

Title (en)

PROTECTIVE COATING FOR TUBING BLADES

Title (de)

SCHUTZSCHICHT FÜR TURBINENSCHAUFEL

Title (fr)

COUCHE DE PROTECTION POUR AUBE DE TURBINE

Publication

EP 0886721 B1 20020605 (DE)

Application

EP 97904418 A 19970212

Priority

- DE 19609690 A 19960313
- EP 9700630 W 19970212

Abstract (en)

[origin: WO9734076A1] The invention relates to a turbine blade with a corrosion-resistant protective coating of MCrAlY. The aim of the invention is to provide a turbine blade on which the top coating is not subject to spallation. This aim is attained in that the surface layer of the protective MCrAlY coating consists, to a depth of 5 - 50 μ m, of a single-phase alloy in a large area spread evenly over the entire surface layer, where the single-phase alloy is obtained by remelting with a pulsed electron beam.

IPC 1-7

F01D 5/28; **C23C 4/18**

IPC 8 full level

C23C 4/08 (2006.01); **C23C 4/18** (2006.01); **F01D 5/28** (2006.01); **F01D 25/00** (2006.01)

CPC (source: EP)

C23C 4/18 (2013.01); **F01D 5/286** (2013.01); **F01D 5/288** (2013.01); **F05D 2230/90** (2013.01); **F05D 2300/132** (2013.01); **F05D 2300/611** (2013.01)

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI

DOCDB simple family (publication)

WO 9734076 A1 19970918; AT E218670 T1 20020615; DE 19609690 A1 19971009; DE 19609690 C2 20001228; DE 59707422 D1 20020711; EP 0886721 A1 19981230; EP 0886721 B1 20020605; JP 3320739 B2 20020903; JP H11506186 A 19990602

DOCDB simple family (application)

EP 9700630 W 19970212; AT 97904418 T 19970212; DE 19609690 A 19960313; DE 59707422 T 19970212; EP 97904418 A 19970212; JP 53222097 A 19970212