

Title (en)  
Hydrocarbon binder containing pyrotechnic gas-generating compositions and method for continuous manufacturing

Title (de)  
Kohlenwasserstoffbindemittel enthaltende pyrotechnische gaserzeugende Zusammensetzungen und Verfahren zur kontinuierlichen Herstellung

Title (fr)  
Compositions pyrotechniques génératrices de gaz à liant hydrocarboné et procédé de fabrication en continu

Publication  
**EP 1216977 B1 20050727 (FR)**

Application  
**EP 01403255 A 20011214**

Priority  
FR 0016879 A 20001222

Abstract (en)  
[origin: US6824626B2] The invention is directed to a solvent-free gas-generating pyrotechnic composition, and a method for continuously manufacturing the composition in a twin-screw mixer-extruder, the composition including a binder, a nitrogenous organic compound, an oxidizing filler, and optionally at least one additive; the oxidizing filler including an ammonium perchlorate and a chlorine scavenger; the binder including at least one polymer, having a molecular mass greater than 200,000 and selected from a polyester polymer and an acrylic ester, and wherein the binder uncliding at least one liquid constituent selected from a polyester resin and a plasticizer.

IPC 1-7  
**C06D 5/06**; **C06B 29/22**; **C06B 21/00**

IPC 8 full level  
**B60R 21/26** (2006.01); **B01J 7/00** (2006.01); **C06B 21/00** (2006.01); **C06B 23/00** (2006.01); **C06B 23/02** (2006.01); **C06B 25/00** (2006.01); **C06B 25/34** (2006.01); **C06B 29/22** (2006.01); **C06B 31/08** (2006.01); **C06B 31/12** (2006.01); **C06B 33/00** (2006.01); **C06D 5/00** (2006.01); **C06D 5/06** (2006.01)

CPC (source: EP KR US)  
**C06B 21/0075** (2013.01 - EP US); **C06B 25/00** (2013.01 - KR); **C06B 29/22** (2013.01 - EP US); **C06B 33/00** (2013.01 - KR); **C06D 5/00** (2013.01 - KR); **C06D 5/06** (2013.01 - EP US)

Cited by  
WO2011135262A1; FR2857359A1; FR2959508A1; FR2902783A1; FR2950624A1; EP1553071A3; FR3071831A1; FR2915746A1; EP3770136A1; FR3099155A1; WO2008145935A3; WO2008001005A3; US10159861B2; WO2008145935A2; WO2013045804A1; US9393503B2; WO2019063923A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1216977 A2 20020626**; **EP 1216977 A3 20020911**; **EP 1216977 B1 20050727**; AT E300508 T1 20050815; BR 0106250 A 20020813; BR 0106250 B1 20101116; CA 2364135 A1 20020622; CA 2364135 C 20090203; DE 60112231 D1 20050901; DE 60112231 T2 20060524; FR 2818636 A1 20020628; FR 2818636 B1 20030228; JP 2002255679 A 20020911; JP 3825316 B2 20060927; KR 100446267 B1 20040901; KR 20020051850 A 20020629; MX PA01012981 A 20021021; US 2002079031 A1 20020627; US 6824626 B2 20041130

DOCDB simple family (application)  
**EP 01403255 A 20011214**; AT 01403255 T 20011214; BR 0106250 A 20011221; CA 2364135 A 20011210; DE 60112231 T 20011214; FR 0016879 A 20001222; JP 2001389917 A 20011221; KR 20010081683 A 20011220; MX PA01012981 A 20011214; US 308201 A 20011206