

Title (en)

PUMP CONTROL BASED ON BUBBLE DETECTION

Title (de)

PUMPENSTEUERUNG BASIEREND AUF BLASENDETEKTION

Title (fr)

COMMANDE DE POMPE BASÉE SUR LA DÉTECTION DE BULLES

Publication

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Application

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Abstract (en)

[origin: EP4036407A1] A pump system (110) includes a drive motor (240), a pump head (222) that receives tubing, and a controller (260) configured to control a rotation of the drive motor (240) to move a liquid within the tubing from an inlet to an outlet. A bubble sensor (112) is coupled to the tubing downstream from the outlet and configured to send a signal to the controller (160) in response to presence of a gas bubble within the tubing. The controller (160) is configured to: determine a quantity of bubbles detected based on the signal; determine an alert in response to the quantity of bubbles detected exceeding a threshold; and stop the drive motor after a safe operating time from the alert. The threshold and the safe operating time are based, at least in part, on a characteristic of the tubing. The corresponding method of operating a pump system (110) is also disclosed.

IPC 8 full level

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