Title (en)

RECIPROCATING PUMP WITH IMPROVED FLUID CYLINDER CROSS-BORE GEOMETRY

Title (de)

KOLBENPUMPE MIT VERBESSERTER FLUIDZYLINDERQUERBOHRUNGSGEOMETRIE

Title (fr)

POMPE ALTERNATIVE PRÉSENTANT UNE MEILLEURE GÉOMÉTRIE D'ALÉSAGE TRANSVERSAL DE CYLINDRE DE FLUIDE

Publication

EP 3146210 B1 20200408 (EN)

Application

EP 15796267 A 20150522

Priority

- US 201462002593 P 20140523
- US 2015032300 W 20150522

Abstract (en)

[origin: WO2015179839A1] A reciprocating pump comprising a fluid end housing having a number of plunger sections, each of which includes a plunger bore within which a plunger is slidably received, a suction bore within which a suction valve is positioned, a discharge bore within which a discharge valve is positioned, and a cross bore chamber which is located between said bores and is configured as a surface of revolution. Each of the bores intersects the cross-bore chamber to thereby define a respective cross curve which is spatially separated from each adjacent cross curve. In this manner, the cross-bore chamber defines a single, contiguous surface which extends around and between all of said cross curves.

IPC 8 full level

F04B 53/00 (2006.01); **F04B 53/10** (2006.01); **F04B 53/16** (2006.01); **F04B 53/22** (2006.01)

CPC (source: EP US)

F04B 19/22 (2013.01 - US); **F04B 53/007** (2013.01 - EP US); **F04B 53/10** (2013.01 - EP US); **F04B 53/1025** (2013.01 - EP); **F04B 53/1032** (2013.01 - EP US); **F04B 53/14** (2013.01 - US); **F04B 53/16** (2013.01 - EP US); **F04B 53/162** (2013.01 - EP); **F04B 53/22** (2013.01 - EP US)

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DOCDB simple family (application)

US 2015032300 W 20150522; CA 2949708 A 20150522; CN 201580034503 A 20150522; EP 15796267 A 20150522; MX 2016015372 A 20150522; US 201515311504 A 20150522