

Title (en)

Mud reactor pump for simultaneous transport of solid material, liquids, steam and gases

Title (de)

Schlammreaktorpumpe zur gleichzeitigen Förderung von Feststoffen, Flüssigkeiten, Dämpfen und Gasen

Title (fr)

Pompe de réacteur à boue destinée au transport simultané de matières solides, de liquides, de vapeurs et de gaz

Publication

EP 2090783 A3 20091125 (DE)

Application

EP 08010657 A 20080612

Priority

DE 102008009647 A 20080218

Abstract (en)

[origin: EP2090783A2] The pump has a liquid ring-vacuum pump that is joined with characteristics of a radial wheel pump. A solid and evaporating fluid are transported with guiding devices in a partition wall (4) by forming a stage partition wall through a borehole or slot in a periphery of a stage (8) and center slots in another stage. A bearing and a seal are arranged on both sides of the reactor pump with a specific low pressure for suction and outlet sides of the reactor pump in a cooling circuit. Loop reactors are attached to an input and an output of the reactor the pump.

IPC 8 full level

B01F 25/60 (2022.01); **F04C 7/00** (2006.01); **F04C 13/00** (2006.01); **F04C 19/00** (2006.01); **F04D 1/00** (2006.01)

CPC (source: EP US)

F04C 19/00 (2013.01 - EP US); **F04C 25/00** (2013.01 - EP US); **F04C 2210/24** (2013.01 - EP US); **F04C 2220/20** (2013.01 - EP US)

Citation (search report)

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- [Y] US 4074954 A 19780221 - ROBERTS WILLIAM WALTER
- [X] WO 9515439 A1 19950608 - KVAERNER PULPING TECH [SE], et al
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Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 08010657 A 20080612; CA 2715987 A 20090114; DE 102008009647 A 20080218; DE 2009000039 W 20090114; JP 2010546208 A 20090114; KR 20107021170 A 20090114; MX 2010009093 A 20090114; RU 2010138287 A 20090114; US 91812409 A 20090114