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(54) Title: CART-BASED PROXY FLOW SIMULATION PROCEDURE FOR RANKING GEOSTATISTICAL REALIZATIONS OF ROCK PROPERTIES

(57) Abstract: A system and method for performing classification and regression tree flow simulations for reservoir. A partial flow simulation is performed. Dynamic properties associated with the partial flow simulation are stored for each time step. CART is utilized to predict changes in the dynamic properties utilizing stored dynamic properties determined by the partial flow simulation.

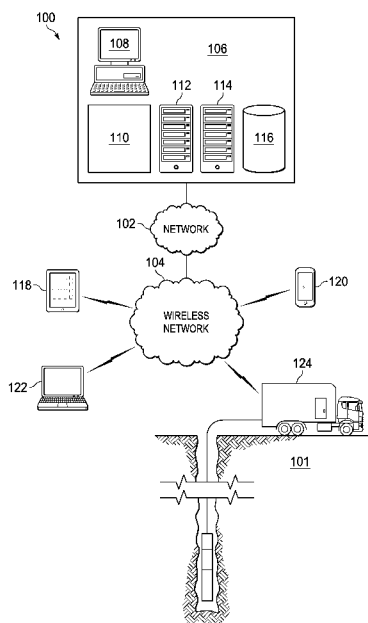


FIG. 1



— *with amended claims (Art. 19(1))*