

Title (en)  
FERRATE CONVERSION COATINGS FOR METAL SUBSTRATES

Title (de)  
FERRATKONVERSIONSSCHICHTEN AUF METALLSUBSTRATEN

Title (fr)  
REVETEMENT PAR CONVERSION DE SUBSTRATS METALLIQUES AVEC DU FERRATE

Publication  
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Application  
**EP 99966296 A 19991215**

Priority  
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Abstract (en)  
[origin: WO0036182A1] A method employing oxide film conversion coatings prepared using ferrate (VI) as the oxidizing agent is disclosed. Metal substrates or surfaces, such as aluminum, aluminum alloys or other metals, are contacted with an aqueous solution comprising ferrate (VI) anions to form a corrosion resistant conversion coating on the surface thereof. The ferrate anion concentration is preferably between about 0.0166 % and about 1.66 % by weight. The coating process is carried out by dipping, spraying, or painting at temperatures ranging from 25 DEG C to 100 DEG C for a period of time ranging from about 1 second to about 5 minutes.

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IPC 8 full level  
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Citation (examination)  
• US 2850416 A 19580902 - CASTLE JOHN E  
• US 2728695 A 19551227 - RUFFORD HARRISON JOHN  
• EP 0090512 A1 19831005 - LONDON NUCLEAR LTD [CA]

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