

Title (en)
METHOD FOR REDUCING FRICTION IN THE TRANSPORT OF ETHANOL

Title (de)
VERFAHREN ZUR REIBUNGSREDUZIERUNG BEIM TRANSPORT VON ÄTHANOL

Title (fr)
PROCEDE DE REDUCTION DE FRICTION DANS LE TRANSPORT DE L'ETHANOL

Publication
EP 2947134 A1 20151125 (FR)

Application
EP 15168058 A 20150519

Priority
FR 1454595 A 20140521

Abstract (en)
[origin: CN105085751A] This invention involves a process for reducing friction in ethanol during its transport through pipelines. This process involves combining ethanol with a polymer-based composition, characterised in that the polymer is obtained from at least 50 mol % of at least one monomer selected from the group comprising N-substituted acrylamides, N-substituted methacrylamides, N,N-substituted acrylamides, N,N-substituted methacrylamides, substituted acrylates and substituted methacrylates.

Abstract (fr)
La présente invention concerne un procédé pour réduire la friction de l'éthanol pendant son transport dans une canalisation. Ce procédé consiste à mettre l'éthanol en contact avec une composition à base de polymère, caractérisé en ce que le polymère est obtenu à partir d'au moins 50 mol % d'au moins un monomère choisi dans le groupe comprenant les acrylamide N-substitués, les méthacrylamide N-substitués, les acrylamide N,N-substitués, les méthacrylamide N,N-substitués, les acrylate substitués, et les méthacrylate substitués.

IPC 8 full level
C10L 1/02 (2006.01); **C10L 1/196** (2006.01); **C10L 1/236** (2006.01)

CPC (source: EP US)
C10L 1/023 (2013.01 - EP US); **C10L 1/1963** (2013.01 - EP US); **C10L 1/2364** (2013.01 - EP US); **C10M 151/02** (2013.01 - US); **C10L 2200/0469** (2013.01 - EP US); **C10L 2230/14** (2013.01 - EP US); **C10L 2250/04** (2013.01 - EP US)

Citation (applicant)
• WO 2013160228 A1 20131031 - EVONIK OIL ADDITIVES GMBH [DE], et al
• WO 2013123288 A1 20130822 - BAKER HUGHES INC [US]
• WO 2013171319 A1 20131121 - DUPONT NUTRITION BIOSCI APS [DK]
• EP 2383327 A1 20111102 - NOF CORP [JP]
• BR PI0900355 A2 20110816 - UNICAMP [BR]

Citation (search report)
• [X] US 4637418 A 19870120 - KARL CURTIS L [US]
• [A] US 2005049327 A1 20050303 - JOVANCICEVIC VLADIMIR [US], et al
• [A] US 2010029843 A1 20100204 - MILLIGAN STUART N [US]
• [A] BR PI0900355 A2 20110816 - UNICAMP [BR]

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)
EP 2947134 A1 20151125; **EP 2947134 B1 20171011**; BR 102015011015 A2 20160105; BR 102015011015 B1 20220201; CN 105085751 A 20151125; CN 105085751 B 20200110; FR 3021327 A1 20151127; FR 3021327 B1 20160603; US 2015337232 A1 20151126; US 9822325 B2 20171121

DOCDB simple family (application)
EP 15168058 A 20150519; BR 102015011015 A 20150513; CN 201510249523 A 20150515; FR 1454595 A 20140521; US 201514713532 A 20150515