

Title (en)

METHOD FOR PICKLING PRODUCTS OF A METAL ALLOY CONTAINING IRON AND OF TITANIUM AND ALLOYS THEREOF

Title (de)

VERFAHREN ZUM BEIZEN VON EISEN ENTHALTENDEN METALLEGIERUNGEN UND TITAN UND SEINEN LEGIERUNGEN

Title (fr)

PROCEDE DE DECAPAGE DE PRODUITS CONSTITUES D'UN ALLIAGE DE METAUX CONTENANT DU FER ET DE PRODUITS REALISES EN TITANE OU EN ALLIAGES DE TITANE

Publication

EP 0960221 B1 20020313 (EN)

Application

EP 97949093 A 19971205

Priority

- IT 9700300 W 19971205
- IT RM960849 A 19961209

Abstract (en)

[origin: WO9826111A1] A method for pickling products made of metal alloys containing iron, and products made of titanium and alloys thereof, in the absence of nitric acid as an oxidising agent, characterised by the fact that the product to be pickled is submerged in the anolyte (as the pickling solution) of an electrolytic cell in which the anolyte is made up of an aqueous solution of sulphuric acid, of hydrofluoric acid and optionally of phosphoric acid and hydrochloric acid, and with the catholyte made up of an aqueous solution of sulphuric acid and the oxidising agent in the pickling solution being the ferric ion, or the ions titanium(III) and titanium(IV).

IPC 1-7

C23G 1/26; **C23G 1/10**

IPC 8 full level

C23G 1/08 (2006.01); **C23G 1/10** (2006.01); **C23G 1/36** (2006.01)

CPC (source: EP)

C23G 1/086 (2013.01); **C23G 1/106** (2013.01); **C23G 1/36** (2013.01); **C25F 1/06** (2013.01); **C25F 1/08** (2013.01)

Cited by

CN103572303A

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9826111 A1 19980618; AT E214436 T1 20020315; AU 7847898 A 19980703; DE 69711090 D1 20020418; DE 69711090 T2 20030724; EP 0960221 A1 19991201; EP 0960221 B1 20020313; ES 2178023 T3 20021216; IT 1288407 B1 19980922; IT RM960849 A0 19961209; IT RM960849 A1 19980609; TW 451001 B 20010821; ZA 9710983 B 19980615

DOCDB simple family (application)

IT 9700300 W 19971205; AT 97949093 T 19971205; AU 7847898 A 19971205; DE 69711090 T 19971205; EP 97949093 A 19971205; ES 97949093 T 19971205; IT RM960849 A 19961209; TW 87103408 A 19980309; ZA 9710983 A 19971208