

Title (en)

Method of optimising the assisted recovery of a fluid placed in a porous medium by front follow-up

Title (de)

Verfahren zur Optimierung der forcierten Förderung eines Fluids in einem porösen Medium durch Frontalüberwachung

Title (fr)

Méthode pour optimiser la récupération assistée d'un fluide en place dans un milieu poreux par suivi de front

Publication

EP 1889999 B1 20110914 (FR)

Application

EP 07290895 A 20070716

Priority

FR 0607374 A 20060816

Abstract (en)

[origin: EP1889999A1] The method involves determining a speed and flow direction of a fluid using a flow simulator to solve a pressure equation. A relation describing a position of a front separating the fluids is defined by liberating a viscous coupling using disturbance theory and considering speed fluctuations in forward direction from the front and in direction perpendicular to a forward direction. The position is reconstructed in a grid using relation discretization and rapid Fourier transformation. Injection of a purging medium is optimized according to the position.

IPC 8 full level

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CPC (source: EP US)

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Cited by

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