

Title (en)
METHOD OF MANUFACTURE OF POWDER-BASED FIREARM AMMUNITION PROJECTILE EMPLOYING ELECTROSTATIC CHARGE

Title (de)
VERFAHREN ZUR HERSTELLUNG VON FEUERWAFFENMUNITIONSGESCHOSS AUF PULVERBASIS UNTER VERWENDUNG VON ELEKTROSTATISCHER LADUNG

Title (fr)
PROCEDE DE FABRICATION DE PROJECTILES A BASE DE POUDRE POUR ARMES A FEU, UTILISANT LA CHARGE ELECTROSTATIQUE

Publication
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Application
EP 01990262 A 20011231

Priority
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• US 25956601 P 20010103

Abstract (en)
[origin: WO02054008A1] A first metal powder having a density greater than the density of lead is mixed with a second metal powder having a density not greater than the density of lead and a matrix micronized polymeric powder which is itself a poor electrical conductor but susceptible to accumulation of an electrostatic charge thereon during handling and/or transportation thereof. The mixing of these metal powders and the micronized polymeric powder is performed under conditions which maintain, promote or enhance the electrostatic environment within a mixing vessel with the result that the metal and non-metal powders become substantially uniformly distributed throughout the mixture, and retain their uniform distribution after removal from the mixing vessel, and carry forward such uniform distribution into and throughout subsequent conversion of the mixture into ammunition projectiles without the heavy and light metal powder particulates separating, according to their respective densities, into semi-layers or strata.

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F42B 8/14; F42B 12/74

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