Title (en)

PROCESS AND DEVICE FOR THE ELECTROLYTIC SURFACE COATING OF WORKPIECES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ELEKTROLYTISCHEN OBERFLÄCHENBESCHICHTUNG VON WERKSTÜCKEN

Title (fr)

PROCEDE ET DISPOSITIF DE DEPOT ELECTROLYTIQUE D'UN REVETEMENT SUPERFICIEL DE PIECES

Publication

EP 0694090 A1 19960131 (DE)

Application

EP 94905645 A 19940215

Priority

CH 9400031 W 19940215

Abstract (en)

[origin: WO9521952A1] In the novel and advantageous process for electrolytically surface-coating special metal workpieces it is important for the electrolyte to be conveyed in a controlled circuit in and around the electrolysis region in which most of it is conveyed at a high flow rate, possibly at a higher inlet pressure, through the space between the cathodically connected workpiece and the anode and a smaller proportion of it is conveyed at a lower flow rate upwards to the rear of the anode away from the cathode. After leaving the electrolysis region the electrolyte is taken into a separate overflow tank and conveyed therefrom again into and around the electrolysis region between the anode and the cathode. Anode sludge is separated off in the overflow tank and/or in the feedback system. The device for implementing said process has an actual electrolysis tank (1.01), inlet lines (1.05) or apertures (1.06, 1.07) for the electrolyte at the base of the chamber between the cathodically connected workpiece (1.04) and the anode (1.03) or below behind the anode, at least one overflow tank (1.08) connected on or beneath the electrolysis container into which the electrolyte is fed after passing though the electrolysis region and a feedback device for the electrolyte with a filter (1.11).

IPC 1-7

C25D 21/06; C25D 21/10

IPC 8 full level

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CPC (source: EP US)

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