

Title (en)

Method and equipment for controlling a multipoint fluid distribution system

Title (de)

Verfahren und Vorrichtung zur Steuerung eines Mehrpunktsystems zur Verteilung von Flüssigkeit

Title (fr)

Procédé et équipement pour commander une système multipoint de distribution de fluide

Publication

EP 2562424 A2 20130227 (EN)

Application

EP 12382344 A 20120907

Priority

EP 12382344 A 20120907

Abstract (en)

It comprises taking pressure measurements in a point previous to the consumption points by means of a piece of control equipment and performing the following steps in sequence: a) acquiring a successive series of supply pressure values (P_i) measured in said previous point; b) varying the pump rotating speed in response to a pressure variation detected in said previous point; c) detecting that at least two of said pressure values (P_{i1} , P_{i2}) measured in said previous point change (increase or decrease) and obtaining a curve of demand (10) by calculating the coefficients of a known mathematical function descriptive of said curve of demand, making said coefficient calculations from said measured pressure values (P_{i1} , P_{i2}) and of corresponding calculated flow rate values; d) determining a consumption point (12) by intersecting the curve of demand with the y-axis and e) adopting a pump rotating speed providing a pump setpoint pressure, depending on said consumption point (12) determined in step d), restarting steps b) to e) in the event of another pressure variation in the demand.

IPC 8 full level

F04D 15/00 (2006.01)

CPC (source: EP)

F04D 15/0066 (2013.01)

Citation (applicant)

- US 2005095150 A1 20050505 - LEONE MICHELE [IT], et al
- US 6464464 B2 20021015 - SABINI EUGENE P [US], et al
- EP 1286240 B1 20040811 - VOGEL PUMPEN [AT]
- US 5540555 A 19960730 - CORSO ANTHONY B [US], et al

Cited by

DE102014110911A1; DE102014222390A1; WO2016016212A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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