

Title (en)

Gas ballast device for a multistage positive displacement pump

Title (de)

Gasballasteinrichtung für eine mehrstufige Verdrängerpumpe

Title (fr)

Dispositif de ballast de gaz pour une pompe volumétrique à plusieurs étages

Publication

EP 0972938 B1 20040303 (DE)

Application

EP 99112217 A 19990625

Priority

DE 19831123 A 19980711

Abstract (en)

[origin: US6071085A] A gas ballast system for a multi-stage positive displacement pump in which a first stage includes at least one positive displacement pump stage, is equipped with an inlet valve and an outlet valve, and is connected with the following stage by an intermediate vacuum chamber, with the gas ballast system including a first conduit for supplying gas into the intermediate vacuum chamber, and a second conduit for supplying gas from the intermediate vacuum chamber into a pump chamber of the first stage or to a suction region of the first stage.

IPC 1-7

F04B 45/033; **F04B 37/14**; **F04B 25/00**; **F04B 37/20**

IPC 8 full level

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CPC (source: EP US)

F04B 25/005 (2013.01 - EP US); **F04B 37/14** (2013.01 - EP US); **F04B 37/20** (2013.01 - EP US); **F04B 2205/061** (2013.01 - EP US); **F04C 2220/50** (2013.01 - EP US)

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