

Title (en)

PROCESS AND DEVICE FOR REGENERATING ALKALINE SOLUTIONS FOR PICKLING ALUMINIUM.

Title (de)

VERFAHREN UND VORRICHTUNG ZUM REGENERIEREN VON ALKALIHALTIGEN ALUMINIUMBEIZLÖSUNGEN.

Title (fr)

PROCEDE ET DISPOSITIF DE REGENERATION DE REACTIFS ALCALINS D'ATTAQUE MICROGRAPHIQUE DE L'ALUMINIUM.

Publication

EP 0519987 B1 19941207

Application

EP 91906096 A 19910315

Priority

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- EP 9100491 W 19910315

Abstract (en)

[origin: DE4008379A1] In a process for regenerating alkaline solutions for pickling aluminium, in which aluminium hydroxide is recovered, a pickling solution containing alkali hydroxide, aluminate, a complex builder and other additives is transferred from a pickling bath into a reactor section consisting of at least one reactor, where aluminium is precipitated as aluminium hydroxide. The temperature of the pickling bath is higher than that of the reactor section. The process is operated so that the concentration of aluminate, alkali and gluconate and the temperature in the pickling bath, on the one hand, and the temperature drop from the pickling bath to the reactor section, on the other hand, are adjusted so that the pickling solution in the pickling bath is undersaturated or metastably supersaturated in relation to the precipitation of aluminium hydroxide but unstably supersaturated in the reaction section. A device for carrying out the process of the invention is also disclosed.

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IPC 8 full level

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C23G 1/36 (2013.01)

Citation (examination)

CHEMICAL ABSTRACTS, Bd. 84, 1979, Seite 301, Zusammenfassung Nr. 110 145t, Columbus, Ohio, US; & JP-A-50 142 433

Cited by

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