

Title (en)

POLYARYLETHERSULFONE OIL AND GAS RECOVERY ARTICLES, METHOD OF PREPARATION AND METHOD OF USE

Title (de)

ARTIKEL FÜR POLYARYLETHERSULFONÖL- UND GASRÜCKGEWINNUNG, VERFAHREN ZUR HERSTELLUNG UND VERFAHREN ZUR VERWENDUNG

Title (fr)

ARTICLES DE RÉCUPÉRATION DE PÉTROLE ET DE GAZ EN POLYARYLÉTHERSULFONE, PROCÉDÉ DE PRÉPARATION ET PROCÉDÉ D'UTILISATION

Publication

**EP 3024879 A1 20160601 (EN)**

Application

**EP 14739176 A 20140716**

Priority

- US 201361857034 P 20130722
- EP 13185207 A 20130919
- EP 2014065206 W 20140716
- EP 14739176 A 20140716

Abstract (en)

[origin: WO2015010977A1] An oil and gas recovery article comprising at least one part made of a poly(arylether sulfone) polymeric material comprising at least one poly(arylether sulfone) polymer, wherein said (t-PAES) polymer comprising more than 50 % moles of recurring units (Rt) of formula (St):  $-E-Ar_1-SO_2-[Ar_2-(T-Ar_3)_n-SO_2]_m-Ar_4$  wherein n and m, equal to or different from each other, are independently zero or an integer of 1 to 5, each of Ar<sub>1</sub>, Ar<sub>2</sub>, Ar<sub>3</sub> and Ar<sub>4</sub> equal to or different from each other and at each occurrence, is an aromatic moiety, T is a bond or a divalent group and E is of formula (Et), wherein each of R<sup>i</sup>, equal to or different from each other, is selected from the group consisting of halogen, alkyl, alkenyl, alkynyl, aryl, ether, thioether, carboxylic acid, ester, amide, imide, alkali or alkaline earth metal sulfonate, alkyl sulfonate, alkali or alkaline earth metal phosphonate, alkyl phosphonate, amine and quaternary ammonium; j' is zero or is an integer from 1 to 4.

IPC 8 full level

**C08G 75/23** (2006.01); **E21B 1/00** (2006.01); **E21B 33/12** (2006.01); **E21B 34/00** (2006.01); **E21B 43/00** (2006.01)

CPC (source: EP US)

**E21B 17/00** (2013.01 - EP); **E21B 41/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2015010977A1

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 2015010977 A1 20150129**; CN 105408397 A 20160316; EP 2851387 A1 20150325; EP 3024879 A1 20160601; JP 2016535142 A 20161110

DOCDB simple family (application)

**EP 2014065206 W 20140716**; CN 201480041744 A 20140716; EP 13185207 A 20130919; EP 14739176 A 20140716; JP 2016528427 A 20140716