

Title (en)

PROCESS FOR FABRICATING A REFRACTORY COATING ON A METAL SUBSTRATE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER FEUERFESTEN BESCHICHTUNG AUF EIN METALLSUBSTRAT

Title (fr)

PROCEDE DE FABRICATION D'UN REVETEMENT REFRACTAIRE SUR UN SUBSTRAT METALLIQUE

Publication

EP 0725846 B1 19980304 (FR)

Application

EP 94931064 A 19941013

Priority

- FR 9401191 W 19941013
- FR 9312790 A 19931025

Abstract (en)

[origin: WO9512012A1] The invention relates to a process for fabricating a refractory coating on a metal substrate in order to create a protection layer having a high hardness, capable of withstanding high temperatures. The process comprises: (a) forming on the substrate surface a porous layer consisting of oxides or hydroxides of the metal or metals (M1) of the substrate; (b) depositing on said porous layer at least one refractory oxide and/or hydroxide of an element or elements (M2) different from the metal or metals (M1); and (c) heating the assembly to a temperature causing surface reaction of the oxides of the porous layer and the refractory oxide or oxides in order to form one or more mixed oxides of the elements in the presence of (M1, M2).

IPC 1-7

C25D 9/10; **C25D 5/36**; **C25D 5/50**

IPC 8 full level

C25D 5/36 (2006.01); **C25D 5/50** (2006.01); **C25D 9/10** (2006.01)

CPC (source: EP)

C25D 5/36 (2013.01); **C25D 5/50** (2013.01); **C25D 9/10** (2013.01)

Designated contracting state (EPC)

BE DE ES FR GB IT NL SE

DOCDB simple family (publication)

WO 9512012 A1 19950504; DE 69408859 D1 19980409; DE 69408859 T2 19981029; EP 0725846 A1 19960814; EP 0725846 B1 19980304; FR 2711575 A1 19950505; FR 2711575 B1 19960112

DOCDB simple family (application)

FR 9401191 W 19941013; DE 69408859 T 19941013; EP 94931064 A 19941013; FR 9312790 A 19931025