acted upon at option by flue gas, by a mixture of flue gas and outside air, or by outside air, and the condenser (15) of the said heat pump lies in heat-exchange relationship in the heating circuit (2), characterized in that a control apparatus (37) is provided, which with the blower (22) running switches on the heating furnace (1) in dependence upon the pressure (or the temperature) of the refrigerant in the evaporator (12) and upon the pressure (or resp. the temperature) falling below a predetermined lower limiting value, and switches off the said furnace upon a predetermined limiting value of the pressure (or resp. the temperature) being exceeded.

IPC 1-7

**F24D 11/02**; F24J 3/04; F24D 19/10

IPC 8 full level

**F24D 11/02** (2006.01); **F24H 4/02** (2006.01)

CPC (source: EP)

**F24D 11/02** (2013.01); **F24H 4/02** (2013.01)

Cited by

GB2142136A; EP0099441A3; AT411099B; ITUB20155279A1; DE102019220038A1; FR2518229A1; US2014137813A1; DE3516072A1; CN108019940A; DE3218727A1; EP0070560A3; EP1376025A1; NL1020944C2; US4512288A; WO8303662A1; WO2018056891A1; WO2016066153A1; EP3361178B1

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