

Title (en)  
POWER UNIT WITH ENHANCED PERFORMANCE

Title (de)  
ANTRIEBSEINHEIT MIT ERHÖHTER LEISTUNG

Title (fr)  
PROPULSEUR A PERFORMANCE AMELIOREE

Publication  
**EP 2153052 A2 20100217 (FR)**

Application  
**EP 08760479 A 20080604**

Priority  
• EP 2008056897 W 20080604  
• FR 0704115 A 20070608

Abstract (en)  
[origin: CA2689150A1] The present invention relates to the field of propellant units, and more particularly the propellant units used in weapon and munitions systems, comprising an energy cylinder with a central channel (3) and a peripheral secondary energy charge (2) with a secondary speed of combustion, said channel being filled with a primary energy charge (1) made from materials comprising nanostructures made from Fe<sub>2</sub>O<sub>3</sub> with a speed of combustion between 10 and 100 times greater than the speed of secondary combustion. The use of said materials permits a significant increase in the efficiency of said propellants.

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**F02K 9/12** (2006.01)

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