Title (en)

PROCESS AND REACTOR FOR THE PLASMA TRANSFORMATION OF POWDERY BY-PRODUCTS OF BAUXITE PROCESSING INTO A SOLID, INERT AND COMPACT PRODUCT

Title (de)

VERFAHREN UND REAKTOR ZUR PLASMAUMWANDLUNG VON PULVERFÖRMIGEN NEBENPRODUKTEN AUS DER VERARBEITUNG VON BAUXIT IN EIN INERTES UND KOMPAKTES FESTSTOFFRODUKT

Title (fr)

PROCÉDÉ ET RÉACTEUR POUR LA TRANSFORMATION PAR PLASMA DE SOUS-PRODUITS PULVÉRULENTS DE TRAITEMENT DE BAUXITE EN PRODUIT SOLIDE, INERTE ET COMPACT

Publication

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Application

**EP 11782686 A 20111006**

Priority

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- IT 2011000343 W 20111006

Abstract (en)

[origin: WO2012049696A1] Subject matter of the present invention are a process and a plasma reactor for transformation of red muds, which is a bauxite processing by-product, starting from powdery matrix into a solid, inert and compact residual product, with a remarkably reduced volume, permitting increasing life cycle of dumps using available volumes and from which industrially interesting products can be extracted, e.g. an iron-containing fraction, that can be used in a production cycle of the steel-making sector. A block diagram of the process according to the invention, in one specific embodiment within a transferred arc plasma reactor, is shown in figure 1.

IPC 8 full level

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CPC (source: EP)

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