

Title (en)

Machine, computer program product and method to generate unstructured grids and carry out parallel reservoir simulation

Title (de)

Maschine, Computerprogrammprodukt und Verfahren zur Erzeugung unstrukturierter Gitter und Ausführung von paralleler Reservoirsimulation

Title (fr)

Machine, produit programme d'ordinateur et procédé pour générer des grilles non structurées et effectuer des simulations parallèles de réservoir

Publication

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Application

**EP 14175672 A 20110826**

Priority

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- US 95550410 A 20101129
- EP 11767321 A 20110826
- US 2011049290 W 20110826

Abstract (en)

[origin: WO2012033650A2] A machine, computer program product, and method to enable scalable parallel reservoir simulations for a variety of simulation model sizes are described herein. Some embodiments of the disclosed invention include a machine, methods, and implemented software for performing parallel processing of a grid defining a reservoir or oil/gas field using a plurality of sub-domains for the reservoir simulation, a parallel process of re-ordering a local cell index for each of the plurality of cells using characteristics of the cell and location within the at least one sub-domain and a parallel process of simulating at least one production characteristic of the reservoir.

IPC 8 full level

**E21B 49/00** (2006.01)

CPC (source: EP)

**E21B 49/00** (2013.01)

Citation (search report)

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- [A] WO 2009075945 A1 20090618 - EXXONMOBIL UPSTREAM RES CO [US], et al
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DOCDB simple family (publication)

**WO 2012033650 A2 20120315; WO 2012033650 A3 20120705**; CN 103097657 A 20130508; CN 103097657 B 20150527; EP 2614218 A2 20130717; EP 2614460 A2 20130717; EP 2614460 B1 20140709; EP 2811112 A2 20141210; EP 2811112 A3 20150325; EP 2811112 B1 20190724; WO 2012033693 A2 20120315; WO 2012033693 A3 20120531; WO 2012033693 A4 20120802

DOCDB simple family (application)

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