

Title (en)

METHOD AND APPARATUS FOR CONTROLLING FLUID FLOW

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STEUERUNG EINES FLÜSSIGKEITSFLUSSES

Title (fr)

MÉTHODE ET APPAREIL DE CONTRÔLE DE L'ÉCOULEMENT DE FLUIDE

Publication

EP 2016286 A2 20090121 (EN)

Application

EP 07794396 A 20070427

Priority

- US 2007010277 W 20070427
- US 41314306 A 20060427

Abstract (en)

[origin: US2007253832A1] A method and apparatus for controlling bi-directional fluid flow. The apparatus has a pump that operates in a continuous pump cycle having a pressure phase and a vacuum phase. A conduit connects a common pump port to a utility port. An electrically-controlled valve regulates air flow through the conduit. The valve operates between a first position isolating the pump and the utility port, and a second position connecting the pump and the utility port in fluid communication. A detector continuously detects and communicates a signal identifying whether the pump is operating in the pressure or vacuum phase of the pump cycle. A controller uses the detector signal to synchronize actuation of the valve with the pump cycle to generate either continuous positive or continuous negative pressure at the utility port.

IPC 8 full level

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