

Title (en)

CONVEYING RACK CLEANING IN AN ELECTRODEPOSITION PROCESS

Title (de)

FÖRDERGESTELLREINIGUNG IN EINER PROZESSFOLGE ZUR ELEKTROTAUHLACKIERUNG

Title (fr)

NETTOYAGE DE CHÂSSIS DE TRANSPORT DANS UNE SUCCESSION DE PROCESSUS DE PEINTURE ÉLECTROPHORÉTIQUE PAR IMMERSION

Publication

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Application

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Priority

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- EP 2019061235 W 20190502

Abstract (en)

[origin: WO2019219395A1] The present invention relates to a method for the anti-corrosion coating of metallic components in series, comprising multiple wet-chemical treatment stages including cathodic electrodeposition which concludes the coating process, in which method each component is received by a conveying rack and the transport pair consisting of a component and a conveying rack is then conducted through all treatment stages before the coated component is separated from the conveying rack and an uncoated component is received by the same conveying rack for coating, wherein the build-up of solid coating deposits on the conveying racks is prevented in the method by the incorporation of an additional treatment stage before degreasing/cleaning and the subsequent passivation and electrodeposition. As a result, in the method according to the invention, the coating process from pretreatment to electrodeposition can be carried out economically in a single system ("single loop") since individual conveying elements do not need to be discharged for the removal of coating deposits as a result of the incorporation of the precleaning stage. The coating constituents which are received on the conveying racks from the cathodic electrodeposition are effectively removed in the context of the present invention in that the conveying racks and thereby also the components to be coated which are received by the conveying rack are simply brought into contact with an aqueous medium of suitable acidity containing phosphoric acid before passing through the wet-chemical treatment stages for degreasing/cleaning, passivation and cathodic electrodeposition.

IPC 8 full level

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