

Title (en)

Process for producing an abrasive coating for metal components of drive units

Title (de)

Verfahren zur Fertigung eines Anstreifbelages für metallische Triebwerkskomponenten

Title (fr)

Procédé pour la production d'un revêtement abrasif pour des constituants métalliques de propulseurs

Publication

EP 0702130 B1 20030423 (DE)

Application

EP 95113444 A 19950826

Priority

DE 4432998 A 19940916

Abstract (en)

[origin: EP0702130A2] The stripper lining has a run-up lining (3) made from a thermally injected ceramics layer profiled so that its has cutting edges with interspaces inbetween to collect up the abrasions from the inlet lining. The stripper lining is made from ZrO₂Y₂O₃. The metal engine component can be the bucket vane tip of an engine paddle. It can be a sealing tip of a labyrinth seal. When making the lining a perforated mask is placed on the component surface being coated. The ceramic material is thermally sprayed through the mask onto the surface at a spray angle of 10 to 30 degs. to form the cutting edges and interspaces. The component surface can be profile-etched.

IPC 1-7

F01D 5/20; **F01D 11/12**

IPC 8 full level

C23C 4/01 (2016.01); **F01D 5/20** (2006.01); **F01D 11/12** (2006.01)

CPC (source: EP US)

C23C 4/01 (2016.01 - EP US); **F01D 5/20** (2013.01 - EP US); **F01D 11/12** (2013.01 - EP US); **F05D 2230/90** (2013.01 - EP US); **F05D 2300/21** (2013.01 - EP US); **Y10T 428/24413** (2015.01 - EP US); **Y10T 428/24926** (2015.01 - EP US); **Y10T 428/256** (2015.01 - EP US); **Y10T 428/257** (2015.01 - EP US)

Cited by

WO2007082823A1; EP1820938A1; EP1808508A1; EP3006672A1; EP1764478A3; EP2309098A1; EP1925779A1; EP2617949A3; FR3026428A1; US10385783B2; DE102009012945A1; EP1764478A2; WO2011088817A1; WO2007033650A1; US8277194B2; KR100466836B1

Designated contracting state (EPC)

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