

Title (en)

RESOURCE-CONSERVING METHOD FOR ACTIVATING A METAL SURFACE PRIOR TO PHOSPHATING

Title (de)

RESSOURCENSCHONENDES VERFAHREN ZUR AKTIVIERUNG EINER METALLOBERFLÄCHE VOR EINER PHOSPHATIERUNG

Title (fr)

PROCÉDÉ ÉCONOME EN RESSOURCES PERMETTANT D'ACTIVER UNE SURFACE MÉTALLIQUE AVANT UNE PHOSPHATATION

Publication

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Application

EP 20807405 A 20201119

Priority

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- EP 2020082618 W 20201119

Abstract (en)

[origin: WO2021104976A1] The invention relates to a method for phosphatizing metal surfaces in a layer-forming manner using a colloidal aqueous solution as an activation stage, containing a dispersed particulate constituent, wherein in addition to dispersed inorganic compounds of phosphates of polyvalent metal cations, the particulate constituent contains polymeric organic compounds as dispersants, which are composed at least partly of styrene and/or an α -olefin with no more than 5 carbon atoms and at least partly of maleic acid and/or the anhydride and/or the imide thereof, and the polymeric organic compounds additionally comprise polyoxyalkylene units. The cleaning and rinsing stages preceding the activation stage as well as the activation stage itself can be carried out in a resource-saving manner using service water without any loss in activation performance in that the colloidal aqueous solution contains at least 0.5 mmol/L of alkaline earth metal ions dissolved in water.

IPC 8 full level

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CPC (source: EP KR US)

C23C 22/12 (2013.01 - US); **C23C 22/362** (2013.01 - EP KR); **C23C 22/73** (2013.01 - EP KR); **C23C 22/78** (2013.01 - EP KR)

Citation (examination)

- EP 3964606 A1 20220309 - HENKEL AG & CO KGAA [DE]
- EP 3954805 A1 20220216 - HENKEL AG & CO KGAA [DE]

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