

Title (en)  
Coated component

Title (de)  
Bauteil mit einer Beschichtung

Title (fr)  
Composant revetu

Publication  
**EP 1754801 B1 20140514 (DE)**

Application  
**EP 06015645 A 20060727**

Priority  
DE 102005036162 A 20050802

Abstract (en)  
[origin: EP1754801A2] In a component with a corrosion- and/or oxidation-resistant coating with a platinum (Pt)-aluminum (Al) substrate region (12), formed on a nickel (Ni)-based substrate surface (11) by depositing Pt and Al, the Pt-Al region has an outer zone (13) with a 2-phase or duplex structure of finely dispersed Pt-Al deposits in Ni-based mixed crystals; and an inner zone (14), between the substrate and outer zone, with a single-phase structure of Ni-based mixed crystals : Independent claims are included for: (1) a coating as described above; and (2) the production of a corrosion- and/or oxidation-resistant coating, by depositing Pt on a substrate or component surface, so that the Pt diffuses into the surface then aluminizing, where aluminization is carried out by depositing Al thermochemically in a high-activity gas phase process and the Al diffuses into the surface to give a 2-phase or duplex structure as described above.

IPC 8 full level  
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CPC (source: EP US)  
**C23C 10/16** (2013.01 - EP US); **C23C 10/58** (2013.01 - EP US); **C23C 28/042** (2013.01 - EP US); **C23C 28/048** (2013.01 - EP US); **F01D 5/288** (2013.01 - EP US); **F05C 2201/0466** (2013.01 - EP US); **F05D 2300/121** (2013.01 - EP US); **F05D 2300/143** (2013.01 - EP US); **Y10T 428/12611** (2015.01 - EP US); **Y10T 428/12618** (2015.01 - EP US); **Y10T 428/12736** (2015.01 - EP US); **Y10T 428/1275** (2015.01 - EP US); **Y10T 428/12875** (2015.01 - EP US)

Cited by  
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DE FR GB

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