

Title (en)

Calvanizing bath members effectively protected against the deposition of alloy layers, a process for producing said members, and a method of hot-dip galvanizing that uses said members.

Title (de)

Gegen die Ablagerung von Legierungsschichten effektiv geschützte Bauteile für galvanische Bäder, ein Verfahren zur Herstellung solcher Bauteile, und ein diese Bauteile verwendendes Feuerverzinkverfahren.

Title (fr)

Eléments dans les bains de galvanisation efficacement protégés contre le dépôt de couches d'alliage, un procédé pour la fabrication de ces éléments, et une méthode de galvanisation par trempé utilisant ces éléments.

Publication

EP 0646658 A1 19950405 (EN)

Application

EP 94113648 A 19940831

Priority

JP 24039293 A 19930901

Abstract (en)

To develop the invention, alloy layers that deposited on the surfaces of test samples were evaluated by performing a simulation with an experimental setup, in which a heater 1 held the interior of a furnace 8 at a predetermined temperature, a crucible 4 placed on a table 6 on the bottom of the furnace 8 contained a molten zinc-aluminum alloy 5, a thermal sprayed sample 2 retained by a rotating shaft 9 was mounted rotatably in a soft iron cylinder 3 having a window 7. Aluminum is added to ceramics or cermets having high resistance to the erosive action of molten zinc alloys in such an amount that the aluminum content is 0.5 - 10 wt% in the as-sprayed composition. The powder thus prepared is thermal sprayed to form coatings on those members which are to be used submerged in the bath of a continuous hot-dip galvanizing process. The members with such thermal sprayed coatings are protected very effectively against the deposition of unwanted alloy layers. Also provided are the articles having such protective coatings formed thereon, as well the process for producing them and the method of hot-dip galvanizing using those articles. <IMAGE>

IPC 1-7

C23C 2/06; C23C 4/10

IPC 8 full level

C23C 2/00 (2006.01); **C23C 2/06** (2006.01); **C23C 4/10** (2006.01); **C23C 24/04** (2006.01)

CPC (source: EP KR US)

C23C 2/00344 (2022.08 - EP KR US); **C23C 4/10** (2013.01 - EP KR); **C23C 4/123** (2016.01 - KR); **C25D 17/04** (2013.01 - KR)

Citation (search report)

- [DA] PATENT ABSTRACTS OF JAPAN
- [DA] PATENT ABSTRACTS OF JAPAN
- [A] PATENT ABSTRACTS OF JAPAN

Cited by

CN114686796A

Designated contracting state (EPC)

BE DE FR IT SE

DOCDB simple family (publication)

EP 0646658 A1 19950405; EP 0646658 B1 19961106; CN 1055509 C 20000816; CN 1107522 A 19950830; DE 69400856 D1 19961212; DE 69400856 T2 19970522; JP H0776763 A 19950320; KR 950008724 A 19950419; TW 287207 B 19961001

DOCDB simple family (application)

EP 94113648 A 19940831; CN 94117340 A 19940831; DE 69400856 T 19940831; JP 24039293 A 19930901; KR 19940021802 A 19940831; TW 83109038 A 19940930