

Title (en)

METHOD AND DEVICE FOR THE EARLY DETECTION OF FIRE AND FOR FIGHTING FIRE INDOORS AND OUTDOORS, ESPECIALLY IN LIVING AREAS, OF HOMES AND BUILDINGS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM FRÜHERKENNEN UND BEKÄMPFEN VON FEUER IM INNEN- UND AUßENBEREICH, INSBESONDERE WOHNBEREICH, VON HÄUSERN UND GEBÄUDEN

Title (fr)

PROCEDE ET DISPOSITIF POUR DETECTER DE MANIERE PRECOCE ET LUTTER CONTRE LE FEU DANS DES ZONES INTERIEURES ET EXTERIEURES, NOTAMMENT DANS LA ZONE D'HABITATION DE MAISONS ET DE BATIMENTS

Publication

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Application

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Abstract (en)

[origin: US6801132B2] The invention relates to a method and device for the early detection of fire and for fighting fire indoors and outdoors, especially in living areas, of homes and buildings. According to the invention, a central freely programmable domestic control block comprising an intelligent bus system, sensors, and actuators controls, regulates and monitors the domestic technical system and, at the same time, sensors detect the direct and indirect fire characteristics, which are monitored by a separate check, control and regulating block that activates an extinguishing agent supply system when a set value has been exceeded. The aim of the invention is to improve a method and device of the aforementioned type such that the extinguishing agent is variably and selectively discharged with a high degree of efficacy by the provision of a system which can be modularly integrated in the security design of a building. The extinguishing agent is variably and selectively discharged according to the origin and progression of the fire while simultaneously minimizing the water consumption, decreasing the damage caused by water in the case of a fire, and increasing the economic efficiency. To this end, the invention provides that the check, control and regulating block interactively communicates with the control block of the domestic technical system, and that an extinguishing agent supply system is actuated which integrates all available extinguishing agent sources of a house and initiates the discharge of extinguishing agent with a variable quantity and distribution according to the origin and progression of the fire.

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