

Title (en)
POWDER DISCHARGE APPARATUS

Publication
EP 0289571 B1 19920304 (EN)

Application
EP 87907549 A 19871022

Priority
US 93349986 A 19861121

Abstract (en)
[origin: WO8803824A1] An apparatus for the discharge of powder by a fluidic propellant is suitable for use as a fire extinguisher, the apparatus including a container (12) wherein powder and propellant is pressurized prior to use of the apparatus. Discharge of the powder and the propellant from the container (12) is accomplished by means of a diaphragm (36) in a wall (34) of the container (12), there being a gas generator (16) contained within a well (20) of the container (12) for providing an overpressure which, in combination with the pressure to which the propellant has been charged, fractures the diaphragm (34). Thereupon, the propellant and the powder exits the container (12) in a homogeneous stream. The overpressure is less than approximately 30 per cent, preferably 20 per cent of the pressure to which the propellant and the powder are subjected during a charging of the container (12) with the powder and the propellant. The charge pressure is in the range of 400 - 600 p.s.i. so as to be many times greater than the pressure of an environment external to the container (12). A battery operated circuit (24) may be connected between a fire sensor and the gas generator (16) for activation of the generator (16) in a modular self-contained form of fire extinguisher.

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IPC 8 full level
A62C 35/11 (2006.01); **A62C 3/08** (2006.01); **A62C 35/08** (2006.01); **A62C 35/13** (2006.01); **A62C 35/64** (2006.01); **A62C 37/40** (2006.01)

IPC 8 main group level
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