

Title (en)

NON-TOXIC, METALLIC-METAL FREE ZINC PEROXIDE-CONTAINING, IR TRACER COMPOSITIONS AND IR TRACER PROJECTILES CONTAINING SAME FOR GENERATING A DIM VISIBILITY IR TRACE

Title (de)

NICHT TOXISCHE, VON METALLISCHEM METALL FREIE ZINKPEROXIDHALTIGE IR-TRACER-ZUSAMMENSETZUNGEN UND DIESE ENTHALTENDE IR-TRACER-PROJEKILE ZUR ERZEUGUNG EINER SCHWACH SICHTBAREN IR-SPUR

Title (fr)

COMPOSITIONS DE TRACEUR IR METALLIQUES-SANS METAUX, NON TOXIQUES, CONTENANT UN PEROXYDE DE ZINC, ET PROJECTILES A TRACEUR IR LES CONTENANT UTILISES POUR GENERER UNE TRACE IR DE FAIBLE VISIBILITE

Publication

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Application

EP 06721718 A 20060328

Priority

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- US 9836805 A 20050405

Abstract (en)

[origin: US2006219339A1] Novel non-toxic, metallic-metal free, zinc peroxide-containing, IR tracer compositions are provided herein, which, when incorporated into a medium caliber IR tracer projectile and fired, produce a dim visibility IR trace. Such IR tracer compositions comprise from about 26 to about 30% by weight, or from about 65 to about 80% by weight, of zinc peroxide; from about 40 to about 47% by weight of potassium nitrate; from about 10 to about 25% by weight of a non-metallic fuel which consists of sodium salicylate; from about 5 to about 26% by weight of a retardant which consists of either iron carbonate or magnesium carbonate or calcium carbonate; and from about 5 to about 10% by weight of at least one binder which is either calcium resinate, or a synthetic resin binder which consists of a copolymer of hexafluoropropylene and vinylidene fluoride, or from about 5 to about 7.5% by weight of cellulose acetate butyrate. The total percentage of the ingredients adds up to 100%. Medium caliber, i.e., 0.50 caliber, IR tracer projectiles containing such IR tracer compositions are also provided.

IPC 8 full level

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CPC (source: EP US)

C06C 15/00 (2013.01 - EP US)

Citation (search report)

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- [A] US 5639984 A 19970617 - NIELSON DANIEL B [US]
- [DA] US 5472536 A 19951205 - DORIS THOMAS A [US], et al
- [A] WO 9723434 A1 19970703 - DYNAMIT NOBEL AG [DE], et al
- [A] US 1708187 A 19290409 - MEEK STERNER ST P
- [A] US 3677842 A 19720718 - DORIS THOMAS A JR
- [A] US 4363679 A 19821214 - HAGEL RAINER, et al
- See references of WO 2006105635A1

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