

Title (en)
THERMAL SPRAYING OF A MACHINE PART

Title (de)
THERMISCHES SPRITZEN EINES MASCHINENTEILS

Title (fr)
PULVERISATION THERMIQUE D'UNE PARTIE D'UNE MACHINE

Publication
EP 1478790 A1 20041124 (EN)

Application
EP 02712931 A 20020228

Priority
EP 0202151 W 20020228

Abstract (en)
[origin: WO03072844A1] The invention discloses a machine part surface (22), coated at least partly with a coating material by a thermal spray process. Said coating material has been exposed to heat treatment at an elevated temperature and for a time effective to at least partially diffuse said coating material into underlying surface thereby creating necks between the coating material and the underlying surface. Additionally coating material layers (24) are applied and subject to successive heat treatments of each said coating material layer in order to provide on said machine part surface (22) a plurality of layers (24) of same said coating material (so that the coating material forms necks (23) in contact points between particles (21) and layers in at least said coating. A method for making such coating on a machine part surface is also disclosed.

IPC 1-7
C23C 4/00; **C23C 4/04**; **C23C 4/12**; **F02B 77/02**; **F02F 3/14**; **F16J 9/26**

IPC 8 full level
F02F 1/00 (2006.01); **C23C 4/00** (2006.01); **C23C 4/02** (2006.01); **C23C 4/04** (2006.01); **C23C 4/06** (2006.01); **C23C 4/10** (2006.01); **C23C 4/12** (2006.01); **C23C 4/18** (2006.01); **F02B 77/02** (2006.01); **F02F 3/14** (2006.01); **F16J 9/26** (2006.01)

CPC (source: EP KR)
C23C 4/00 (2013.01 - EP KR); **C23C 4/02** (2013.01 - EP); **C23C 4/06** (2013.01 - EP); **C23C 4/12** (2013.01 - EP); **C23C 4/18** (2013.01 - EP KR)

Citation (search report)
See references of WO 03072844A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 03072844 A1 20030904; AU 2002244734 A1 20030909; CN 100385033 C 20080430; CN 1630734 A 20050622; EP 1478790 A1 20041124; JP 2005519190 A 20050630; KR 100820987 B1 20080410; KR 20040088544 A 20041016; NO 20044022 L 20040924

DOCDB simple family (application)
EP 0202151 W 20020228; AU 2002244734 A 20020228; CN 02828367 A 20020228; EP 02712931 A 20020228; JP 2003571522 A 20020228; KR 20047013252 A 20020228; NO 20044022 A 20040924