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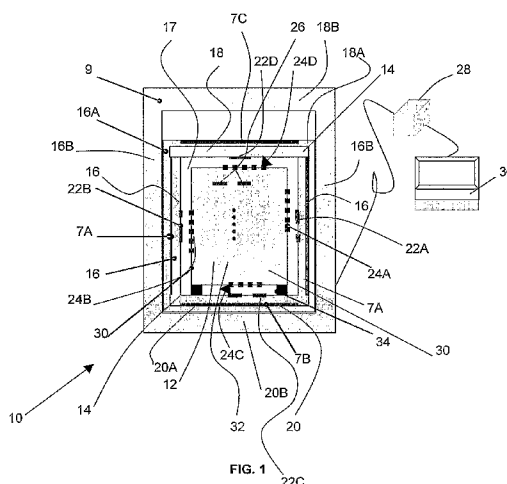
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(54) Title: A TEMPERATURE MONITORING APPARATUS, SYSTEM AND METHOD FOR MONITORING THE TEMPERATURE OF A REACTANT SYSTEM



(57) Abstract: The invention relates to a temperature monitoring apparatus for monitoring the temperature of a sample reactant undergoing a reaction. The temperature monitoring apparatus comprises a housing having at least one inner wall defining an enclosed chamber. A first temperature sensor is provided on the inner wall of said housing. The apparatus also comprises a sample container provided within the chamber for containing said sample reactant therein and a second temperature sensor provided on an external surface of said sample container. A third temperature sensor is also provided within the sample container. The apparatus also comprises a heater capable of heating said chamber and a controller capable of operating said heater based on the output from said first and second temperature sensors and capable of monitoring the output of said third temperature sensor.

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