

Title (en)
Control of a central heating system.

Title (de)
Steuerung einer Zentralheizungsanlage.

Title (fr)
Régulation d'un système de chauffage central.

Publication
EP 0146264 A2 19850626 (EN)

Application
EP 84307939 A 19841115

Priority
GB 8333730 A 19831219

Abstract (en)
The present invention relates to the control of a central heating system. The system includes a condensing boiler 1, a pump 3 operable to pump hot flow water leaving the boiler 1 around a circuit having two branches 6 and 7 and an electrically operated diverter valve 4 operable to direct the flow water to flow into one or other of the branches. The branch 6 includes radiators 8 to provide space heating by release of heat from the flow water and the branch 7 includes a calorifier 10 for heating water stored in a cylinder 9. The control unit includes a cylinder thermostat 16, a room thermostat 17 and two pipe thermostats 18 and 19. The thermostat 18 is mounted on the pipework in the space heating branch 6 downstream of the radiators 8 and the thermostat 19 is mounted on the pipework in the hot water branch 7 upstream of the cylinder 9. When both hot water and space heating are required the boiler is operated and hot water is directed by the valve 4 to flow into the space heating branch 6 until the water reaches a preset level at the point where the thermostat 18 is mounted. At this stage the thermostat 18 switches from position e to f and the valve 4 directs the water to flow into the hot water branch 7. When the water temperature reaches a higher preset level at the point where the thermostat 19 is mounted it switches from position g to h. If thermostat 18 has switched back to position e because the temperature of the water at the thermostat 18 has fallen to below its preset level, the valve 4 directs the water to flow into the branch 6. The process is then repeated.

IPC 1-7
F24D 19/10

IPC 8 full level
F24D 19/10 (2006.01)

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