

Title (en)
CHEMICAL PRODUCTS FOR SURFACE PROTECTION

Title (de)
CHEMISCHE PRODUKTE FÜR OBERFLÄCHENSCHUTZ

Title (fr)
PRODUITS CHIMIQUES DE PROTECTION DE SURFACE

Publication
EP 3440060 A4 20200429 (EN)

Application
EP 16866896 A 20161111

Priority
• US 201562258023 P 20151120
• US 201562260777 P 20151130
• US 2016061639 W 20161111

Abstract (en)
[origin: CN108473440A] Some implementations of the present disclosure prevent, reduce or at least slow equipment fouling using passivation as a treatment prior to contacting metallic components with hydrocarbon containing fluid, that is, an environment where fouling occurs. For example, one implementation includes a method of passivating heat exchangers in a SAGD process or system using the compositions and compounds of the present disclosure. The composition may be applied to a component prior to its first inclusion in an online system or following placing the system offline for maintenance. The composition may be used to treat metallic equipment surface(s), for example, via contacting them with a suspension or solution of the composition described herein, prior placing the system online. The method may further include treatment of the process fluid, for example, via injection or batch treatment of the composition with the compositions described herein into the process fluid.

IPC 8 full level
C07D 233/04 (2006.01); **C02F 5/12** (2006.01); **C02F 5/14** (2006.01); **C07D 233/08** (2006.01); **C07D 233/12** (2006.01); **C02F 103/02** (2006.01); **C02F 103/10** (2006.01)

CPC (source: CN EP US)
C02F 5/12 (2013.01 - EP US); **C02F 5/14** (2013.01 - EP); **C07C 233/78** (2013.01 - EP US); **C07D 233/24** (2013.01 - EP US); **C09D 5/08** (2013.01 - CN); **C09D 5/1625** (2013.01 - US); **C09D 7/63** (2017.12 - CN); **C09K 8/524** (2013.01 - CN); **C23F 14/02** (2013.01 - CN); **C02F 2103/023** (2013.01 - EP); **C02F 2103/10** (2013.01 - EP); **C02F 2103/365** (2013.01 - EP US); **C02F 2303/20** (2013.01 - EP); **C02F 2305/04** (2013.01 - EP)

Citation (search report)
• [X] US 6303079 B1 20011016 - MEYER GEORGE RICHARD [US]
• [I] US 7951754 B2 20110531 - TIWARI LAXMIKANT [GB], et al
• [I] US 2003030034 A1 20030213 - MEYER GEORGE RICHARD [US]
• [I] US 2015225351 A1 20150813 - CONTRERAS JOSE IGNACIO REGLA [MX], et al
• [A] US 4497702 A 19850205 - MILLER RICHARD F [US], et al
• [X] GB 1332959 A 19731010 - AJINOMOTO KK
• [X] GB 671141 A 19520430 - AMERICAN VISCOSE CORP
• [X] WO 2005079541 A2 20050901 - UNIV YALE [US], et al
• See references of WO 2017087279A1

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

DOCDB simple family (publication)
CN 108473440 A 20180831; CN 113201319 A 20210803; CN 113234428 A 20210810; EP 3440060 A1 20190213; EP 3440060 A4 20200429

DOCDB simple family (application)
CN 201680076238 A 20161111; CN 202110508123 A 20161111; CN 202110508249 A 20161111; EP 16866896 A 20161111