

Title (en)

PUMP SYSTEM AND METHOD FOR PUMPING MULTI-PHASE COMPOUNDS

Title (de)

PUMPSYSTEM UND VERFAHREN ZUR FÖRDERUNG VON MEHRPHASENGEMISCHEN

Title (fr)

SYSTÈME DE POMPE ET PROCÉDÉ DESTINÉ À POMPER DES MÉLANGES POLYPHASÉS

Publication

**EP 2134971 B1 20180110 (DE)**

Application

**EP 08716841 A 20080214**

Priority

- EP 2008051767 W 20080214
- EP 07103800 A 20070308
- EP 08716841 A 20080214

Abstract (en)

[origin: WO2008107276A1] The invention relates to a pump system (1) for delivering multi-phase mixtures, the pump system comprising a pump device (3) for multi-phase mixtures having at least one fluid phase and at least one gaseous phase. The pump device (3) has one or more axial compression stages, each having an axial impeller, and one or more delivery stages with one radial impeller each, the stages being provided subsequent to the axial compression stage or stages, wherein the pump system (1) additionally includes a separator (2) on the inlet side of the pump device (3) for separating a portion of the gaseous phase, and wherein the pump device (3) is configured for delivery heights greater than 50 m.

IPC 8 full level

**F04D 31/00** (2006.01); **E21B 43/34** (2006.01)

CPC (source: EP US)

**F04D 31/00** (2013.01 - EP US); **Y10S 415/901** (2013.01 - EP US)

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2008107276 A1 20080912**; BR PI0808047 A2 20140624; BR PI0808047 B1 20190827; EP 2134971 A1 20091223; EP 2134971 B1 20180110; NO 2134971 T3 20180609; US 2010098525 A1 20100422; US 8858154 B2 20141014

DOCDB simple family (application)

**EP 2008051767 W 20080214**; BR PI0808047 A 20080214; EP 08716841 A 20080214; NO 08716841 A 20080214; US 52952408 A 20080214