

Title (en)

Galvanizing 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)

Éléments 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 B1 19961106 (EN)**

Application

**EP 94113648 A 19940831**

Priority

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Abstract (en)

[origin: EP0646658A1] 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>

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IPC 8 full level

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