

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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CPC (source: EP US)

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