

Title (en)

Pyrotechnic composition containing an inorganic binder, which generates a non-toxic gas and its method of manufacture.

Title (de)

Pyrotechnische, einen anorganischen Binder enthaltende und ein nichttoxisches Gas erzeugende Zusammensetzung und Verfahren zu ihrer Herstellung.

Title (fr)

Composition pyrotechnique génératrice de gaz non toxiques comportant un liant minéral et son procédé de fabrication.

Publication

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Application

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Priority

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Abstract (en)

[origin: EP0467731A1] Pyrotechnic compositions generating nontoxic gases intended to inflate, in the event of accident, protective cushions for the occupants of a motor vehicle. <??>The compositions according to the invention contain an azide, an inorganic oxidising agent and, characteristically, between 5% and 40% by weight of an inorganic binder which is the product of an inorganic polycondensation reaction of mixtures based on alkali metal silicoaluminates. The binder is preferably the product of polymerisation of a silicoaluminate of formula (Si₂O₅.Al₂O₂) and of silica SiO₂ in the presence of aqueous sodium hydroxide and/or potassium hydroxide. <??>After mixing and shaping the various constituents of the composition, the polymerisation of the said binder is ensured in a first stage by heating in a closed leakproof enclosure and, in a second stage, drying of the composition is ensured. <??>The compositions with an inorganic binder according to the invention exhibit mechanical strength and moisture resistance which are higher than those exhibited by equivalent compositions without a binder.

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CPC (source: EP US)

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Cited by

FR2997695A1; US5527405A; US5585048A; US5589662A; FR2689884A1; US5470406A; US5563367A; GB2285976A; GB2285976B; US8574358B2; WO2014072633A1; EP0712767A1; EP0713808A1

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