

### **Substrate temperature measurement by infrared spectroscopy**

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The temperature of an infrared radiation scattering medium which contains water, for example, biological tissue and paper, cement and clay substrates, is determined by exposing the medium to infrared radiation, measuring the reflected radiation scattered by the medium, comparing the reflected radiation with calibrated values, and evaluating the temperature of the medium from the comparison; the technique provides a means of non-invasive determination of temperature in biological tissue which has utility in medical diagnosis.

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