

Title (en)

DISPERSION OF WATER-SOLUBLE POLYMER FOR HYDRAULIC FRACTURING

Title (de)

DISPERSION VON WASSERLÖSLICHEM POLYMER FÜR HYDRAULISCHE FRAKTURIERUNG

Title (fr)

DISPERSION DE POLYMERES HYDROSOLUBLE POUR LA FRACTURATION HYDRAULIQUE

Publication

EP 4402220 A1 20240724 (FR)

Application

EP 22789177 A 20220913

Priority

- FR 2109669 A 20210915
- EP 2022075444 W 20220913

Abstract (en)

[origin: CA3230987A1] The present application relates to an injection fluid F for hydraulic fracturing comprising at least one synthetic water-soluble polymer P with a weight-average molecular weight greater than or equal to 1 million daltons, said fluid being prepared according to a method comprising the following successive steps: a) preparing, by radical polymerization, an inverse emulsion E comprising between 15% and 40% by weight of polymer P, between 20% and 60% by weight of water and at least one hydrocarbon-based solvent, the percentages being expressed by weight relative to the weight of the emulsion E, b) distilling the inverse emulsion E to obtain a dispersion D comprising between 40% and 60% by weight of particles of polymer P, less than 10% by weight of water and at least one hydrocarbon-based solvent, the percentages being expressed by weight relative to the weight of the dispersion D, c) diluting the dispersion D with 1% to 15% by weight of an aqueous solution S comprising between 20% and 60% by weight of salts, the percentages being expressed by weight relative to the weight of the dispersion D.

IPC 8 full level

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