

Title (en)
METHOD FOR RECOVERING CHROMIUM CONTAINED IN A BATH FOR PICKLING METALLIC MATERIALS AND FACILITY FOR IMPLEMENTING SAME

Title (de)
VERFAHREN ZUR RÜCKGEWINNUNG VON CHROM IN EINEM BAD ZUM BEIZEN METALLISCHER MATERIALIEN UND ANLAGE ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)
PROCÉDÉ DE RÉCUPÉRATION DU CHROME CONTENU DANS UN BAIN DE DÉCAPAGE DE MATÉRIAUX MÉTALLIQUES ET INSTALLATION POUR SA MISE EN OEUVRE

Publication
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Application
EP 19769592 A 20190906

Priority
IB 2019057527 W 20190906

Abstract (en)
[origin: WO2021044200A1] Method for recovering Cr from a bath for pickling metallic materials (1), the bath (1) being an aqueous solution containing at least one sulphate and Cr from the pickled metal, the method comprising the steps of: - forming an aqueous two-phase system from at least one portion of the pickling bath (1) and a polymer comprising an unhindered ether function, the proportion of polymer in the ternary mixture consisting of the pickling bath, which is considered to be a unique chemical component, water and polymer, being such that it ranges between the line of the equation 'wt % of polymer = 100% - wt % of the pickling bath' and the binodal curve of the pickling bath/polymer mixture, the two-phase aqueous system comprising a polymer phase, in which most of the Cr is located, and a non-polymer phase; - separating the polymer and non-polymer phases; - allowing precipitates containing the Cr to form in the polymer phase; - carrying out solid/liquid separation of the polymer phase so as to separate the polymer and the precipitates containing the Cr; - and processing the precipitates to recover the Cr they contain. Facility for implementing said method.

IPC 8 full level
C23F 1/46 (2006.01); **C01G 37/00** (2006.01); **C22B 34/32** (2006.01)

CPC (source: EP KR US)
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Citation (search report)
See references of WO 2021044200A1

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