Title (en)

FIRE EXTINGUISHING INSTALLATION

Title (de)

FEUERLÖSCHANLAGE

Title (fr)

INSTALLATION D'EXTINCTION D'INCENDIE

Publication

EP 2468364 A1 20120627 (DE)

Application

EP 10015943 A 20101222

Priority

EP 10015943 A 20101222

Abstract (en)

The fire-fighting system comprises fighting nozzles (1) such as sprinkler nozzles, a pipeline system and fittings. The pipeline system is present in communication with a pipe system (2, 3) for heating or cooling, where an increase in water consumption in the pipe systems leads to triggering of an alarm (8). A water supply occurs in the pipe system with the triggering of the alarm. An external pressure generator or a pump urges water to the fighting nozzles with the triggering of the alarm. The increased water consumption is recorded in the pipe system on the basis of a pressure drop. The fire-fighting system comprises fighting nozzles (1) such as sprinkler nozzles, a pipeline system and fittings. The pipeline system is present in communication with a pipe system (2, 3) for heating or cooling, where an increase in water consumption in the pipe systems leads to triggering of an alarm (8). A water supply occurs in the pipe system with the triggering of the alarm. An external pressure generator or a pump urges water to the fighting nozzles with the triggering of the alarm. The increased water consumption is: recorded in the pipe system on the basis of a pressure drop, which is registered with a pressure switch; and determined in the pipe system by water level check in a heating or cooling system (18). A float and a float switch are arranged for the water level check. The pipe network leads from both sides of the pipe network to the nozzles. The alarm opens a valve of the water supply from the heating or cooling system to the pipelines, and closes the valves of the pipelines in the region of the heating or cooling system so that water of the water supply directly passes to the nozzles. A pressure loss of the water circulating in the heating or cooling system is monitored by a pressure gauge (11). A quenching fluid is fed to the water of the heating-or cooling system in case of alarm. Pumps are disposed for conveying water and for increasing the pressure in the piping system. The fighting nozzles are arranged on the heating or cooling system.

Abstract (de)

Die Erfindung betrifft eine Feuerlöschanlage, bestehend aus Löschdüsen, insbesondere Sprinklerdüsen, dem Rohrleitungssystem und Armaturen, bei der ein Rohrsystem (2) für die Löschdüsen (1) mit einem Rohrsystem (3) für eine Heizung oder Kühlung (4) in Verbindung steht und eine Erhöhung des Wasserverbrauchs in den Rohrsystemen (2, 3) zum Auslösen eines Alarms (8) führt. Die erfindungsgemäße Feuerlöschanlage hat den Vorteil, daß bei niedrigen Material- und Betriebskosten und ohne Installation eines kompletten Rohrleitungssystems mit Vorratsbehälter und Armaturen ein anderweitig genutztes Rohrleitungssystem zuverlässig und kostengünstig nutzbar ist.

IPC 8 full level

A62C 35/60 (2006.01); **A62C 35/68** (2006.01)

CPC (source: EP)

A62C 35/605 (2013.01); **A62C 35/68** (2013.01)

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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

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DOCDB simple family (application)

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