

Title (en)

MEASUREMENT OF PARAMETERS LINKED TO THE FLOW OF FLUIDS IN A POROUS MATERIAL

Title (de)

MESSUNG VON MIT DEM FLUSS VON FLUIDEN IN EINEM PORÖSEN MATERIAL VERKNÜPFTEN PARAMETERN

Title (fr)

MESURE DE PARAMETRES LIES A L'ECOULEMENT DE FLUIDES DANS UN MATERIAU POREUX

Publication

**EP 2526400 A1 20121128 (FR)**

Application

**EP 11704666 A 20110121**

Priority

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Abstract (en)

[origin: WO2011089367A1] The invention relates to a method in which a sample (2) of the material to be studied is placed in a sealed cell (1) such that the upstream surface (3) thereof communicates with a first space (V0) and the downstream surface (4) thereof communicates with a second space. The pressure in the first space is modulated and the variations over time of the respective pressures in the first space and in the second space are measured. By means of a differential equation taking as parameters the intrinsic permeability of the material, the porosity and the Klinkenberg coefficient thereof, the pressure variations measured are digitally analysed to estimate at least the intrinsic permeability and the Klinkenberg coefficient of the material, and advantageously the porosity of the material during the same experiment.

IPC 8 full level

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