

Title (en)

Pyrotechnic composition for generating of a clean gas with a low nitrogen oxide content and pellets thereof

Title (de)

Pyrotechnische Zusammensetzung zum Generieren eines sauberen Gases mit niedrigem Stickoxidgehalt und Tabletten daraus

Title (fr)

Composition pyrotechnique génératrice de gaz propres à faible teneur en oxydes d'azote, et pastilles d'une telle composition

Publication

**EP 0924177 B1 20020814 (FR)**

Application

**EP 98403120 A 19981210**

Priority

FR 9716216 A 19971222

Abstract (en)

[origin: EP0924177A1] A pyrotechnic composition for generating clean gases comprises oxygenated crosslinkable organic binder; light metal; potassium perchlorate; and nitrogen-containing oxidant. The pyrotechnic composition for generating clean gases comprises: (a) oxygenated crosslinkable organic binder; (b) light metal selected from boron and aluminum; (c) potassium perchlorate; and (d) nitrogen containing oxidant selected from ammonium perchlorate, triaminoguanidine nitrate, hexogene, octogene and hexanitrohexaazaisowurtzitane and ammonium nitrate in stabilized phase; where: the weight content, x, of nitrogen compound relative to total weight of composition satisfies the relationship:  $0\% \leq x \leq 15\%$  and the weight content of ammonium = 29-93.5% total weight; and composition also contains reactive organic nitrogen compound selected from nitroguanidine, guanidinium nitrate and oxamide, the weight content, y, of said composition relative to the total weight satisfying the relationships:  $y \geq 5\%$ , and  $5\% \leq (x + y) \leq 30\%$ . An Independent claim is also included for the use of the pyrotechnic composition to generate clean gases.

IPC 1-7

**C06D 5/06**

IPC 8 full level

**C06D 5/06** (2006.01)

CPC (source: EP US)

**C06D 5/06** (2013.01 - EP US)

Designated contracting state (EPC)

DE FR SE

DOCDB simple family (publication)

**EP 0924177 A1 19990623; EP 0924177 B1 20020814;** DE 69807177 D1 20020919; DE 69807177 T2 20030724; FR 2772750 A1 19990625; FR 2772750 B1 20000128; US 6024811 A 20000215

DOCDB simple family (application)

**EP 98403120 A 19981210;** DE 69807177 T 19981210; FR 9716216 A 19971222; US 20446698 A 19981203