

Title (en)

Fire extinguishant discharge method and apparatus

Title (de)

Verfahren und Vorrichtung zum Sprühen eines Feuerlöschmittels

Title (fr)

Procédé et appareil d'émission d'un produit extincteur d'incendie

Publication

EP 1584354 A1 20051012 (EN)

Application

EP 04252814 A 20040514

Priority

US 82219004 A 20040408

Abstract (en)

A nozzle has a body 101 with a central cavity 103 from which a plurality of fire extinguishant fluid outlets 109B extend. The outlets extend non-radially with respect to the central axis 135 of the cavity 103, i.e. at least a portion of each outlet is inclined with respect to any plane parallel to and passing through the central axis of the cavity which intersects the portion of the outlet. The extinguishant from the non-radial outlets 109B is thrown towards the walls of the chamber 139, along the paths 141. The jets of the fluid induce a rotational movement within the ambient fluid (for example, air) already present in the chamber, thus creating a vortex or rotational movement of the fluid within the chamber 139. In another embodiment, the vortex or rotational movement is generated by a nozzle assembly of generally cruciform configuration with three or more discharge tubes having outlets formed therein for discharging extinguishant in equi-angularly-spaced directions. <IMAGE>

IPC 1-7

A62C 31/05

IPC 8 full level

A62C 31/05 (2006.01); **B05B 1/14** (2006.01); **B05B 1/02** (2006.01)

CPC (source: EP)

A62C 31/05 (2013.01); **B05B 1/14** (2013.01); **B05B 1/02** (2013.01)

Citation (applicant)

- EP 0671217 A2 19950913 - TOTAL FEUERSCHUTZ GMBH [DE]
- EP 0385851 A1 19900905 - AIR LIQUIDE AMERICAN [US]
- US 6129154 A 20001010 - HOFFMANN ROLF [DE], et al
- US 568376 A 18960929
- SU 1276344 A1 19861215 - LOPATIN IVAN E

Citation (search report)

- [XY] US 5887662 A 19990330 - SUNDHOLM GOERAN [FI]
- [Y] WO 03022364 A1 20030320 - MARIOFF CORP OY [FI], et al
- [A] EP 0933097 A2 19990804 - SUNDHOLM GOERAN [FI]

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1584354 A1 20051012; **EP 1584354 B1 20090408**; AT E427777 T1 20090415; DE 602004020445 D1 20090520

DOCDB simple family (application)

EP 04252814 A 20040514; AT 04252814 T 20040514; DE 602004020445 T 20040514