

Title (en)
PRODUCT AND METHOD FOR CLEANING TITANIUM SURFACES

Title (de)
PRODUKT UND VERFAHREN ZUR REINIGUNG VON TITANOBERFLÄCHEN

Title (fr)
PRODUIT NETTOYANT ET PROCEDE DE NETTOYAGE DE SURFACES EN TITANE

Publication
EP 1447461 A1 20040818 (EN)

Application
EP 01976326 A 20011024

Priority
ES 0100401 W 20011024

Abstract (en)
The cleaning product includes, separately, (A) a descaling substance consisting of a mixture of nitric acid and hydrofluoric acid, a thickener, a surfactant, an indicator, water and, optionally, a propellant; and (B) a fixative composition that consists of a base, a thickener, a surfactant and a propellant. This cleaning product is useful for cleaning titanium surfaces such as titanium facades and panels.

IPC 1-7
C23G 1/02; C23F 1/16; C23F 3/06

IPC 8 full level
B08B 3/08 (2006.01); **C11D 1/14** (2006.01); **C11D 3/02** (2006.01); **C11D 3/04** (2006.01); **C11D 3/06** (2006.01); **C11D 3/08** (2006.01); **C11D 3/12** (2006.01); **C11D 3/18** (2006.01); **C11D 3/22** (2006.01); **C11D 3/24** (2006.01); **C11D 3/37** (2006.01); **C11D 3/40** (2006.01); **C11D 10/02** (2006.01); **C11D 11/00** (2006.01); **C11D 17/00** (2006.01); **C11D 17/08** (2006.01); **C23G 1/00** (2006.01); **C23G 1/02** (2006.01); **C23G 1/04** (2006.01); **C23G 1/10** (2006.01); **C23G 1/20** (2006.01)

CPC (source: EP US)
C11D 3/042 (2013.01 - EP US); **C11D 3/044** (2013.01 - EP US); **C11D 3/1266** (2013.01 - EP US); **C11D 3/222** (2013.01 - EP US); **C11D 17/003** (2013.01 - EP US); **C11D 17/0043** (2013.01 - EP US); **C23G 1/00** (2013.01 - EP US); **C23G 1/02** (2013.01 - EP US); **C23G 1/103** (2013.01 - EP US); **C23G 1/106** (2013.01 - EP US); **C23G 1/205** (2013.01 - EP US); **C11D 2111/16** (2024.01 - EP US)

Citation (search report)
See references of WO 03035933A1

Cited by
CZ303547B6; EP1918093A1; EP1921271A3; EP2130616A1; FR2931711A1; CN108026480A; AU2016296113B2; RU2713190C2; US8846594B2; US8791057B2; US9133714B2; WO2010012969A1; US8273697B2; US10000728B2; US7547671B2; WO2017014867A1; EP3325593B1

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

DOCDB simple family (publication)
EP 1447461 A1 20040818; **EP 1447461 B1 20071212**; AT E380891 T1 20071215; BR 0117162 A 20040908; CA 2463954 A1 20030501; DE 60131908 D1 20080124; ES 2294034 T3 20080401; JP 2005506452 A 20050303; US 2004221870 A1 20041111; WO 03035933 A1 20030501

DOCDB simple family (application)
EP 01976326 A 20011024; AT 01976326 T 20011024; BR 0117162 A 20011024; CA 2463954 A 20011024; DE 60131908 T 20011024; ES 0100401 W 20011024; ES 01976326 T 20011024; JP 2003538427 A 20011024; US 83056404 A 20040422