

Title (en)
STEEL PARTS MADE OF AUSTENITIC OR SEMI-AUSTENITIC STEEL IN A PLANT FOR PRODUCING SULFURIC ACID AND METHOD FOR THE PROTECTION AGAINST CORROSION

Title (de)
AUS AUSTENITISCHEM ODER HALBAUSTENITISCHEM STAHL BESTEHENDE TEILE EINER ANLAGE ZUR HERSTELLUNG VON SCHWEFELSÄURE UND VERFAHREN ZUM KORROSIONSCHUTZ

Title (fr)
PIECES EN ACIER AUSTENITIQUE OU SEMI-AUSTENITIQUE DANS UNE INSTALLATION DE PRODUCTION D'ACIDE SULFURIQUE ET PROCEDE DE PROTECTION CONTRE LA CORROSION

Publication
EP 1409756 A1 20040421 (EN)

Application
EP 02743117 A 20020528

Priority
• DE 10128032 A 20010608
• EP 0205842 W 20020528

Abstract (en)
[origin: US2004238375A1] This invention relates to a method for the protection against corrosion of steel parts made of austenitic or semi-austenitic steel during the production of sulfuric acid. To improve the corrosion resistance of the steel parts which are in contact with the sulfuric acid, it is proposed to use austenitic or semi-austenitic steel which has a Cr content of 15 wt-% to 36 wt-% and an Ni content of 9 wt-% to 60 wt-% and in which the ratio of the chemical elements (Cr+Si)/(Ni+Mo) lies in the range from 0.9 to 1.9 or in which the ratio of the chemical elements Cr/(Ni+Mo) lies in the range from 0.8 to 1.5, and to additionally provide this steel part with an anodic corrosion protection.

IPC 1-7
C22C 19/05; **C22C 38/44**; **C23F 13/00**

IPC 8 full level
C22C 19/05 (2006.01); **C22C 38/00** (2006.01); **C22C 38/44** (2006.01); **C23F 13/00** (2006.01); **F28F 19/00** (2006.01); **F28F 21/08** (2006.01)

CPC (source: EP KR US)
C22C 38/44 (2013.01 - EP US); **C23F 13/00** (2013.01 - KR); **C23F 13/005** (2013.01 - EP US); **F28F 19/004** (2013.01 - EP US); **F28F 21/082** (2013.01 - EP US)

Citation (search report)
See references of WO 02101106A1

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)
US 2004238375 A1 20041202; AT E340274 T1 20061015; DE 10128032 A1 20021212; DE 60214859 D1 20061102; DE 60214859 T2 20070412; EA 006778 B1 20060428; EA 200400008 A1 20040429; EP 1409756 A1 20040421; EP 1409756 B1 20060920; ES 2272733 T3 20070501; JP 2004529274 A 20040924; KR 20040023612 A 20040318; MX PA03011234 A 20040226; PE 20030023 A1 20030203; WO 02101106 A1 20021219

DOCDB simple family (application)
US 47930404 A 20040709; AT 02743117 T 20020528; DE 10128032 A 20010608; DE 60214859 T 20020528; EA 200400008 A 20020528; EP 0205842 W 20020528; EP 02743117 A 20020528; ES 02743117 T 20020528; JP 2003503852 A 20020528; KR 20037016039 A 20031208; MX PA03011234 A 20020528; PE 2002000475 A 20020607