

Title (en)  
PROCESS FOR THE ELECTROLYTIC ZINC PLATING OF STEEL

Publication  
**EP 0137540 A3 19870527 (DE)**

Application  
**EP 84201280 A 19840907**

Priority  
DE 3335009 A 19830928

Abstract (en)  
[origin: US4547269A] A process of electrodepositing zinc on steel wherein zinc-containing aqueous sulfuric acid electrolytes are used which contain one or more oxyacids of sulfur in which the sulfur has an oxidation number from +5 to +1. The phosphatizing of the resulting zinc coatings results in phosphate coatings which are virtually free of spots. Suitable oxyacids are sulfurous acid (H<sub>2</sub>SO<sub>3</sub>), sulfoxylic acid (H<sub>2</sub>SO<sub>2</sub>), hyposulfurous acid (H<sub>2</sub>S<sub>2</sub>O<sub>4</sub>) and/or thiosulfuric acid (H<sub>2</sub>S<sub>2</sub>O<sub>3</sub>) in the form of acids, salts and acid anhydrides. The oxyacids should be present in the electrolyte in a concentration of 0.05 to 10 g/l, preferably 0.1 to 2 g/l.

IPC 1-7  
**C25D 3/22**

IPC 8 full level  
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CPC (source: EP US)  
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Citation (search report)

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