

Title (en)
IMPROVED METHOD AND CHEMICAL AGENT FOR REDUCTION OF WATER PRODUCTION FROM OIL AND GAS CONTAINING WELLS

Title (de)
VERBESSERTES VERFAHREN UND CHEMISCHES MITTEL ZUR REDUKTION DER WASSERPRODUKTION AUS ÖL- UND GASHALTIGEN BOHRLÖCHERN

Title (fr)
PROCÉDÉ ET AGENT CHIMIQUE AMÉLIORÉS POUR LA RÉDUCTION DE LA PRODUCTION D'EAU À PARTIR DE PUIITS CONTENANT DU PÉTROLE ET DU GAZ

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Application
EP 15842152 A 20150915

Priority
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Abstract (en)
[origin: WO2016043598A1] The invention relates to a chemical substance (200) for reducing water production from subterranean zones surrounding oil and gas wells after being inserted into the formation, the chemical substance (200) comprising a plurality of particles (210), wherein each particle (210) has a water-swellaable core (220). Each core (220) has been coated with a flexible coating layer (230) which is hydrophobic under all circumstances in the well and which does not swell in the presence of water nor react with water. Furthermore, the flexible coating layers from different particles contacting each other, have the property of forming an interconnected hydrophobic network (or pathway) of "channels", at least in a swollen condition of the core, for allowing hydrocarbons to go through this hydrophobic network/pathway while simultaneously preventing water (hydrophilic) to go through the "channels".

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