



[54] THERMAL ANALYSIS INSTRUMENT

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[57] ABSTRACT

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The temperature of a heat reservoir is varied according to a linear function which is AC modulated. At this time, the temperature difference between two points located in a heat flow path going from the heat reservoir to an unknown sample is measured. Also, the temperature difference between two points located in a heat flow path going from the heat reservoir to a reference sample is measured. These two pairs of points are arranged symmetrically. Then, the resulting signals are demodulated, and each signal is divided into an AC component and a low-frequency component. Using these signals, the DSC signal is separated into a heat capacity component and a latent heat component.

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[58] Field of Search 374/10, 11, 12,
374/13, 31

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18 Claims, 1 Drawing Sheet

