

Title (en)

ON-THE-FLY ACID BLENDER WITH SAMPLING EQUIPMENT

Title (de)

ON-THE-FLY-SÄUREMISCHER MIT PROBENENTNAHMEAUSRÜSTUNG

Title (fr)

MÉLANGEUR D'ACIDE À LA VOLÉE AVEC ÉQUIPEMENT D'ÉCHANTILLONNAGE

Publication

**EP 2276905 A2 20110126 (EN)**

Application

**EP 09717529 A 20090304**

Priority

- GB 2009000606 W 20090304
- US 4422808 A 20080307

Abstract (en)

[origin: US2009223664A1] Improved methods and systems of blending and analyzing well treatment fluids at a well site are disclosed. A first centrifugal pump pumps a first component of the well treatment fluid into a pipe and a first valve controls the flow of the first component into the pipe. A second centrifugal pump pumps a second component of the well treatment fluid into a pipe and a second valve controls the flow of the second component into the pipe. The pumps and the valves are then controlled in order to control the ratio of the first and second component of the well treatment fluid as they are delivered to the pipe and a sampling device is used to analyze the well treatment fluid.

IPC 8 full level

**E21B 21/06** (2006.01)

CPC (source: EP US)

**E21B 21/062** (2013.01 - EP US)

Citation (search report)

See references of WO 2009109758A2

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**US 2009223664 A1 20090910**; AT E555272 T1 20120515; AU 2009220989 A1 20090911; AU 2009220989 B2 20130711; BR PI0909355 A2 20150929; CA 2717490 A1 20090911; CA 2717490 C 20130430; DK 2276905 T3 20120723; EP 2276905 A2 20110126; EP 2276905 B1 20120425; MX 2010009808 A 20100930; WO 2009109758 A2 20090911; WO 2009109758 A3 20091119

DOCDB simple family (application)

**US 4422808 A 20080307**; AT 09717529 T 20090304; AU 2009220989 A 20090304; BR PI0909355 A 20090304; CA 2717490 A 20090304; DK 09717529 T 20090304; EP 09717529 A 20090304; GB 2009000606 W 20090304; MX 2010009808 A 20090304