

Title (en)

METHOD FOR MODIFYING THE WATER PERMEABILITY OF A SUBTERRANEAN FORMATION

Title (de)

VERFAHREN ZUR MODIFIZIERUNG DER WASSERDURCHLÄSSIGKEIT EINER UNTERIRDISCHEN FORMATION

Title (fr)

PROCEDE DE MODIFICATION DE LA PERMEABILITE A L'EAU D'UNE FORMATION SOUTERRAINE

Publication

EP 3918026 A1 20211208 (FR)

Application

EP 20707498 A 20200129

Priority

- FR 1901021 A 20190201
- FR 2020050134 W 20200129

Abstract (en)

[origin: WO2020157429A1] The invention relates to a method for modifying the water permeability of a subterranean formation, comprising at least the following steps: - preparing an injection fluid from a dispersion of a hydrophilic phase in a lipophilic phase, with water or brine, the dispersion comprising: - a hydrophilic phase comprising at least one cross-linked (co)polymer PR, - a lipophilic phase, - at least one interface polymer composed of at least one monomer of formula (I): - injecting the injection fluid into the subterranean formation, said cross-linked (co)polymer PR forming a hydrogel in the presence of water.

IPC 8 full level

C09K 8/588 (2006.01); **C08F 16/00** (2006.01)

CPC (source: EP US)

C08F 220/56 (2013.01 - EP); **C08F 265/06** (2013.01 - EP); **C09K 8/44** (2013.01 - US); **C09K 8/588** (2013.01 - EP)

C-Set (source: EP)

1. **C08F 220/56** + **C08F 220/585** + **C08F 220/06** + **C08F 222/385** + **C08F 220/325**
2. **C08F 265/06** + **C08F 220/56**

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2020157429 A1 20200806; AR 117968 A1 20210908; BR 112021014942 A2 20211228; CA 3127412 A1 20200806; CN 113423801 A 20210921; CN 113423801 B 20230825; CO 2021010132 A2 20210809; EA 202191832 A1 20211123; EP 3918026 A1 20211208; FR 3092329 A1 20200807; FR 3092329 B1 20210129; US 11767460 B2 20230926; US 11987744 B2 20240521; US 2022081604 A1 20220317; US 2023392066 A1 20231207

DOCDB simple family (application)

FR 2020050134 W 20200129; AR P200100262 A 20200131; BR 112021014942 A 20200129; CA 3127412 A 20200129; CN 202080011679 A 20200129; CO 2021010132 A 20210730; EA 202191832 A 20200129; EP 20707498 A 20200129; FR 1901021 A 20190201; US 202017422840 A 20200129; US 202318452258 A 20230818