

Title (en)  
DEVICE FOR MEASURING QUANTITIES OF HEAT WHILE SIMULTANEOUSLY MEASURING THE EVAPORATION KINETICS AND/OR CONDENSATION KINETICS OF THE MOST MINUTE AMOUNTS OF LIQUID IN ORDER TO DETERMINE THERMODYNAMIC PARAMETERS

Title (de)  
ANORDNUNG ZUR MESSUNG VON WÄRMEMENGEN BEI GLEICHZEITIGER MESSUNG DER VERDAMPFUNGS- UND/ODER KONDENSATIONSKINETIK VON KLEINSTEN FLÜSSIGKEITSMENGEN ZUR BESTIMMUNG THERMODYNAMISCHER PARAMETER

Title (fr)  
ENSEMBLE PERMETTANT DE MESURER DES QUANTITES DE CHALEUR EN MESURANT SIMULTANEMENT LES CINETIQUES D'EVAPORATION ET/OU DE CONDENSATION DE QUANTITES MINIMALES DE LIQUIDE, AFIN DE DETERMINER DES PARAMETRES THERMODYNAMIQUES

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Application  
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Abstract (en)  
[origin: WO03069292A1] The invention relates to a device for measuring quantities of heat while simultaneously measuring the evaporation kinetics and/or condensation kinetics of the most minute amounts of liquid in order to determine thermodynamic parameters. The aim of the invention is to determine low thermal outputs, which are absorbed or released by the sample, as well as small differences between thermal outputs with regard to a reference measurement of the same magnitude. To this end, a most minute amount of liquid is located inside a measuring chamber having a constant temperature and air humidity. At least one thermal sensor is provided for repeatedly measuring the thermal radiation emitted from the most minute amount of liquid. A measuring means serves to determine the time-dependent change in the most minute amount of liquid. A computer is assigned to the measuring chamber in order to register, display, evaluate and/or subsequently process the measured values.

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