

Title (en)

MODIFICATION OF THE COMPOSITION OF THE FLUX SOLUTION FOR HOT-DIP BATCH GALVANIZING OF STEEL PARTS

Title (de)

VERÄNDERUNG DER ZUSAMMENSETZUNG EINER FLUSSMITTELLÖSUNG FÜR STÜCKFEUERVERZINKUNG VON STAHLTEILEN

Title (fr)

MODIFICATION DE LA COMPOSITION DE LA SOLUTION DE FLUX POUR LA GALVANISATION EN LOTS PAR TREMPAGE À CHAUD DE PIÈCES D'ACIER

Publication

EP 2430206 B1 20130703 (EN)

Application

EP 10711936 A 20100217

Priority

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- IT AL20090002 A 20090219

Abstract (en)

[origin: WO2010095154A1] The present invention aims at contributing to the solution of potential problems arising from the presence of ZnCl₂ in the galvanizing shop, by means of a procedure for the preparation of surface of pre-fabricated steel pieces to be hot-dip galvanized in a Zn-Al-alloy, according to which the concentration of ZnCl₂ into the flux solution is maintained below the limit prescribed by the law and preferably down to zero. According to this procedure, the steel pieces, after pickling are immersed into an aqueous solution containing ZnCl₂, NH₄Cl and Bi₂O₃. Using the flux solution according to the present invention it is possible to coat in a batch galvanizing bath containing a Zn-Al-alloy, carbon steels and steels with high Si content, and/or Mn, and/or P (i.e. steels commercially known as Sandelin or Iper-sandelin steels), usually considered difficult steels for galvanizing, obtaining coatings with uniform thickness, with no surface defects and with a smooth surface without non-homogeneous areas.

IPC 8 full level

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