

Title (en)
Process for pickling stainless steel

Title (de)
Verfahren zum Beizen von Edelstahl

Title (fr)
Procédé de décapage d'acier inoxydable

Publication
EP 0972854 B1 20050504 (DE)

Application
EP 99111754 A 19990618

Priority
AT 121798 A 19980715

Abstract (en)
[origin: EP0972854A2] A special steel pickling process, employing a hot aqueous hydrochloric acid solution, is new. A special steel pickling process uses an aqueous hydrochloric acid solution at ≥ 40 degrees C. Preferred Features: The solution contains one or more oxidizing agents selected from nitric acid, chlorine, hydrogen peroxide, chlorine-oxygen compounds, other chlorine-containing acids (e.g. perchloric acid), chromium-oxygen compounds (e.g. CrO₃) and ferric chloride, in amount such that at least half of the dissolved metal is in the form of ferric chloride.

IPC 1-7
C23G 1/08

IPC 8 full level
C23G 1/02 (2006.01); **C23G 1/08** (2006.01)

CPC (source: EP KR US)
C23G 1/02 (2013.01 - KR); **C23G 1/08** (2013.01 - EP US)

Cited by
CN103695940A; CN103695925A; CN103695934A

Designated contracting state (EPC)
BE DE ES FI FR IT SE

DOCDB simple family (publication)
EP 0972854 A2 20000119; EP 0972854 A3 20000719; EP 0972854 B1 20050504; AT 407755 B 20010625; AT A121798 A 20001015; DE 59912005 D1 20050609; ES 2242330 T3 20051101; KR 100592567 B1 20060626; KR 20000011310 A 20000225; TW 475008 B 20020201; US 6250314 B1 20010626

DOCDB simple family (application)
EP 99111754 A 19990618; AT 121798 A 19980715; DE 59912005 T 19990618; ES 99111754 T 19990618; KR 19990022557 A 19990616; TW 88108564 A 19990525; US 35377699 A 19990715