

Title (en)

Substrate of improved melt sprayed surface morphology.

Title (de)

Substrat mit verbesserter Oberflächemorphologie mittels schmelzflüssigen Spritzens.

Title (fr)

Substrat présentant une morphologie de surface améliorée pour projection à l'état fondu.

Publication

EP 0493326 A2 19920701 (EN)

Application

EP 91810992 A 19911220

Priority

US 63391490 A 19901226

Abstract (en)

A metal surface is now described having enhanced adhesion of subsequently applied coatings. The substrate metal of the article, such as a valve metal as represented by titanium, is provided with a highly desirable surface characteristic for subsequent coating application. This can be achieved by a plasma sprayed coating of well defined surface morphology, the plasma spraying being with one or more metals usually valve metals. The metal of the coating may be the same or different from the metal of the substrate. Subsequently applied coatings, by penetrating into the coating of well defined surface morphology, and desirably locked onto the resulting metal article an provide enhanced lifetime even in rugged commercial environments.

IPC 1-7

C23C 4/02; **C23C 4/08**; **C23C 28/00**; **C25B 11/00**; **C25C 7/02**; **C25D 17/10**

IPC 8 full level

C23C 4/00 (2016.01); **C23C 4/02** (2006.01); **C23C 8/02** (2006.01); **C23C 26/00** (2006.01); **C23C 28/00** (2006.01); **C23F 1/00** (2006.01); **C25B 11/00** (2006.01); **C25B 11/10** (2006.01); **C25C 7/02** (2006.01); **C25D 1/04** (2006.01); **C25D 17/10** (2006.01); **C25D 17/12** (2006.01)

CPC (source: EP)

C23C 4/02 (2013.01); **C23C 4/06** (2013.01); **C23C 8/02** (2013.01); **C23C 26/00** (2013.01); **C23F 1/00** (2013.01); **C25B 11/00** (2013.01); **C25C 7/02** (2013.01); **C25D 17/10** (2013.01)

Cited by

CN104073842A; AU657248B2; WO9717478A1; WO2015116123A3; US8632836B2; US9642708B2; EP0576402B1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0493326 A2 19920701; **EP 0493326 A3 19930317**; **EP 0493326 B1 19970625**; AT E154834 T1 19970715; AU 643350 B2 19931111; AU 8995491 A 19920702; CA 2056943 A1 19920627; CA 2056943 C 19971111; DE 69126656 D1 19970731; DE 69126656 T2 19980102; DK 0493326 T3 19971229; ES 2104684 T3 19971016; GR 3024677 T3 19971231; JP 2825383 B2 19981118; JP H04301062 A 19921023; KR 100235378 B1 19991215; KR 920011628 A 19920724; MX 9102511 A 19920601; TW 197475 B 19930101

DOCDB simple family (application)

EP 91810992 A 19911220; AT 91810992 T 19911220; AU 8995491 A 19911220; CA 2056943 A 19911204; DE 69126656 T 19911220; DK 91810992 T 19911220; ES 91810992 T 19911220; GR 970402323 T 19970910; JP 34463491 A 19911226; KR 910024456 A 19911226; MX 9102511 A 19911211; TW 80109498 A 19911203