

Title (en)

METHOD FOR EXPLOITATION OF A SUBTERRANEAN FORMATION BY INJECTION OF A FLUID COMPRISING AN ADDITIVE TAGGED BY A LUMINESCENT SEMICONDUCTOR NANOCRYSTAL

Title (de)

VERFAHREN ZUR AUSBEUTUNG EINER UNTERIRDISCHEN FORMATION DURCH INJEKTION EINES FLUIDS MIT EINEM DURCH EINEN LUMINESZENTEN HALBLEITERNANOKRISTALL MARKIERTEN ADDITIVS

Title (fr)

PROCEDE D'EXPLOITATION D'UNE FORMATION SOUTERRAINE PAR INJECTION D'UN FLUIDE COMPRENANT UN ADDITIF MARQUE PAR UN NANO-CRISTAL SEMI-CONDUCTEUR LUMINESCENT

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Application

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Abstract (en)

[origin: WO2016184640A1] The present invention relates to a method for exploitation of a subterranean formation, into which at least one fluid is injected. According to the invention, the fluid comprises at least one additive, the additive being tagged by at least one luminescent (fluorescent or phosphorescent) semiconductor nanocrystal. In this way, and by optical analysis of the presence of luminescent semiconductor nanocrystal in a fluid recovered from the subterranean formation, it is possible to determine the presence and/or the amount of additive in the fluid recovered. Given that the semiconductor nanocrystal is either phosphorescent or fluorescent, the additive is rendered easily detectable and quantitatively assayable in the fluids recovered from the subterranean formation.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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