

Title (en)

HIGH PRESSURE SHEAR NOZZLE FOR INLINE CONDITIONING OF DRILLING MUD

Title (de)

HOCHDRUCK-SCHERUNGSDÜSE ZUR INTERNEN BEARBEITUNG EINES BOHRSCHLAMMS

Title (fr)

BUSE DE CISAILLEMENT À PRESSION ÉLEVÉE POUR CONDITIONNEMENT EN LIGNE DE BOUES DE FORAGE

Publication

EP 2553208 A1 20130206 (EN)

Application

EP 11780971 A 20110329

Priority

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- US 2011030309 W 20110329

Abstract (en)

[origin: WO2011142894A1] A system for conditioning drilling fluid includes a conditioning device having a first conduit configured to receive the drilling fluid, a flow restriction disposed adjacent the first conduit, the flow restriction comprising a fluid inlet and a fluid outlet, an impact plate disposed downstream of the flow restriction, a first chamber disposed between the flow restriction and the impact plate, and a second chamber disposed downstream of the impact plate, wherein the first chamber is fluidly connected to the second chamber. A method for conditioning drilling fluid using a conditioning device, includes pumping a drilling fluid through a flow restriction, accelerating the drilling fluid into a mixing chamber, subjecting the drilling fluid to elongational shearing, decelerating the drilling fluid against an impact plate, subjecting the drilling fluid to impact shearing, and emptying drilling fluid from the mixing chamber.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2011142894A1

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