

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

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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.

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