



New connection on: : 14-03-2018 : 20:01:38 - Last
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V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29
+0200#(D201802)) (RPM D201802)

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[EPODOC: SS 23] ..fi

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Database: EPODOC

Records: 107.789.965

Terms: 1.420.127.863

Occurrences: 21.368.314.144

Last Update: 20180314

[SS 24] proppant and coat

Results in EPODOC 26

[SS 25] 24 and method

Results in EPODOC 10

Results in EPODOC 10

[SS 28] ..li

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PN - [US2016222282](#) A1 20160804

PR - CA20152880646 20150130

AP - US201615011323 20160129

DT - **

CT - || R141 (A1)

[US5296117](#) A 19940322 [] (DE JAEGER NIKOLAAS

[BE], et al);
[US2006260810](#) A1 20061123 [] (WEAVER JIM D [US], et al);
[WO2016010509](#) A1 20160121 [] (HALLIBURTON ENERGY SERVICES INC [US]);
[US2017190962](#) A1 20170706 [] (RAYSONI NEELAM DEEPAK [IN], et al);
[US3654201](#) A 19720404 [] (MANSOUR SAID K, et al);
[US2010256024](#) A1 20101007 [] (ZHANG KEWEI [CA])

CCI	- C09K8/805
PA	- TRICAN WELL SERVICE LTD [CA]
TI	- PROPPANT TREATMENT WITH POLYMERIZABLE NATURAL OILS
AB	- Described is a proppant composition comprising particulates coated with a polymeric coating comprising a polymerizable natural oil, and a method of making this composition. The polymerizable natural oil is a glyceryl ester that comprises greater than about 40% by weight of polyunsaturated fatty acids, or a derivative of this ester. The proppant composition is made by mixing particulates with a polymerizable natural oil and polymerizing the polymerizable natural oil to coat the surface of the particulates with polymer comprising polymerized natural oil. The composition may be used in a slurry that is used for hydraulic fracturing operations to improve proppant transportation and to mitigate proppant flowback.

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PN	- CA2919277 A1 20160730
PR	- CA20152880646 20150130
AP	- CA20162919277 20160129
DT	- **
CCI	- C09K8/805
PA	- TRICAN WELL SERVICE LTD [CA]
TI	- PROPPANT TREATMENT WITH POLYMERIZABLE NATURAL OILS

AB - Described is a **proppant** composition comprising particulates coated with a polymeric coating comprising a polymerizable natural oil, and a **method** of making this composition. The polymerizable natural oil is a glyceryl ester that comprises greater than about 40% by weight of polyunsaturated fatty acids, or a derivative of this ester. The **proppant** composition is made by mixing particulates with a polymerizable natural oil and polymerizing the polymerizable natural oil to **coat** the surface of the particulates with polymer comprising polymerized natural oil. The composition may be used in a slurry that is used for hydraulic fracturing operations to improve **proppant** transportation and to mitigate **proppant** flowback.

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PN - [TW200948947](#) A 20091201

PR - US20080045632P 20080417

AP - TW20090112629 20090416

DT - I

CCI - [C09K8/805](#)

PA - DOW GLOBAL TECHNOLOGIES INC [US]

TI - Powder coated **proppant** and **method** of making the same

AB - A process for producing a **proppant** particulate substrate having a coating layer thereon including the step of blending a **proppant** particulate substrate with a powder coating composition at a temperature sufficient to cause the powder coating composition to **coat** the **proppant** particulate substrate with a powder coating; and a **proppant** particulate substrate coated by such a process.

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PN - [CN102007193](#) A 20110406

PNFP - CN102007193B B 20130828

PR - WO2009US38005 20090324; US20080045632P 20080417

AP - CN20098113221 20090324

DT	-	I
CCI	-	C09K8/805
PA	- (A)	DOW GLOBAL TECHNOLOGIES INC
	- (B)	DOW WOLFF CELLULOSICS GMBH
TI	- (A B)	Powder coated proppant and method of making the same
AB	- (A)	A process for producing a proppant particulate substrate having a coating layer thereon including the step of blending a proppant particulate substrate with a powder coating composition at a temperature sufficient to cause the powder coating composition to coat the proppant particulate substrate with a powder coating; and a proppant particulate substrate coated by such a process.

