

Title (en)

Aluminium-coating solution, process and concentrate.

Title (de)

Bad, Verfahren und Konzentrat zur Beschichtung von Aluminium.

Title (fr)

Bain, procédé et produit concentré pour le revêtement de l'aluminium.

Publication

EP 0032306 A1 19810722 (EN)

Application

EP 80304673 A 19801222

Priority

- US 10701779 A 19791226
- US 16573480 A 19800703

Abstract (en)

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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IPC 8 full level

C23C 22/34 (2006.01)

CPC (source: EP)

C23C 22/34 (2013.01)

Citation (search report)

- DE 2704261 A1 19780803 - METALLGESELLSCHAFT AG
- GB 1504494 A 19780322 - PYRENE CHEMICAL SERVICES LTD [JP]

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