

Title (en)

METHOD FOR IDENTIFYING BLOCKAGES IN SPRINKLER DEVICES AND APPARATUS FOR CARRYING OUT THIS METHOD

Title (de)

VERFAHREN ZUM ERKENNEN VON VERSTOPFUNGEN VON BEDÜSUNGSEINRICHTUNGEN SOWIE VORRICHTUNG ZUR DURCHFÜHRUNG DIESES VERFAHRENS

Title (fr)

PROCÉDÉ DE DÉTECTION DE COLMATAGES DANS DES DISPOSITIFS À TUYÈRES ET DISPOSITIF POUR EXÉCUTER CE PROCÉDÉ

Publication

EP 2100005 A1 20090916 (DE)

Application

EP 07845272 A 20071130

Priority

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Abstract (en)

[origin: WO2008070884A1] In a method for identifying blockages in sprinkler devices (2) on heading and mining machines, the pressure and the flow rate of the medium to be fed to the sprinkler device are measured, the measured values are fed to an evaluation circuit and compared with the desired characteristic curve (12), which is measured for the sprinkler device, for the dependence of its flow rates on the operating pressure of a fault-free sprinkler device. Deviations from the desired characteristic curve of a fault-free sprinkler device are displayed and/or used as control signals for driving the heading and/or mining machine. The apparatus for carrying out the method is characterized in that a pressure sensor (4) and a flow rate sensor (7) for the medium which is to be fed to the sprinkler device are provided, the measured values from these sensors being passed to an evaluation circuit via signal lines; in that the evaluation circuit contains a memory for desired characteristic curves (12, 18) of the pressure-dependent profile of the flow rates of a fault-free sprinkler device and provides characteristic maps for the permissible deviation from the desired characteristic curve, and in that the evaluation circuit is connected to a display apparatus and/or a control element of the drive of the heading and mining machine.

IPC 8 full level

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