Title (en)

Method and device for extinguishing fires in tunnels

Title (de)

Verfahren und Vorrichtung zum Löschen von Bränden in Tunneln

Title (fr)

Procédé et dispositif d'extinction d'incendies dans un tunnel

Publication

EP 1312392 B1 20080730 (DE)

Application

EP 02019381 A 20020829

Priority

DE 10156042 A 20011115

Abstract (en)

[origin: EP1312392A1] To extinguish a fire in a tunnel (2), e.g. a road tunnel, the site of the fire is isolated by curtains (6,8) on a fire detection signal to give a zone (14) for action. An inert gas floods the zone through flow openings from an external gas supply (31), to reduce the oxygen volume to an inert level. Smoke and fumes are extracted by suction (25) without affecting the inert level. A control unit (23) is linked to sensors to assess the oxygen content in the zone e.g. a smoke detector (5) and oxygen monitor (22), and set the flow of fire extinguishing gas accordingly.

IPC 8 full level

A62C 3/02 (2006.01); **A62C 99/00** (2010.01)

CPC (source: EP)

A62C 3/0221 (2013.01); **A62C 3/0257** (2013.01); **A62C 99/0018** (2013.01)

Cited by

EP1475128A1; ITAN20090069A1; CN107961469A; CN104122236A; CN110168623A; GB2480862A; GB2480862B; EP1930048A1; AU2007327712B2; KR101373639B1; EP1683548A1; CN101102820A; GB2406052A; AU2005325609B2; US7717776B2; WO2018130644A1; WO2011039157A3; US7350591B2; US8517116B2; WO2008068076A1; WO2018100181A1; WO2021185839A1; WO2006076936A1; WO2005044387A1; WO2006066290A1; WO2007067810A3; WO2013083096A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

Designated extension state (EPC)

SI

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 02019381 A 20020829; AT 02019381 T 20020829; DE 10156042 A 20011115; DE 50212564 T 20020829; DK 02019381 T 20020829; ES 02019381 T 20020829