

Title (en)

REDUCED SENSITIVITY, MELT-POURABLE TNT REPLACEMENTS

Title (de)

SCHMELZGIESSBARER TNT-ERSATZ MIT VERMINDERTER EMPFINDLICHKEIT

Title (fr)

PRODUITS DE SUBSTITUTION DE TNT POUVANT ETRE COULES PAR FUSION, A SENSIBILITE REDUITE

Publication

EP 1399400 A1 20040324 (EN)

Application

EP 01952384 A 20010627

Priority

US 0121047 W 20010627

Abstract (en)

[origin: WO03002486A1] This melt-pourable explosive composition shares comparable explosive properties to those of trinitrotoluene and is melt-pourable and castable under conditions comparable to those of trinitrotoluene, but experiences equal or less impact, shock, and thermal sensitivity and avoids the issues of toxicity associated with trinitrotoluene. Trinitrotoluene is replaced with one or more mononitro aromatic and/or dinitro aromatic melt-pourable binders, such as dinitroanisole, which can be melt poured without presenting the toxicity drawbacks experienced with the use of TNT. The melt-pourable binder can also be combined with a processing aid selected from the group consisting of alkyl nitroanilines and aryl nitroanilines. The composition also includes oxidizer particles, which are preferably inorganic oxidizer particles.

IPC 1-7

C06B 21/00; **C06B 29/22**

IPC 8 full level

C06B 21/00 (2006.01); **C06B 29/22** (2006.01); **C06B 31/14** (2006.01); **C06B 31/38** (2006.01)

CPC (source: EP)

C06B 21/005 (2013.01); **C06B 29/22** (2013.01); **C06B 31/14** (2013.01); **C06B 31/38** (2013.01)

Citation (search report)

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