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PN	-	MX2010011392 A 20101109
PNFP	-	MX337755 B 20160317
PR	-	US20080045632P 20080417; WO2009US38005 20090324
AP	-	MX20100011392 20090324
DT	-	I
CCI	-	C09K8/805
PA	- (A B)	DOW GLOBAL TECHNOLOGIES INC [US]
TI	- (A B)	POWDER COATED PROPPANT AND METHOD OF MAKING THE SAME.
AB	- (A	B) A process for producing a proppant particulate substrate having a coating layer thereon including the step of blending a proppant particulate substrate with a powder coating composition at a temperature sufficient to cause the powder coating composition to coat the proppant particulate substrate with a powder coating; and

a **proppant** particulate substrate coated by such a process.

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PN - [US2011024129](#) A1 20110203

PNFP - US9206349 B2 20151208

PR - US20090935987 20090324; US20080045632P
20080417; WO2009US38005 20090324

AP - US20090935987 20090324

DT - **

CT - || STSE (B2)
[US6184311](#) B1 20010206 [] (O'KEEFFE LUKE JAMES [GB], et al)
[US6280798](#) B1 20010828 [] (RING JOHN [GB], et al)
[US7135231](#) B1 20061114 [] (SINCLAIR A RICHARD [US], et al)
[US2004154796](#) A1 20040812 [] (NGUYEN PHILLIP D [US])
[US2005019574](#) A1 20050127 [] (MCCRARY AVIS LLOYD [US])
[US2007144736](#) A1 20070628 [] (SHINBACH MADELINE P [US], et al)
[US2007209794](#) A1 20070913 [] (KAUFMAN PHILLIP B [US], et al)
[US2010282468](#) A1 20101111 [] (WILLBERG DEAN MICHAEL [US], et al)
- || R141 (A1)
[US7135231](#) B1 [];
[US2005019574](#) A1 [];
[US6184311](#) B1 [];
[US2007209794](#) A1 [];
[US2004154796](#) A1 [];
[US6280798](#) B1 [];
[US2007144736](#) A1 [];
[US2010282468](#) A1 [];
[US3854533](#) A [];
[US3867986](#) A [];
[US4829100](#) A [];
[US4869960](#) A [];
[US4925901](#) A [];
[US5422183](#) A [];

[US5604184](#) A [];
[US5697440](#) A [];
[US5837656](#) A [];
[US5871049](#) A [];
[US6172011](#) B1 [];
[US6209643](#) B1 [];
[US2003091830](#) A1 [];
[US2003224165](#) A1 [];
[US2005194141](#) A1 [];
[US2006035790](#) A1 []

CCI - [C09K8/805](#)

PA - (B2)
TURAKHIA RAJESH [US]; REYNOLDS JEFFERY L [US]
; JACOB GEORGE [US]; DOW GLOBAL
TECHNOLOGIES LLC [US]

TI - (A1 B2)
POWDER COATED **PROPPANT** AND **METHOD** OF
MAKING THE SAME

AB - (A1 B2)
A process for producing a **proppant** particulate
substrate having a coating layer thereon including
the step of blending a **proppant** particulate
substrate with a powder coating composition at a
temperature sufficient to cause the powder
coating composition to **coat** the **proppant**
particulate substrate with a powder coating; and
a **proppant** particulate substrate coated by such a
process.

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PN - [WO2009129025](#) A1 20091022

PR - US20080045632P 20080417

AP - WO2009US38005 20090324

DT - *, Rep

CT - |EP| ISR (A1)
[WO2008088449](#) A2 20080724 [XP] (DOW GLOBAL
TECHNOLOGIES INC [US], et al)
[XP] 1-9
* the whole document *;
[WO2004092254](#) A2 20041028 [X] (BORDEN CHEM INC
[US], et al)
[X] 1-9

* paragraph [0123] *
 * page 27 - page 50 *
 * paragraph [0177] - paragraph [0181] *
 * paragraph [0225] - paragraph [0231] *
 * paragraph [0263] - paragraph [0266] *;
[US2003224165](#) A1 20031204 [X] (ANDERSON ROBERT WILLIAM [US], et al)
 [X] 1-9
 * paragraph [0025] - paragraph [0028] *
 * paragraph [0036] *
 * paragraph [0057] - paragraph [0120] *;
[US2006035790](#) A1 20060216 [X] (OKELL PATRICK R [US], et al)
 [X] 1-9
 * paragraph [0021] - paragraph [0027] *
 * paragraph [0051] - paragraph [0059] *
 * paragraph [0068] *
 * paragraph [0075] *
 * examples 2, 3 *;
[US7135231](#) B1 20061114 [X] (SINCLAIR A RICHARD [US], et al)
 [X] 1-9
 * paragraph [0060] - paragraph [0065] *
 * paragraph [0067] *
 * paragraph [0072] *

