



(57) Abrégé(suite)/Abstract(continued):

c) generating one or more sample realizations for the geomodel by sampling one or more grid-cell physical properties along one or more streamline trajectories from one or more of the multiple realizations of the geomodel that meet a predetermined rank criteria, the one or more streamline trajectories connecting the selected production well with at least one of an injection well, an aquifer and a gas cap; d) updating one or more of the multiple realizations for the selected production well using the one or more sample realizations and a computer system; and e) repeating steps a)-d) for each production well in the group of production wells.

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TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG). **Published:** — *with international search report (Art. 21(3))*

