

Title (en)

COATING OF CONTINUOUS CASTING MACHINE COMPONENTS

Title (de)

VERFAHREN ZUM BESCHICHTEN VON BAUTEILEN EINER STRANGGIESSANLAGE

Title (fr)

REVETEMENT DE COMPOSANTS DE MACHINE A MOULAGE CONTINU

Publication

EP 0946778 A1 19991006 (EN)

Application

EP 97911364 A 19971107

Priority

- GB 9703073 W 19971107
- GB 9623344 A 19961108

Abstract (en)

[origin: GB2320034A] A coating consisting of ceramo-metallic material, e.g. WC-Co, is applied to an internal surface of a grid plate by flame spraying. A ceramic slurry is applied and fired to produce a ceramic coating which is partially removed to produce a composite ceramo-metallic and ceramic surface which is then bonded and densified. The coating is in the form of an array of islands. A ceramic slurry may then be applied and fixed to produce a ceramic coating which is partially removed to produce a composite ceramic-metallic and ceramic surface which is then bonded and densified. The ceramic slurry may contain a chromium compound capable of being converted into chromium oxide at temperatures of at least 300°C. The composite surface may then be impregnated with a solution of at least one soluble compound capable of being converted on heating, into an insoluble substance which bonds the coatings. The soluble compound may be selected from chromia and phosphate forming compounds.

IPC 1-7

C23C 4/18; **B22D 11/04**

IPC 8 full level

C23C 4/04 (2006.01); **B22D 11/059** (2006.01); **B22D 11/124** (2006.01); **B22D 11/128** (2006.01); **C23C 4/06** (2006.01); **C23C 4/18** (2006.01)

CPC (source: EP)

B22D 11/059 (2013.01); **B22D 11/1243** (2013.01); **B22D 11/128** (2013.01); **C23C 4/06** (2013.01); **C23C 4/18** (2013.01)

Citation (search report)

See references of WO 9821379A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

GB 2320034 A 19980610; **GB 2320034 A8 19980713**; **GB 2320034 B 19981111**; **GB 9714452 D0 19970910**; AT E204615 T1 20010915; AU 4877597 A 19980603; DE 69706317 D1 20010927; DE 69706317 T2 20020516; DK 0946778 T3 20011217; EP 0946778 A1 19991006; EP 0946778 B1 20010822; ES 2163139 T3 20020116; GB 2319042 A 19980513; GB 2319042 B 19981111; GB 9623344 D0 19970108; JP 2001504162 A 20010327; PT 946778 E 20020228; WO 9821379 A1 19980522

DOCDB simple family (application)

GB 9714452 A 19961108; AT 97911364 T 19971107; AU 4877597 A 19971107; DE 69706317 T 19971107; DK 97911364 T 19971107; EP 97911364 A 19971107; ES 97911364 T 19971107; GB 9623344 A 19961108; GB 9703073 W 19971107; JP 52229398 A 19971107; PT 97911364 T 19971107