

Title (en)

Gravel pack and sand disposal device

Title (de)

Kiespackungs- und Sandentsorgungsvorrichtung

Title (fr)

Filtre à gravier et dispositif d'élimination de sable

Publication

**EP 2570586 A1 20130320 (EN)**

Application

**EP 12184724 A 20120917**

Priority

US 201161632403 P 20110916

Abstract (en)

An apparatus and method allow gravel pack slurry to be placed in a borehole annulus from the toe towards the heel to reduce the pressure acting upon the heel of the borehole during the gravel placement operation. By reducing the pressure on the heel, the gravel pack slurry may be placed in longer sections of the borehole in a single operation. Additionally, excess slurry in the inner string can be disposed in the borehole annulus around the shoe track of the apparatus, and fluid returns can flow up the apparatus through a bypass.

IPC 8 full level

**E21B 33/124** (2006.01); **E21B 43/04** (2006.01); **E21B 43/08** (2006.01); **E21B 47/09** (2012.01)

CPC (source: EP)

**E21B 33/124** (2013.01); **E21B 43/04** (2013.01); **E21B 43/045** (2013.01); **E21B 43/08** (2013.01); **E21B 47/09** (2013.01)

Citation (applicant)

- US 91398110 A 20101028
- US 201213345500 A 20120106

Citation (search report)

- [X] US 7331388 B2 20080219 - VILELA ALVARO JOSE [BR], et al
- [X] US 2009095471 A1 20090416 - GUIGNARD THIBAUT [US], et al
- [X] US 2003037925 A1 20030227 - WALKER DAVID JOSEPH [US], et al
- [X] US 4105069 A 19780808 - BAKER EUGENE E

Cited by

RU2599751C1; US10082007B2; WO2016012782A1; WO2022010668A1

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 2570586 A1 20130320**; **EP 2570586 B1 20151125**; AU 2012216843 A1 20130404; AU 2012216843 B2 20150903; CA 2789859 A1 20130316; CA 2789859 C 20161220; DK 2570586 T3 20160307

DOCDB simple family (application)

**EP 12184724 A 20120917**; AU 2012216843 A 20120914; CA 2789859 A 20120914; DK 12184724 T 20120917