

Title (en)

Process for coating nickel or cobalt-base superalloy substrate

Title (de)

Verfahren zur Beschichtung eines Substrates aus einer Superlegierung auf Nickel- oder Kobaltbasis

Title (fr)

Procédé de réalisation d'un apport sur une pièce en superalliage base de nickel ou de cobalt

Publication

EP 0825275 B1 20010131 (FR)

Application

EP 97401953 A 19970820

Priority

FR 9610351 A 19960822

Abstract (en)

[origin: EP0825275A1] A substrate of nickel or cobalt-based alloy (2) is coated with another alloy at least over a restricted area by applying a powdered mixture of metals (1) which is then caused to react by controlled heating in a vessel filled with inert gas at up to 1.5 GPa pressure. The vessel has elements able to heat it to 1200 degrees C at 5-120 degrees C/minute to create a thermal gradient of 200 degrees C between opposite ends of the area, so that the reaction begins at one end of the mixture and is rapidly propagated therethrough, forming an intermetallic compound which bonds itself to the substrate.

IPC 1-7

C23C 10/28

IPC 8 full level

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CPC (source: EP US)

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Cited by

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