

Title (en)
ARRANGEMENT FOR MONITORING AND EARLIEST DETECTION OF FIRE FOR A PLURALITY OF POTENTIALLY FLAMMABLE OR POTENTIALLY EXPLOSIVE VESSELS AND/OR HOUSINGS

Title (de)
ANORDNUNG ZUR ÜBERWACHUNG UND BRANDFRÜHSTERKENNUNG FÜR MEHRERE BRAND- UND/ODER EXPLOSIONSGEFÄHRDETE GEFÄSSE UND/ODER GEHÄUSE

Title (fr)
SYSTÈME DE SURVEILLANCE ET DE DÉTECTION PRÉCOCE D'INCENDIE POUR PLUSIEURS RÉCIPIENTS ET/OU BOÎTIERS À RISQUE D'INCENDIE ET/OU D'EXPLOSION

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EP 13807894 A 20131014

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Abstract (en)
 [origin: WO2014059959A1] The invention relates to an arrangement for monitoring and earliest detection of fire for a plurality of potentially flammable or potentially explosive vessels and/or housings, such as switch and distribution cabinets and electrical engineering apparatus, IT cabinets etc. The invention addresses the problem of developing an arrangement for monitoring and earliest detection of fire for potentially flammable or potentially explosive vessels and/or housings, which for a reasonable system cost can be used as an alternative to the aspirating smoke detectors currently used in the art, for example, in the switch and server cabinets of computer centres (e.g. in banks etc.), and which at the same time ensures a selective monitoring of a substantially higher number of "monitoring points" (e.g. server cabinets) that is much cheaper and more precise and also substantially more reliable in respect of false alarms using just one evaluating unit, combined with markedly reduced expenditure on production, installation, servicing and maintenance, high versatility and high availability, even during servicing and also during work to extend the overall system. The arrangement according to the invention for monitoring and earliest detection of fire for a plurality of potentially flammable or potentially explosive vessels (1) and/or housings using laser detectors and/or multi-criteria smoke detectors (2) is characterised inter alia in that all smoke detectors (2) used for monitoring are connected to one another via a ring bus (18), and in that the smoke detectors (2) used in the arrangement are arranged in pairs, either in a duo-detector module (3) or in two mono-detector modules (4) associated with one another, and are always interconnected in two-detector dependency, and in that said duo-detector modules (3) and/or mono-detector modules (4) arranged in each of the vessels (1) to be monitored at the locations significant for fire detection are connected as bus participants via a ring bus (18) to an evaluating unit (19) undertaking the energy supply of the bus system.

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