

ABSTRACT

Electrically Conductive and Corrosion-Resistant Composite Coatings

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The invention provides a coated substrate comprising in order:

- a) a substrate
- b) a seed layer comprising a first transition metal or oxides thereof;
- c) one or more corrosion-resistant layers, each layer comprising first, second
10 and third sublayers comprising the first transition metal and a second transition metal,
wherein the ratio of the first and second transition metals varies between the sublayers;
- d) a conductive layer comprising the second transition metal, or nitrides and/or
oxides thereof.

- 15 Methods of making such coated substrates are also described. The coated substrates
possess good electrical conductivity and are resistant to corrosion.

Figure 1

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