

Title (en)

TITANIUM-FREE ACTIVATING AGENTS, PROCESS FOR PREPARING THEM AND THEIR USE IN ACTIVATING A METAL SURFACE BEFORE ZINC PHOSPHATING

Publication

**EP 0340530 B1 19920624 (DE)**

Application

**EP 89106998 A 19890419**

Priority

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Abstract (en)

[origin: EP0340530A1] The invention relates to titanium-free agents for the activation of metal surfaces of iron or steel, zinc or galvanised steel and also aluminium or aluminised steel before phosphating of the said surfaces with phosphating baths containing zinc ions, in particular before so-called low-zinc phosphating. The invention also relates to a process for preparing the titanium-free activating agents by reacting an alkali metal phosphate with complexing agents, and to the use of the titanium-free activating agents for the activation of metal surfaces before zinc phosphating.

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**C23C 22/78**

IPC 8 full level

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**EP 0340530 A1 19891108; EP 0340530 B1 19920624**; AR 240485 A1 19900430; AU 3378989 A 19891102; AU 608153 B2 19910321; BR 8902023 A 19891205; CA 1333989 C 19950117; DE 3814363 A1 19891109; DE 58901729 D1 19920730; ES 2032622 T3 19930216; JP H01316467 A 19891221; MX 172303 B 19931213; US 5039362 A 19910813; US 5112414 A 19920512

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