

Title (en)
SUPPRESSION OF PHOSPHATE DRAGGING RESULTING FROM THE PLANT DESIGN IN A DIP COATING PROCESS SEQUENCE

Title (de)
UNTERDRÜCKUNG ANLAGENBEDINGTER PHOSPHATÜBERSCHLEPPUNG IN EINER PROZESSFOLGE ZUR TAUCHLACKIERUNG

Title (fr)
INHIBITION DU TRANSPORT DE PHOSPHATES LIÉ AU DÉPÔT DANS UNE SUITE D'OPÉRATIONS JUSQU'AU LAQUAGE PAR IMMERSION

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Application
EP 17719525 A 20170413

Priority

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Abstract (en)
[origin: WO2017178619A1] The present invention relates to a method for the preliminary treatment against corrosion of a plurality of metallic components, in which dragging of water-soluble phosphates from an acid passivation process using water-dissolved phosphates as the active components, and which can be, in particular, a phosphating process, into the dip coating treatment stage, is effectively prevented. In the method according to the invention, a component is conveyed by a conveyor frame through all the treatment stages of the preliminary treatment line, and the conveyance pair consisting of the component and of the conveyor frame is only separated after dip coating for transferring the pre-treated component to the firing stage, releasing the conveyor frame to receive again a component to be pre-treated. In the process according to the invention, the transport pair consisting of the component and the conveyor frame passes before dip coating and immediately after acid passivation through an intermediate treatment stage, wherein at least the part of the conveyor frame having been previously brought into contact with the aqueous treatment solution containing water-soluble phosphates during acid passivation, is then brought into contact with an acid aqueous medium containing a total amount of at least 0.1 g/kg, relative to the medium, of water-soluble compounds of the elements Zr, Ti, Cr(III) and/or Al.

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