Title (en)

Semicontiunuous process for making an explosive composite charge having a polyurethane matrix by using two components

Title (de)

Semikontinuierliches Verfahren zur Herstellung einer explosiven Komposit-Ladung mit einer Polyurethanmatrix durch Verwendung von zwei Komponenten

Title (fr)

Procédé semi-continu d'obtention d'un chargement explosif composite à matrice polyuréthanne, ledit procédé mettant en oeuvre deux composants

Publication

EP 1333015 B1 20091104 (FR)

Application

EP 03290123 A 20030117

Priority

FR 0201213 A 20020201

Abstract (en)

[origin: EP1333015A2] Semi-continuous production of a composite explosive charge (I) consisting of a solid polyurethane matrix filled with powder (II) containing nitrated organic explosive(s), by charging a mold with a paste obtained by mixing a polyol prepolymer (III), plasticizer (IV), polyisocyanate monomer (V) and (II) then thermally crosslinking. Semi-continuous production of a composite explosive charge (I) consisting of a solid polyurethane matrix filled with powder (II) containing nitrated organic explosive(s), by charging a mold with a paste obtained by mixing a polyol prepolymer (III), plasticizer (IV), polyisocyanate monomer (V) and (II) then thermally crosslinking, includes: (i) discontinuously forming the following homogeneous mixtures by simple mixing: (a) a paste comprising the whole of (II) and (III); and (b) a liquid comprising the whole of (V) ((IV) being distributed between (a) and/or (b) as required); and (ii) continuously mixing (a) and (b) at a weight ratio of 95-99.5 : 5-0.5.

IPC 8 full level

C06B 21/00 (2006.01); **C06B 25/00** (2006.01); **C06B 45/10** (2006.01)

CPC (source: EP KR US)

C06B 21/0058 (2013.01 - EP US); **C06B 45/10** (2013.01 - EP KR US)

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FR3090629A1; EP3476821A1; FR3072676A1; GB2475198A; GB2475198B; EP1790626A1; FR2893613A1; NO20082110L; AU2006319000B2; NO341597B1; WO2011083249A1; US7887651B1; WO2007060365A3; EP1652574A2; WO2013182796A1; WO2010023450A1

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