

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)

**EP 1312392 A1 20030521**; **EP 1312392 B1 20080730**; AT E402742 T1 20080815; DE 10156042 A1 20030528; DE 50212564 D1 20080911; DK 1312392 T3 20081201; ES 2309124 T3 20081216

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