

Title (en)  
Propulsive means for accelerating projectiles

Title (de)  
Antrieb zur Beschleunigung von Geschossen

Title (fr)  
Propulseur pour l'accélération de projectiles

Publication  
**EP 1857429 B1 20130327 (DE)**

Application  
**EP 06405217 A 20060519**

Priority  
EP 06405217 A 20060519

Abstract (en)  
[origin: EP1857429A1] Propulsion system (I) for the acceleration of projectiles that is based on nitrocellulose, comprises a crystalline energy carrier on a nitramine base and one or many inert plasticizing additives, where at least one of the inert plasticizing additives is present, essentially homogeneously distributed, in a matrix of (I), and the one and/or another inert plasticizing additive has an increased concentration in zones near the surface. An independent claim is included for the preparation of (I), manufacturing a powder cake containing solvent, on the base of nitrocellulose and crystalline energy carrier on a nitramine base, and one or many inert plasticizing additives; extruding the powder cake containing a green grain solvent; surface treating with an inert plasticizing additive, so that the inert plasticizing additive in the zones near the surface has a weight proportion of not more than 10 wt.%. particularly less than 6 wt.%.

IPC 8 full level  
**C06B 45/10** (2006.01); **C06B 25/18** (2006.01); **C06B 25/34** (2006.01)

CPC (source: EP US)  
**C06B 25/18** (2013.01 - EP US); **C06B 25/34** (2013.01 - EP US); **C06B 45/105** (2013.01 - EP US)

Cited by  
FR3014431A1; AU2011264361B2; WO2011153655A2; WO2011153655A3; WO2014117280A1; WO2015082845A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1857429 A1 20071121**; **EP 1857429 B1 20130327**; CA 2589014 A1 20071119; CA 2589014 C 20150317; ES 2423495 T3 20130920; JP 2007308367 A 20071129; JP 5405006 B2 20140205; PL 1857429 T3 20130830; US 2012138201 A1 20120607; US 8353994 B2 20130115

DOCDB simple family (application)  
**EP 06405217 A 20060519**; CA 2589014 A 20070514; ES 06405217 T 20060519; JP 2007158049 A 20070518; PL 06405217 T 20060519; US 79887807 A 20070517