

Title (en)  
COATING BASED ON NIAL2O4 IN SPINEL STRUCTURE

Title (de)  
BESCHICHTUNG AUF NIAL2O4 BASIS IN SPINELLSTRUKTUR

Title (fr)  
REVÊTEMENT À BASE DE NIAL2O4 EN STRUCTURE SPINELLE

Publication  
**EP 2547805 A1 20130123 (DE)**

Application  
**EP 11711494 A 20110318**

Priority  

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- EP 10173410 A 20100819
- EP 2011054110 W 20110318
- EP 11711494 A 20110318

Abstract (en)  
[origin: EP2369031A1] Coating comprises at least a compound of oxygen and/or nitrogen with at least two metal materials, where the compound is at least partially present in spinel structure. Independent claims are included for: (1) coating substrates by arc vaporization, where an alloy target comprising 10-80 (preferably 20-60) atom% of nickel is used as a target, oxygen and/or nitrogen are used as reactive gas, the alloy target contains aluminum as a component for producing the coating, and the aluminum/nickel ratio is varied to 300-800 standard cubic centimeters per minute by an oxygen flow, during the formation of the coating; and (2) a coated substrate, preferably tools or components, where the surface of the substrate on which the coating comes to lie, is a steel and the coating is formed.

IPC 8 full level  
**C23C 14/08** (2006.01); **C23C 14/32** (2006.01); **H01J 37/32** (2006.01)

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Citation (search report)  
See references of WO 2011113927A1

Citation (examination)  
US 2004042948 A1 20040304 - KANNO SHUICHI [JP], et al

Designated contracting state (EPC)  
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