

Title (en)

System for combating fires, in particular for use in motor vehicles

Title (de)

Einrichtung zur Feuerbekämpfung, insbesondere für Kraftfahrzeuge

Title (fr)

Installation pour la lutte contre l'incendie, en particulier pour véhicule automobile

Publication

EP 1175921 A2 20020130 (EN)

Application

EP 01830441 A 20010628

Priority

IT TO20000752 A 20000728

Abstract (en)

Described herein is fire-extinguishing device consisting of powder nanoparticles of two reaction compounds (A, B) compressed within a volume of a few cubic centimetres together with an explosive microcore (E) and a priming device (I). In the preferred embodiment, the heat of the flames triggers the explosion, which causes nebulization of the powder nanoparticles from the environment. A first phenomenon of control of the flames is due to the partial suffocation caused by the powder. A second phenomenon is due to the chemical reaction between the two reaction compounds, which subtracts heat from the flames. A third phenomenon is the removal of oxygen from the flames, due to the nanoparticles which, after explosion, expand reacting rapidly with the oxygen present in the environment. <IMAGE>

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