Title (en)

METHOD FOR PREVENTING STRAY CURRENTS IN PERIPHERAL SYSTEM PARTS DURING AN ELECTROLYSIS PROCESS FOR OBTAINING METALS

Title (de)

VERFAHREN ZUM VERHINDERN VON STREUSTRÖMEN IN PERIPHEREN ANLAGENTEILEN IN EINER ELEKTROLYSE ZUM GEWINNEN VON METALLEN

Title (fr)

PROCEDE PERMETTANT D'EMPECHER DES COURANTS DE FUITE DANS DES ELEMENTS PERIPHERIQUES D'UNE INSTALLATION D'ELECTROLYSE DESTINEE A L'EXTRACTION DE METAUX

Publication

**EP 1230439 B1 20030716 (DE)**

Application

**EP 00941961 A 20000519**

Priority

• DE 19940699 A 19990827
• EP 0004524 W 20000519

Abstract (en)

[origin: US6547949B1] The electrolyte is supplied from a reservoir through at least one supply line to an electrolysis area including anodes and cathodes and at least one electric d.c. voltage source, and used electrolyte is at least partly recirculated from the electrolysis area back to the reservoir through at least one discharge line. Between a first contact point in the electrolyte of the supply line and a second contact point in the electrolyte of the discharge line there is a bridge line containing electrolyte, where the ohmic resistance R1 of the electrolyte in the bridge line between the first and the second contact point is not more than 10% of the ohmic resistance R2 which exists between the first and the second contact point in the electrolyte flowing through the reservoir. The amount of electrolyte flowing through the bridge line per unit time is not more than 5% of the amount of electrolyte flowing in the supply line in the vicinity of the first contact point.

IPC 1-7

**C25C 7/06**

IPC 8 full level

**C25C 1/00** (2006.01); **C25C 7/00** (2006.01); **C25C 7/06** (2006.01)

CPC (source: EP US)

**C25C 1/00** (2013.01 - EP US); **C25C 7/00** (2013.01 - EP US)

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