

Title (en)

Method for the surface-treatment of parts.

Title (de)

Verfahren zur Oberflächenbehandlung von Bauteilen.

Title (fr)

Procédé de traitement de surfaces de pièces.

Publication

EP 0492323 B1 19950920 (DE)

Application

EP 91121460 A 19911214

Priority

DE 4041103 A 19901221

Abstract (en)

[origin: EP0492323A2] The invention relates to a method for the surface treatment of parts by means of shot peening. An MCrAlY layer is first deposited on the surface of the part as an oxidation and hot-gas corrosion layer. Then the layer surface is shot-peened using a jet of particles having a jet intensity of not more than 0.15 mm Almen A, a coverage of not less than 400% and a mean jet particle diameter of not more than 0.5 mm to smooth and compact the surface. The method is particularly suitable for the surfaces of high-pressure turbine blades having a low radius of curvature at the leading and trailing edge.

IPC 1-7

C23C 4/18; B24C 1/10; C21D 7/06; C22F 1/00

IPC 8 full level

B24C 1/10 (2006.01); **C21D 7/06** (2006.01); **C22F 1/00** (2006.01); **C23C 4/18** (2006.01)

CPC (source: EP)

B24C 1/10 (2013.01); **C21D 7/06** (2013.01); **C23C 4/18** (2013.01)

Cited by

US9333623B2; GB2562382A; EP2604377A1; EP0638652A1; GB2375725A; EP0559330A1; US5437933A; EP1101827A1; FR2801322A1; FR2694575A1; FR2883216A1; US2013139852A1; US8920881B2; US7028378B2; US6289705B1; WO0136692A1; WO2012022298A3; EP1805344B1

Designated contracting state (EPC)

CH DE FR GB IT LI SE

DOCDB simple family (publication)

EP 0492323 A2 19920701; **EP 0492323 A3 19921007**; **EP 0492323 B1 19950920**; DE 4041103 A1 19920702; DE 59106539 D1 19951026

DOCDB simple family (application)

EP 91121460 A 19911214; DE 4041103 A 19901221; DE 59106539 T 19911214