

(21) Application No: 0522544.6

(22) Date of Filing: 04.11.2005

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(51) INT CL:  
**G05D 23/19** (2006.01) **G05B 13/04** (2006.01)

(52) UK CL (Edition X):  
**G3N** NGLA N262 N373 N374 N387  
**U1S** S1978

(56) Documents Cited:  
**GB 2408592 A** **GB 2218540 A**  
**EP 0736826 A2** **EP 0444308 A1**  
**JP 2005283028 A** **US 5790437 A**  
**US 4217646 A** **US 20030050737 A**

(58) Field of Search:  
UK CL (Edition X) **G3N**  
INT CL **G05B, G05D**  
Other:

(54) Abstract Title: **electronic control units for central heating systems.**

(57) An automatic electronic control unit for controlling the operation of a central heating system where the time settings are determined automatically from a detection of the user's activity and lifestyle habits. An apparatus includes an electrical load sensor 22 for measuring the electrical load of one or more electrical appliances within the building and providing an output signal indicative of the electrical load of the one of more electrical appliances, and an electronic control unit that uses the output signal from the electrical load sensor to control an operation of the central heating system.

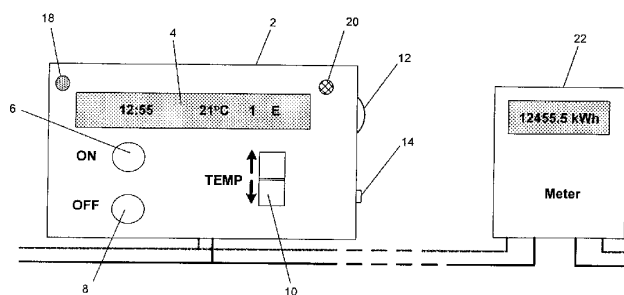


Figure 3

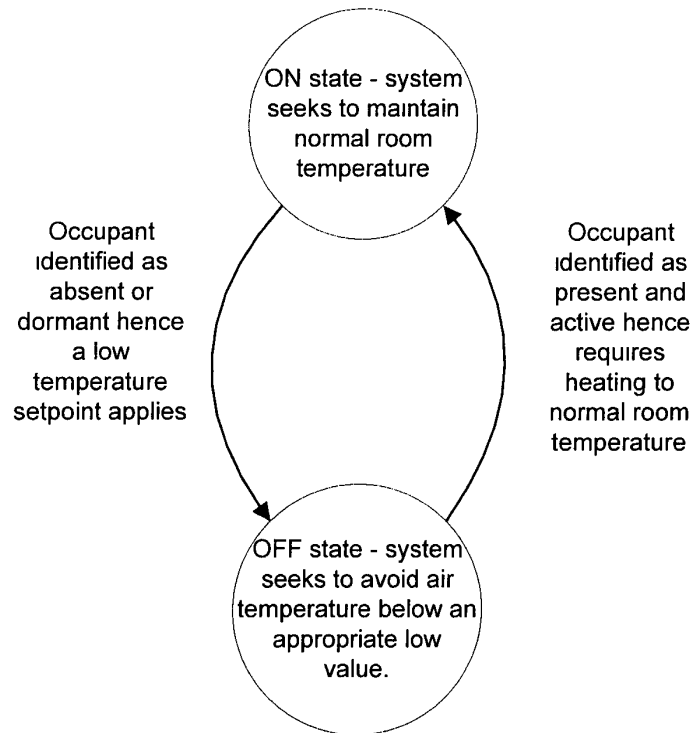


Figure 1

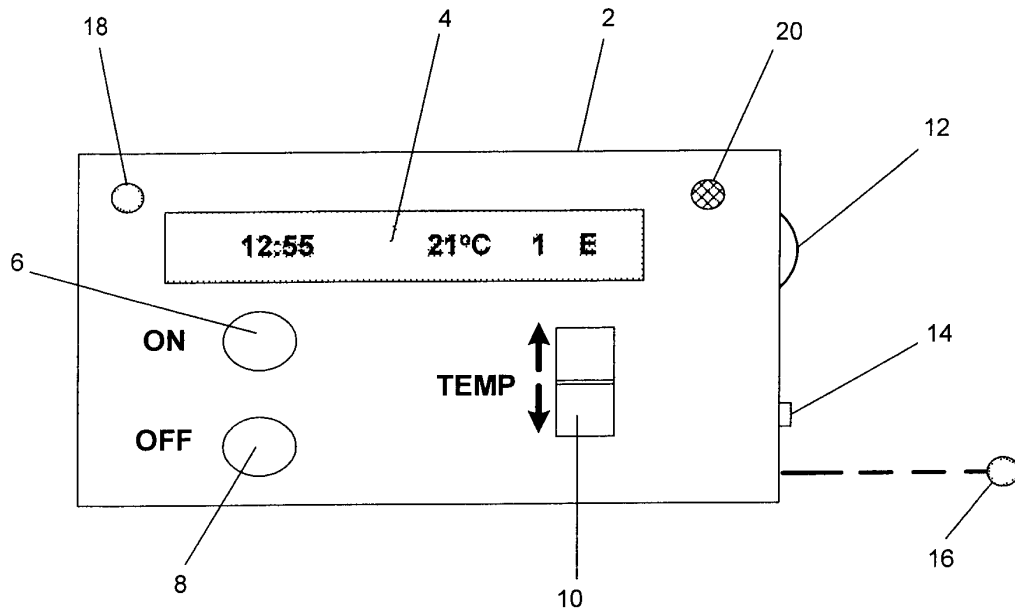


Figure 2

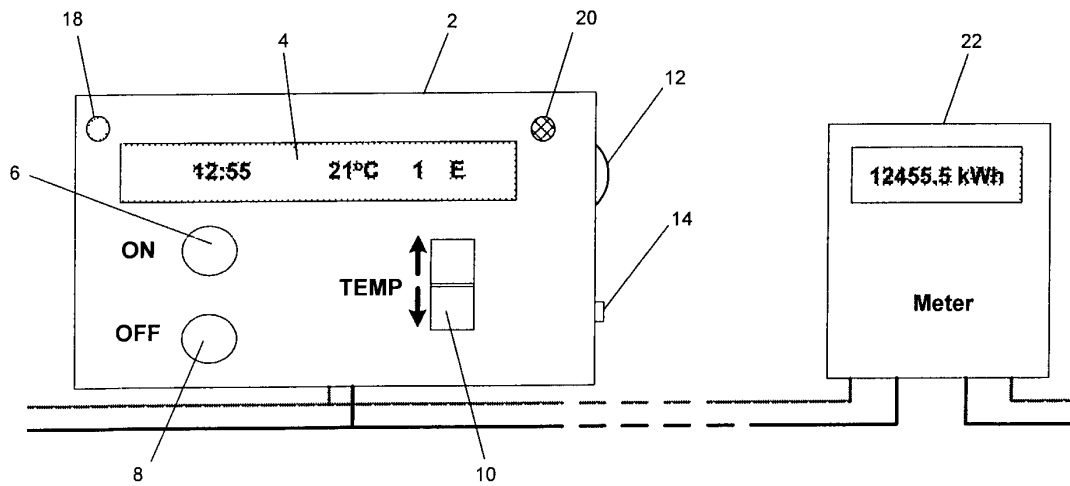


Figure 3

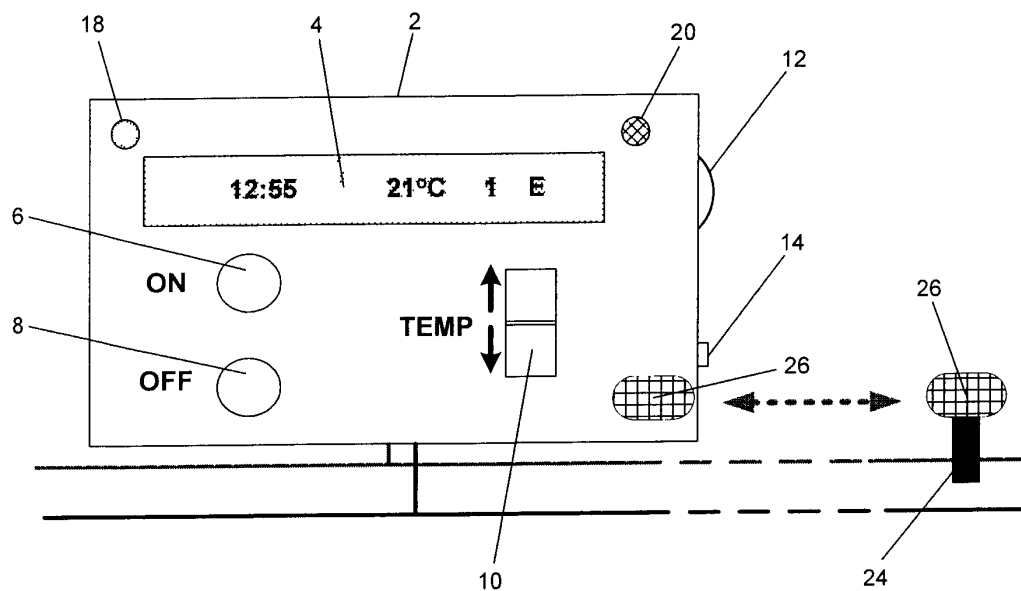


Figure 4

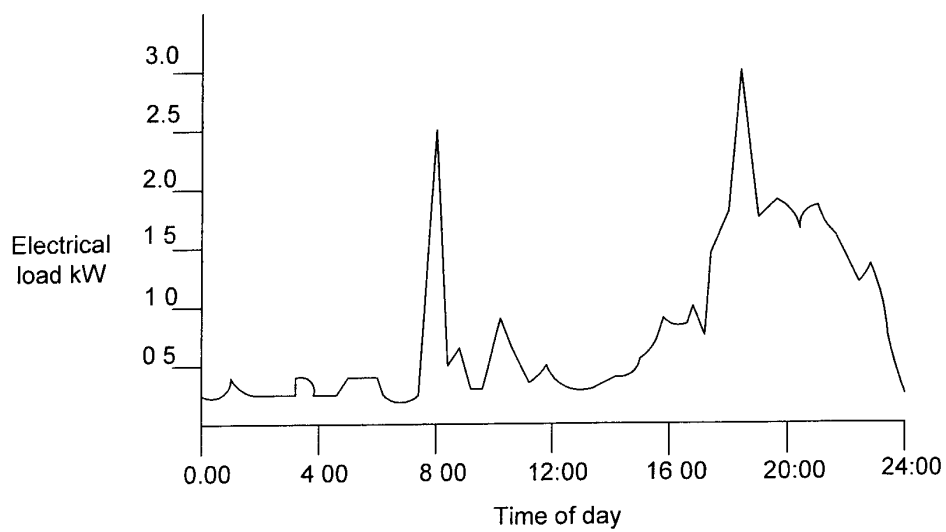


Figure 5

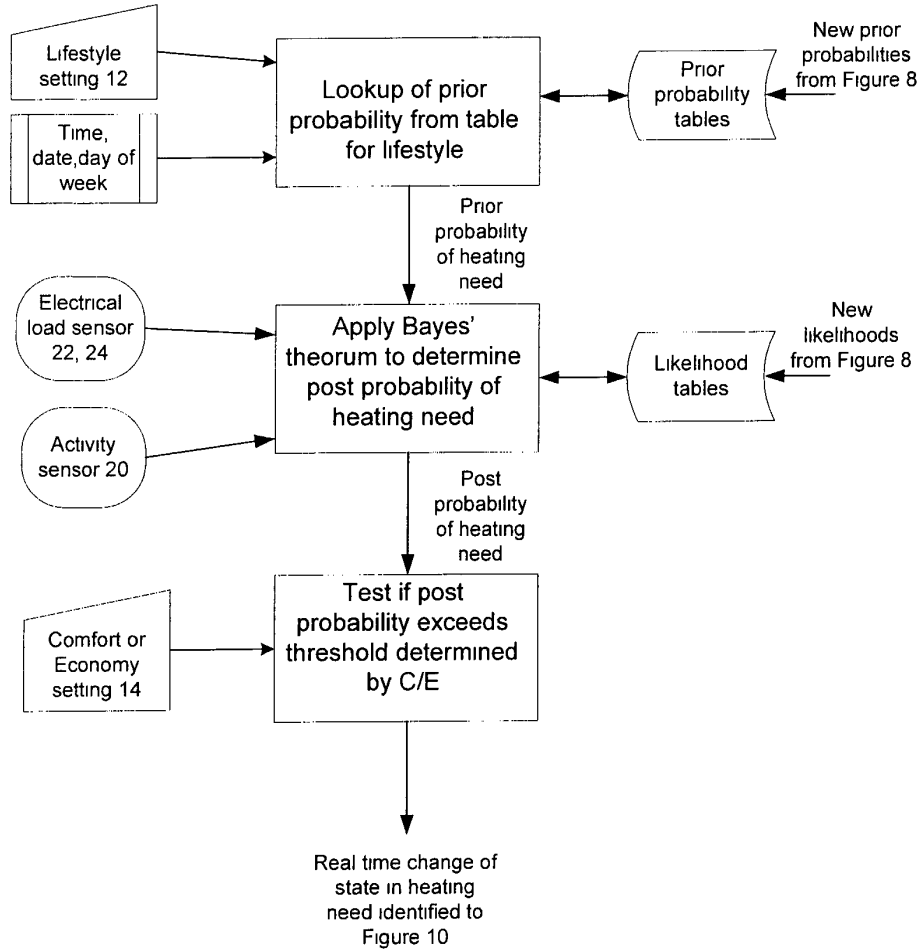


Figure 6

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