

Title (en)

Flow measurement and monitoring system for positive-displacement pumps and pumps equipped with this system.

Title (de)

Förderstrommessungs- und Überwachungssystem für Verdrängerpumpen und Pumpen mit diesem System.

Title (fr)

Système de mesure de débit et de surveillance pour pompes à déplacement positif et pompes munies de ce système.

Publication

EP 0264148 A1 19880420 (EN)

Application

EP 87201707 A 19870909

Priority

FR 8614088 A 19861008

Abstract (en)

A system for measuring the flow rate of fluids discharged from positive-displacement pumps, and real-time monitoring of these pumps. The system comprises pressure and proximity sensors and a microcomputer. The pressure sensors transmit the pressure in the discharge chambers of the pumps to the microcomputer in the form of signals. The proximity sensors provide a reference in the operating cycle of the pumps. The computer monitors sensor status and processes the data received from the sensors to provide monitoring of the pump. It transmits the results via a serial communications bus. In the event of a malfunction, an alarm is transmitted.

IPC 1-7

F04B 51/00

IPC 8 full level

F04B 51/00 (2006.01)

CPC (source: EP)

F04B 51/00 (2013.01); **F04B 2201/0201** (2013.01); **F04B 2205/03** (2013.01)

Citation (search report)

[X] EP 0183295 A1 19860604 - SCHLUMBERGER CIE DOWELL [FR]

Cited by

US5111690A; US5109692A; DE4209679A1; EP2723982A4; US4976144A; AU632759B2; EP0487507A3; EA015138B1; EP0751446A3; US5988986A; DE4040919A1; US5168753A; EP0508823A1; US5197328A; US9243628B2; US10378537B2; WO2006084468A1; WO9219867A1; WO2007072385A3; WO9002066A1; WO2008018040A3; WO9217339A1; DE102020127285B3; US8366402B2; US11009424B2; WO2020048947A1

Designated contracting state (EPC)

DE GB IT NL

DOCDB simple family (publication)

EP 0264148 A1 19880420; **EP 0264148 B1 19910417**; BR 8705330 A 19880524; CN 1021129 C 19930609; CN 87106757 A 19880810; DE 3769429 D1 19910523; FR 2605059 A1 19880415; FR 2605059 B1 19910208; JP S63105291 A 19880510; NO 874201 D0 19871007; NO 874201 L 19880411; SU 1556547 A3 19900407

DOCDB simple family (application)

EP 87201707 A 19870909; BR 8705330 A 19871007; CN 87106757 A 19871007; DE 3769429 T 19870909; FR 8614088 A 19861008; JP 25176187 A 19871007; NO 874201 A 19871007; SU 4203432 A 19871006