

Title (en)  
METHOD AND APPARATUS FOR REGULATING HEATER CYCLES TO IMPROVE FUEL EFFICIENCY

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR REGELUNG DES HEIZUNGSKREISLAUFES ZUR VERBESSERUNG DER  
BRENNSTOFFWIRTSCHAFTLICHKEIT

Title (fr)  
PROCEDE ET APPAREIL DE REGULATION DE CYCLES D'APPAREILS DE CHAUFFAGE PERMETTANT D'ACCROITRE LE RENDEMENT  
ENERGETIQUE

Publication  
**EP 1077821 B1 20120104 (EN)**

Application  
**EP 98913036 A 19980320**

Priority  
US 9805625 W 19980320

Abstract (en)  
[origin: WO9948713A1] A method and apparatus for improving heating system efficiency. An electronic circuit senses a firing signal from a boiler energy value sensor (26) such as a thermostat or pressuretrol. The circuit prevents the boiler energy value sensor from firing the burner, while the circuit senses an energy value of the outflow line (20) at the boiler (6). The circuit monitors the outflow energy value and records the outflow energy value at a first time of the firing signal. The circuit then continually monitors the outflow energy until it detects an energy drop from the initial outflow energy value. The circuit responds to the energy drop by firing the burner (10). The invention self-adaptively responds to present thermal load, reduces the number of on-off cycles, increases each burner run time while reducing total run time, improves fuel consumption, and reduces air pollution.

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