

Title (en)

METHOD AND DEVICE FOR DETERMINATION OF GAS IN A LIQUID PUMPED THROUGH A PUMPING DEVICE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG VON GAS IN EINER DURCH EINE PUMPVORRICHTUNG GEPUMPTEN FLÜSSIGKEIT

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR DÉTERMINER LA PROPORTION D'UN GAZ DANS UN LIQUIDE POMPÉ PAR UN DISPOSITIF DE POMPAGE

Publication

EP 2715134 A2 20140409 (DE)

Application

EP 12723617 A 20120523

Priority

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- US 201161491437 P 20110531
- EP 2012002201 W 20120523

Abstract (en)

[origin: DE102011105824B3] The method involves conveying mixture of gas and liquid by a pump i.e. piston diaphragm pump (10), where the mixture is subjected to volume- and pressure change. Operational parameters of the pump are detected, and gas concentration is determined from the parameters under consideration of system compressibility. The compressibility in the pump is determined by regulating start pressure, receiving pump position and pressure sensor value and determining spring rate based on value pairs and identical sets of the determined spring rate with system compressibility.

IPC 8 full level

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CPC (source: EP US)

A61M 5/16809 (2013.01 - EP US); **F04B 49/08** (2013.01 - EP US); **G01N 7/00** (2013.01 - EP US); **F04B 2205/01** (2013.01 - EP US); **F04B 2205/03** (2013.01 - EP US); **F04B 2205/05** (2013.01 - EP US)

Citation (search report)

See references of WO 2012163497A2

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