CCI - [C09K8/805](#)

PA - DOW GLOBAL TECHNOLOGIES INC [US]; TURAKHIA RAJESH [US]; REYNOLDS JEFFERY L [US]; JACOB GEORGE [IN]

TI - POWDER COATED **PROPPANT** AND **METHOD** OF MAKING THE SAME

AB - A process for producing a **proppant** particulate substrate having a coating layer thereon including the step of blending a **proppant** particulate substrate with a powder coating composition at a temperature sufficient to cause the powder coating composition to **coat** the **proppant** particulate substrate with a powder coating; and a **proppant** particulate substrate coated by such a process.

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PN - [US5420174](#) A 19950530

PR	- US19920970663 19921102
AP	- US19920970663 19921102
DT	- *
CT	- US3026938 A []; US3127345 A []; US3929191 A []; US3998271 A []; US4055528 A []; US4336842 A []; US4439489 A []; US4443347 A []; US4527627 A []; US4564459 A []; US4585064 A []; US4664819 A []; US4740535 A []; US4741401 A []; US4785884 A []; US4829100 A []; US4888240 A []; US5051454 A []; US5165479 A []
CTNP	- [] Halliburton Services Fracturing Technical Paper, SPE 20640, by L. R. Norman et al, Sep. 23 26, 1990
CCI	- C09K8/805 ; C09K8/685 ; E21B43/267
PA	- HALLIBURTON CO [US]
TI	- Method of producing coated proppants compatible with oxidizing gel breakers
AB	- Methods and compositions are provided for producing a curable resin coated proppant and a crosslinked aqueous gel carrier fluid system. The resin coated proppant and crosslinked aqueous gel carrier fluid system provided may be controllable thinned or "broken" by the addition of a quantity of oxidizing breaker similar to the quantity of oxidizing breaker sufficient to break the carrier fluid in traditional non-resin coated proppant and crosslinked aqueous gel carrier fluid system. A resole resin is the film forming material use to coat the proppant .

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PN	- US5199491 A 19930406
PR	- US19910754550 19910904
AP	- US19910754550 19910904
DT	- *
CT	- US2867278 A []; US3976135 A []; US4113014 A []; US4785884 A []; US4920192 A []; US5048608 A []

CCI - [C09K8/5755](#) ; [C09K8/62](#) ; [E21B43/267](#)

PA - ATLANTIC RICHFIELD CO [US]

TI - **Method** of using nitrile derivative for sand control

AB - A composition and **method** for consolidating **proppant** or gravel for propping fractures about, or for gravel packs for sand control in, wells in subterranean formations characterized by an improvement in which there is used a combination of reactants, including a capped diisocyanate that will produce polyurethane and **coat** the catalyst in situ. Also disclosed are specific examples of satisfactory frac fluids, diluents and catalysts for both a specially designed one-pass system and, preferably, a two-pass system of putting and consolidating the **proppant** in a fracture.

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PN - [US5256729](#) A 19931026

PR - US19930007472 19930122; US19910754550 19910904

AP - US19930007472 19930122

DT - *

CT - [US2867278](#) A []; [US3531425](#) A [];
[US3652507](#) A []; [US3976135](#) A [];
[US4113014](#) A []; [US4785884](#) A [];
[US4920192](#) A []; [US5048608](#) A []

CCI - [C09K8/805](#) ; [C09K8/5755](#) ; [C09K8/62](#) ; [E21B43/267](#)

PA - ATLANTIC RICHFIELD CO [US]

TI - Nitrile derivative for sand control

AB - A composition and **method** for consolidating **proppant** or gravel for propping fractures about, or for gravel packs for sand control in, wells in subterranean formations characterized by an improvement in which there is used a combination of reactants, including a capped diisocyanate that will produce polyurethane and **coat** the catalyst in situ. Also disclosed are specific examples of satisfactory frac fluids, diluents and catalysts for both a specially designed one-pass

system and, preferably, a two-pass system of putting and consolidating the **proppant** in a fracture.

[SS 28]