

Title (en)  
REMOTE MEASUREMENT AND CONTROL FOR A HEATING ELEMENT

Title (de)  
FERNMESSUNG UND STEUERUNG FÜR EIN HEIZELEMENT

Title (fr)  
MESURE ET COMMANDE A DISTANCE DESTINES A UN ELEMENT CHAUFFANT

Publication  
**EP 1563713 A1 20050817 (EN)**

Application  
**EP 03773970 A 20031119**

Priority  
• IL 0300979 W 20031119  
• IL 15294802 A 20021119

Abstract (en)  
[origin: WO2004047491A1] Apparatus for remotely obtaining a temperature of a fluid being heated by an electrical heating element (12), the apparatus including a switch (18) for governing supply of electrical power (16) to said heating element (12), said switch (18) being controllable to stop the supply of said electrical power (16) to said electrical heating element (12) for a duration sufficient for said heating element (12) to reach temperature equilibrium with said fluid, a signal generation unit (20), coordinated with said switch (18), for sending an electrical signal to said heating element (12) when said heating element (12) has reached said temperature equilibrium, a measurement unit (22) for measuring a measurable property of said electrical signal, said measurable property having a temperature dependency, to determine the temperature of said heating element (12) and thereby to infer the temperature of said fluid.

IPC 1-7  
**H05B 1/02**; **F24H 1/18**

IPC 8 full level  
**G05D 23/19** (2006.01); **G05D 23/24** (2006.01); **H05B 1/02** (2006.01)

CPC (source: EP)  
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See references of WO 2004047491A1

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