

Title (en)

A coated article and a method of coating said article.

Title (de)

Beschichtetes Werkstück und Verfahren zum Beschichten dieses Werkstückes.

Title (fr)

Article revêtu et procédé de revêtement de cet article.

Publication

EP 0605175 A3 19950405 (EN)

Application

EP 93310374 A 19931221

Priority

US 99871292 A 19921230

Abstract (en)

[origin: EP0605175A2] The present specification discloses a coated article having a wear and corrosion resistant coating which is formed by blending a powder formulation having a metal carbide-metal binder component and a nickel base boron containing alloy component. The blend is deposited on a body of the article by a method capable of producing a coating with an as-deposited porosity of less than 5% and a boron content of 1.3 to 3.0 wt % of the whole coating. Then the coated article is preferably heat-treated to achieve in the coating a microhardness above 900 Kg/mm² HV.3 and the elimination of all interconnected porosity. The coating thus produced will sustain oil quenching without cracking. <IMAGE>

IPC 1-7

C23C 4/06; **C23C 4/18**

IPC 8 full level

C23C 4/04 (2006.01); **C23C 4/06** (2006.01); **C23C 4/10** (2006.01); **C23C 4/18** (2006.01)

CPC (source: EP KR)

C22C 19/03 (2013.01 - KR); **C23C 4/06** (2013.01 - EP KR); **C23C 4/126** (2016.01 - KR); **C23C 4/18** (2013.01 - EP)

Citation (search report)

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Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

EP 0605175 A2 19940706; **EP 0605175 A3 19950405**; **EP 0605175 B1 19970813**; CA 2112545 A1 19940701; CA 2112545 C 20000418; DE 69313093 D1 19970918; DE 69313093 T2 19980326; JP H06228728 A 19940816; KR 940014880 A 19940719; SG 47422 A1 19980417

DOCDB simple family (application)

EP 93310374 A 19931221; CA 2112545 A 19931229; DE 69313093 T 19931221; JP 34950093 A 19931228; KR 930030616 A 19931229; SG 1996001038 A 19931221