

Title (en)
ALUMINIUM-COATING SOLUTION, PROCESS AND CONCENTRATE

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Application
EP 80304673 A 19801222

Priority
• US 10701779 A 19791226
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Abstract (en)
[origin: EP0032306A1] A chromate-free acidic aqueous conversion-coating solution which is effective in forming a clear, colourless, corrosion-resistant conversion-coating on an aluminium surface, to which moreover subsequently-applied overlying siccative coatings will adhere tightly, contains a Group IVa metal selected from the group consisting of zirconium, titanium, hafnium and mixtures thereof, as well as fluoride and one or more additives, namely a polyhydroxy compound having no more than 7 carbon atoms, the solution being in that event free of phosphate and boron, or a surfactant or a mixture of said surfactant and said poly-hydroxy compound. The coating-solution is employed in processes for forming conversion-coatings on aluminium surfaces, especially those of aluminium cans, which may thereafter be given a decorative and/or sanitary lacquer or other siccative coating. The coated aluminium is shown to have superior properties. Concentrates are disclosed for making up and also for replenishing the coating solution.

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CPC (source: EP)
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Metals Handbook, Vol. 2, page 627, 1976

Cited by
USRE35688E; US5531820A; CN102575355A; GB2131052A; US8951362B2; WO9428193A1; WO2011044099A1; WO9114014A3;
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