Title (en)

METHOD FOR DIMENSIONING AN ELECTROPLATING ENCLOSURE WITH A MAGNETIC WIPING DEVICE FOR ELECTROPLATED METALLURGICAL PRODUCTS

Title (de)

DIMENSIONIERUNG EINES BESCHICHTUNGSBEHAELTERS MIT EINER MAGNETISCHEN WISCHVORRICHTUNG VON MIT FLUSSIGEM METALL BESCHICHTETEN METALLURGISCHEN MATERIALEN

Title (fr)

PROCEDE DE DIMENSIONNEMENT D'UNE ENCEINTE DE GALVANISATION POURVUE D'UN DISPOSITIF D'ESSUYAGE MAGNETIQUE DE PRODUITS METALLURGIQUES GALVANISES

Publication

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Application

EP 94922281 A 19940720

Priority

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Abstract (en)

[origin: FR2700555A1] A method is claimed for dimensioning a galvanising enclosure provided with at least one magnetic sealing and/or wiping device for the sides of the product leaving the galvanising bath to return the galvanising liquid to the bath. The wiping device is pref an induction element producing a transverse, alternating and sliding magnetic field over the surface of the product. The dimensioning process consists of calculating or verifying the transverse dimensions of the enclosure, its axial length, the transverse section of the product, their speed, the dynamic viscosity of the coating liquid, its pressure in the enclosure, the transverse dimensions of the outlet channel of the enclosure, the speed of displacement of the magnetic field and its intensity in the galvanising liquid and finally a parameter representative of the rugosity of the product, the conditions for which the 'Couette' lengths associated respectively with the flow of the coating liquid, in the enclosure and in its outlet channel, remain below critical values beyond which the flow gradually become clearly turbulent.

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C23C 2/24

IPC 8 full level

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CPC (source: EP)

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