(12) UK Patent Application (19) GB (11) 2 426 835

(43) Date of Printing by UK Office

06.12.2006

(21) Application No:

0618944.3

(22) Date of Filing:

01.02.2005

(30) Priority Data:

(31) 10796723

(32) 09.03.2004

(33) US

(86) International Application Data: PCT/US2005/003613 En 01.02.2005

(87) International Publication Data:

WO2005/093304 En 06.10.2005

(71) Applicant(s):

MKS Instruments Inc (Incorporated in USA - Massachusetts) 90 Industrial Way, Wilmington, MA 01887, **United States of America**

(72) Inventor(s):

Ali Shajii

Siddharth Nagarkatti

(continued on next page)

G05D 16/20 (2006.01)

G05D 7/01 (2006.01)

G05D 7/06 (2006.01)

(52) UK CL (Edition X): G3R RBF RBG29

(56) Documents Cited by ISA:

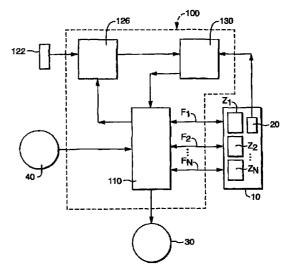
US 5980361 A US 5551770 A US 5916016 A US 20040118403 A1

(58) Field of Search by ISA:

Other: US: 137/14, 487.5; Database: WEST

(54) Abstract Title: System and method for controlling pressure in remote zones

(57) A system for controlling fluid flow through i lines, wherein the i lines are connectable through tubing to i zones, respectively, and wherein i = 1, 2, ..., N. The system includes at least one valve and a pressure transducer in each of the i lines, a control device for controlling the valves, and a zone pressure estimator. The zone pressure estimator is connected to the pressure transducers and is programmed to calculate an estimated pressure in each the i zones and provide the estimated pressures to the control device.



GB 2426835 A continuation

(74) Agent and/or Address for Service:
McDermott Will & Emery UK LLP
7 Bishopsgate, LONDON, EC2N 3AR,
United Kingdom