

Title (en)

METHOD AND DEVICE FOR CHARACTERIZING SOLID MATERIALS, AND METHOD AND INSTALLATION FOR DETERMINING A THERMODYNAMIC CHARACTERISTIC OF PROBE MOLECULES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR CHARAKTERISIERUNG VON FESTSTOFFMATERIALIEN SOWIE VERFAHREN UND ANLAGE ZUR BESTIMMUNG EINER THERMODYNAMISCHEN EIGENSCHAFT VON SONDENMOLEKÜLEN

Title (fr)

PROCEDE ET DISPOSITIF DE CARACTERISATION DE MATERIAUX SOLIDES, AINSI QUE PROCEDE ET INSTALLATION DE DETERMINATION D'UNE CARACTERISTIQUE THERMODYNAMIQUE DE MOLECULES SONDÉS

Publication

EP 2510340 A1 20121017 (FR)

Application

EP 10805715 A 20101208

Priority

- FR 0958754 A 20091208
- FR 2010052643 W 20101208

Abstract (en)

[origin: WO2011070295A1] The aim of the invention is to improve the characterization of solid materials by simplifying the implementation thereof, while still obtaining results that are reliable and precise. In the method according to the invention: a material (M) to be characterized, in powder form, is placed in a well (4); while the material (M) is being heated by the applying a predetermined power (P) thereto, the radiative heat flux (F) emitted by the material is measured; and a characteristic of the material (M), associated with the heat lost by said material by thermal conduction to the walls of the well (4), is deduced from the measurements relating to the radiative heat flux (F).

IPC 8 full level

G01N 15/02 (2006.01); **G01N 25/18** (2006.01)

CPC (source: EP US)

G01N 15/02 (2013.01 - EP US); **G01N 15/08** (2013.01 - EP US); **G01N 25/18** (2013.01 - EP US)

Citation (search report)

See references of WO 2011070295A1

Citation (examination)

- US 2004042528 A1 20040304 - BRINZ THOMAS [DE], et al
- US 6306658 B1 20011023 - TURNER HOWARD W [US], et al
- US 2007092974 A1 20070426 - SWENSON LASALLE R [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

FR 2953598 A1 20110610; FR 2953598 B1 20120323; CN 102725628 A 20121010; EP 2510340 A1 20121017; US 2013058376 A1 20130307; WO 2011070295 A1 20110616

DOCDB simple family (application)

FR 0958754 A 20091208; CN 201080062411 A 20101208; EP 10805715 A 20101208; FR 2010052643 W 20101208; US 201013514961 A 20101208