

Title (en)  
HEAT-FLOW CALORIMETER

Title (de)  
WÄRMEFLUSS-KALORIMETER

Title (fr)  
CALORIMÈTRE À FLUX DE CHALEUR

Publication  
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Application  
**EP 10785315 A 20101117**

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Abstract (en)  
[origin: WO201106663A1] The invention relates to a sensor arrangement for a calorimeter, comprising a first receptacle (1.1) for a sample to be analyzed and at least two first thermoelectric sensors (5.1, 5.2, 5.3). Each of the at least two first thermoelectric sensors (5.1, 5.2, 5.3) comprises at least one first sensor surface. The first receptacle (1.1) is arranged between the first thermoelectric sensors (5.1, 5.2, 5.3) in such a way that the first sensor surfaces thereof face the first receptacle (1.1). The at least two first thermoelectric sensors (5.1, 5.2, 5.3) are based on a thin-film structure, which comprises a plurality of p and n thermoelectric legs arranged at an offset, wherein the thermoelectrically active components comprise connections made of bismuth, antimony, tellurium, and/or selenium. A sample volume of the first receptacle (1.1) that can be detected by the at least two first thermoelectric sensors (5.1, 5.2, 5.3) at a certain time is 0.02 ml or less. The first sensor surfaces of the at least two first thermoelectric sensors (5.1, 5.2, 5.3) have a planar design in such a way that the first sensor surfaces correspond to at least one projection surface of the sample volume onto the respective first thermoelectric sensor (5.1, 5.2, 5.3).

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