Title (en)

SMOKE DETECTOR CHAMBER ARCHITECTURE AND RELATED METHODS

Title (de)

RAUCHDETEKTORKAMMERARCHITEKTUR UND ZUGEHÖRIGE VERFAHREN

Title (fr)

ARCHITECTURE DE CHAMBRE DE DÉTECTEUR DE FUMÉE ET PROCÉDÉS ASSOCIÉS

Publication

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Application

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Abstract (en)

Inter alia, a smoke chamber for a smoke detector is disclosed. The smoke chamber comprises a housing, wherein an electromagnetic emitter emits electromagnetic radiation into the housing and an electromagnetic sensor senses electromagnetic radiation within the housing. The smoke chamber further comprises a dust collector positioned below a center point of where the emitted electromagnetic radiation intersects a field of view of the electromagnetic sensor within the housing, wherein the dust collector is a recessed portion of the housing extending away from the center point. The housing further comprises an airflow surface that defines an airflow path that curves radially outward from a center of the housing. Also disclosed is a smoke detector comprising a processor, a speaker, a battery compartment, an electromagnetic emitter, an electromagnetic sensor, and a smoke chamber.

IPC 8 full level

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CPC (source: CN EP)

G08B 17/103 (2013.01 - CN EP); **G08B 17/107** (2013.01 - CN EP)

Citation (search report)

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- [XI] EP 0821330 A1 19980128 - CERBERUS AG [CH]
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CN113269943A

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WO 2016186884 A1 20161124; CN 107533787 A 20180102; CN 107533787 B 20191018; CN 110766906 A 20200207; CN 110766906 B 20210330; EP 3295439 A1 20180321; EP 3295439 A4 20190123; EP 3295439 B1 20200506; EP 3699882 A1 20200826

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