

Title (en)

Discharging fire and explosion suppressants

Title (de)

Abgabe von Zusammensetzungen welche Feuer und Explosion unterdrücken

Title (fr)

Déchargement d'un agent supprimeur de feu ou d'explosion

Publication

**EP 0693303 A2 19960124 (EN)**

Application

**EP 95303676 A 19950530**

Priority

US 27841194 A 19940721

Abstract (en)

A nozzle unit for discharging and atomising a fire or explosion suppressant comprises a rigid-walled cylindrical container (4A) having a nozzle portion (20) at one end with radially directed discharge orifices (22). A rupturable barrier (16) normally blocks the nozzle portion (20) from the interior of the container (4). At the other end of the container (4), a piston (50) is positioned so as to be sealingly slidable along the container (4A) in response to pressure generated by a gas pressure generator (6). The moving piston (50) pressurises the suppressant agent within the hollow interior until the rupturable barrier (16) bursts. The suppressant agent is accelerated substantially instantaneously and discharged in atomised form through the discharge orifices (22). The arrangement is such that the pressurising gas does not come into contact with the suppressant agent. The piston may be replaced by a bellows containing the suppressant agent and closed off by an integral wall constituting the rupturable barrier. A plurality of the nozzle units may be connected together in a system to protect a specific area. The nozzle units may be connected individually by respective pipes to a common source of gas pressure instead of having their own individual gas generators. <MATH>

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IPC 8 full level

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CPC (source: EP)

**A62C 13/22** (2013.01); **A62C 35/023** (2013.01)

Citation (applicant)

- GB 2174179 A 19861029 - GRAVINER LTD
- EP 0562756 A1 19930929 - GRAVINER LTD KIDDE [GB]

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EP2749324A4; CN111184966A; GB2359487A; CN104297292A; CN112546467A; CN113090956A; EP2752222A4; US9744389B2; US9254399B2; WO0162344A1; GB2337700A; GB2337700B; GB2469913A; EP2762203A4; US10593921B2; US9457210B2; EP2796173B1; EP1474207B1

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