

Title (en)  
CRYSTALLIZATION SUPPRESSANT COMBINATIONS FOR HIGH DENSITY CLEAR BRINE FLUIDS

Title (de)  
KRISTALLISATIONSENTERDRÜCKUNGSKOMBINATIONEN FÜR HOCHDICHT KLARE SOLE

Title (fr)  
COMBINAISONS D'AGENTS DE SUPPRESSION DE LA CRISTALLISATION POUR DES FLUIDES DE SAUMURE TRANSPARENTE À HAUTE DENSITÉ

Publication  
**EP 3775093 A1 20210217 (EN)**

Application  
**EP 19780945 A 20190402**

Priority  
• US 201815944007 A 20180403  
• US 2019025347 W 20190402

Abstract (en)  
[origin: WO2019195259A1] Compounds are identified that act as crystallization suppressants when added to clear brine fluids, significantly lowering the true crystallization temperatures of the brines, and allowing for higher salt content in clear brine fluids. The crystallization suppressants of the invention also allow for the preparation of higher density zinc free brines. Crystallization suppressant blends are also identified that allow for the preparation of high density clear brine fluids with lower viscosities.

IPC 8 full level  
**C09K 8/035** (2006.01); **C09K 8/68** (2006.01); **C09K 8/86** (2006.01); **C09K 8/88** (2006.01)

CPC (source: EP IL)  
**C09K 8/03** (2013.01 - EP IL); **C09K 8/035** (2013.01 - IL); **C09K 8/52** (2013.01 - IL); **C09K 8/665** (2013.01 - EP IL); **C09K 8/68** (2013.01 - EP IL); **C09K 8/845** (2013.01 - EP IL); **C09K 8/86** (2013.01 - EP IL)

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 2019195259 A1 20191010**; BR 112020019839 A2 20210105; CN 111971365 A 20201120; CN 111971365 B 20230414; EP 3775093 A1 20210217; IL 277050 A 20201029; IL 277050 B1 20240301; IL 277050 B2 20240701; MX 2020010449 A 20201020; SA 520420272 B1 20240314; SG 11202008458U A 20201029

DOCDB simple family (application)  
**US 2019025347 W 20190402**; BR 112020019839 A 20190402; CN 201980023582 A 20190402; EP 19780945 A 20190402; IL 27705020 A 20200831; MX 2020010449 A 20190402; SA 520420272 A 20201004; SG 11202008458U A 20190402