Title (en)

PYROLYSIS TO DETERMINE HYDROCARBON EXPULSION EFFICIENCY OF HYDROCARBON SOURCE ROCK

Title (de)

PYROLYSE ZUR BESTIMMUNG DER KOHLENWASSERSTOFFAUSSTOSSEFFIZIENZ VON KOHLENWASSERSTOFFMUTTERGESTEIN

Title (fr)

PYROLYSE POUR DÉTERMINER L'EFFFICACITÉ D'EXPULSION D'HYDROCARBURES DE ROCHE MÈRE D'HYDROCARBURES

Publication

EP 3646023 A1 20200506 (EN)

Application

EP 18743630 A 20180621

Priority

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- US 2018038799 W 20180621

Abstract (en)

[origin: WO2019005583A1] An open system pyrolysis of a first hydrocarbon source rock sample obtained from a natural system is performed within a pyrolysis chamber by maintaining the pyrolysis chamber at a substantially constant temperature. Hydrocarbons are recovered from the pyrolysis chamber released by the first hydrocarbon source rock sample. A thermo-vaporization is performed within the pyrolysis chamber on the pyrolyzed sample at a substantially constant temperature. A first hydrocarbon expulsion efficiency of hydrocarbon source rock is determined. A second hydrocarbon rock sample is ground to a grain size less than or equal to or less than 250 micrometers. A second pyrolysis is performed on the ground hydrocarbon source rock sample by maintaining the chamber at a substantially constant temperature. A second hydrocarbon expulsion efficiency of the hydrocarbon source rock in the natural system is determined. The first hydrocarbon expulsion efficiency is verified using the second hydrocarbon expulsion efficiency.

IPC 8 full level

G01N 31/12 (2006.01); **G01N 33/24** (2006.01)

CPC (source: EP)

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Citation (search report)

See references of WO 2019005583A1

Designated contracting state (EPC)

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