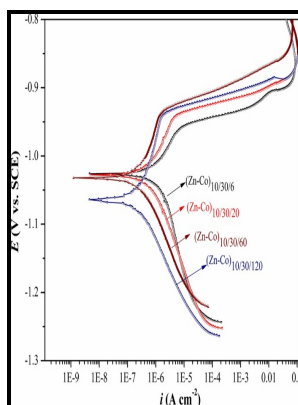


# Electrodeposition of compositionally modulated multilayer coatings for enhanced corrosion resistance

- - EP2440691B1



Description: -

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Chronoamperometric investigations combined with SEM reveal the nucleation mechanism changes from three-dimensional progressive to instantaneous, followed diffusion-limited growth during Zn-codeposition.

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Conductivity was measured using a AMEL model 2131 conductivity meter, while viscosity was evaluated using a Haake Viscotester VT5R rotational viscometer. Corrosion properties were found to vary, as expected, as a result of the solution employed to deposit the layer. When comparing ZnNi electrolytes with the pure metal solutions, it can be observed that Zn and Ni E on values shift.

## Corrosion behavior of composition modulated multilayer Zn

The corrosion behaviour of Zn-Co compositionally modulated multilayers electrodeposited from single and dual baths is described in Kirilova J.

## Corrosion study of Ni/Zn compositionally modulated multilayer coatings using electrochemical impedance spectroscopy

In this regard, the lower concentration of  $\text{ChCl}_3$ , from 33 to 15—25%, would result in an increase of the ionic conductivity despite the decrease in  $\text{Cl}^-$  concentration. Other similar water-soluble trivalent chromium salts are also usable in the practice of the invention.

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