

Title (en)  
NITROUS OXIDE FUEL BLEND MONOPROPELLANTS

Title (de)  
MONOPROPELLANTEN AUS EINER DISTICKSTOFFMONOXID-BRENNSTOFFMISCHUNG

Title (fr)  
MONERGOLS À OXYDE D'AZOTE MÉLANGÉ À UN COMBUSTIBLE

Publication  
**EP 2209876 A4 20140108 (EN)**

Application  
**EP 08848086 A 20081110**

Priority  
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• US 98699107 P 20071109

Abstract (en)  
[origin: WO2009062183A1] Compositions and methods herein provide monopropellants comprising nitrous oxide mixed with organic fuels in particular proportions creating stable, storable, monopropellants which demonstrate high ISP performance. Due to physical properties of the nitrous molecule, fuel/nitrous blends demonstrate high degrees of miscibility as well as excellent chemical stability. While the monopropellants are particularly well suited for use as propulsion propellants, they also lend themselves well to power generation in demanding situations where some specific cycle creates useable work and for providing gas pressure and/or heat for inflating deployable materials.

IPC 8 full level  
**C10L 1/23** (2006.01)

CPC (source: EP US)  
**C06B 47/04** (2013.01 - EP US); **C06D 5/08** (2013.01 - EP US); **C10L 3/02** (2013.01 - EP US)

Citation (search report)  
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• [XY] US 5466313 A 19951114 - BREDE UWE [DE], et al  
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• See references of WO 2009062183A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

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