

Title (en)  
STRIPPER FOR SPECIAL STEEL

Title (de)  
BEIZMITTEL FÜR EDELSTÄHLE

Title (fr)  
DECAPANT POUR ACIERS SPECIAUX

Publication  
**EP 1100982 B1 20021204 (DE)**

Application  
**EP 99942796 A 19990722**

Priority  
• DE 19833990 A 19980729  
• EP 9905226 W 19990722

Abstract (en)  
[origin: US2004053801A1] The inventive aqueous pickling agent on the basis of sulfuric acid or phosphoric acid and hydrogen fluoride for stainless steels, which pickling agent is free of wetting and emulsifying agents, contains (each as 100 wt-% substance) 1.5 to 16 wt-% sulfuric acid or 2.0 to 30 wt-% phosphoric acid as well as 0.5 to 14 wt-% hydrogen fluoride and 0.5 to 15.5 wt-% acid-soluble aromatic nitro compound. An iron(III) compound is not supplied to said pickling agent. Merely in the starting phase, an oxidizing agent can be supplied, which oxidizes iron(II) to form iron(III). As acid-soluble aromatic nitro compound m-nitrobenzene sulfonate and/or 3-nitrophthalate are particularly advantageous. The inventive pickling agent can be used as bath pickle and when adding 2.5 to 5.5 wt-% magnesium and/or magnesium compound (calculated as Mg)-also as spraying pickle or brush pickle.

IPC 1-7  
**C23G 1/08**; **C23G 1/02**

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

CPC (source: EP US)  
**C23G 1/025** (2013.01 - EP US); **C23G 1/086** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**US 2004053801 A1 20040318**; **US 7041629 B2 20060509**; AT E229098 T1 20021215; CA 2338484 A1 20000210; DE 19833990 A1 20000210; DE 59903669 D1 20030116; EP 1100982 A1 20010523; EP 1100982 B1 20021204; WO 0006797 A1 20000210

DOCDB simple family (application)  
**US 64865803 A 20030826**; AT 99942796 T 19990722; CA 2338484 A 19990722; DE 19833990 A 19980729; DE 59903669 T 19990722; EP 9905226 W 19990722; EP 99942796 A 19990722