

Title (en)
METHOD OF INCREASING THE BURN RATE, IGNITABILITY AND CHEMICAL STABILITY OF AN ENERGETIC FUEL, AND AN ENERGETIC FUEL

Title (de)
VERFAHREN ZUR VERBESSERUNG DER BRENNGESCHWINDIGKEIT, ENTZÜNDLICHKEIT UND CHEMISCHEN STABILITÄT EINES ENERGETISCHEN BRENNSTOFFES UND ENERGETISCHER BRENNSTOFF

Title (fr)
PROCÉDÉ D'AUGMENTATION DU TAUX DE COMBUSTION, DE L'INFLAMMABILITÉ ET DE LA STABILITÉ CHIMIQUE D'UN CARBURANT ÉNERGÉTIQUE ET CARBURANT ÉNERGÉTIQUE

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Application
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Abstract (en)
[origin: WO2009102259A1] An energetic fuel comprising particles with a base of metal or semimetal selected among Al, Mg, B, Ti, Zr, Hf, Si, Be, Ca and alloys of two or more of the same and a coating applied to the base particles and containing an oxide, hydroxide, oxide hydroxide or carbonate of another, more noble metal than the base and which coating reacts exothermally with the base particle in ignition of the energetic fuel. The invention also relates to a method of improving the burn rate, ignitability and chemical stability of an energetic fuel based on particles of metal or semimetal by applying said coating to the particles.

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Citation (search report)
• [XAI] US 3381473 A 19680507 - KUEHL DONALD K
• [XI] US 3474732 A 19691028 - THOMISON WILLIAM C
• [XI] US 2003089823 A1 20030515 - AUNER NORBERT [DE]
• [I] WO 2006093519 A2 20060908 - ADVANCED CERAMICS RES INC [US], et al
• [A] US 2003051786 A1 20030320 - VERITY DENNIS GORDON [ZA]
• [A] US 4877649 A 19891031 - TROWBRIDGE JOHN C [US], et al
• See also references of WO 2009102259A1

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