

Title (en)

USE OF FERRITIC CHROMIUM-MOLYBDENUM STEELS AS MATERIALS RESISTING CONCENTRATED SULFURIC ACID

Publication

EP 0361554 B1 19930609 (DE)

Application

EP 89202071 A 19890810

Priority

DE 3830365 A 19880907

Abstract (en)

[origin: US5030415A] Ferritic chromium-molybdenum steels containing 26 to 30% chromium 1.8 to 3.0% molybdenum 3.0 to 4.5% nickel carbon< /=0.02% silicon< /=1.00% manganese< /=1.00% sulfur< /=0.015% carbon+nitrogen< /=0.045% niobium> /=12x%C< /=1.2% balance iron and impurities which are due to the melting technology are used as corrosion-resisting material to make structural parts which are resistant to sulfuric acid in a concentration of and above 94% by weight and at a temperature up to the boiling point of the sulfuric acid.

IPC 1-7

C22C 38/44; C22C 38/48

IPC 8 full level

C22C 38/00 (2006.01); **C22C 38/26** (2006.01); **C22C 38/28** (2006.01); **C22C 38/44** (2006.01); **C22C 38/48** (2006.01); **F28F 21/08** (2006.01)

CPC (source: EP US)

C22C 38/44 (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **F28F 21/082** (2013.01 - EP US)

Citation (examination)

- EP 0018131 A1 19801029 - KUREHA CHEMICAL IND CO LTD [JP]
- STAHL UND EISEN, 1990; Seite 73#
- STAHLSCHLÜSSEL, 1985; Seite 344, Nr. 41#
- STAHLSCHLÜSSEL, 1992; Seite 292, Nr. 1.4575#

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US5695716A; EP0609618A1; ES2351281A1

Designated contracting state (EPC)

BE DE ES FR GB IT NL SE

DOCDB simple family (publication)

EP 0361554 A1 19900404; EP 0361554 B1 19930609; AU 4107389 A 19900315; AU 615105 B2 19910919; DE 3830365 A1 19900315; DE 3830365 C2 19960627; DE 58904618 D1 19930715; ES 2040981 T3 19931101; JP 3137968 B2 20010226; JP H02107745 A 19900419; US 5030415 A 19910709; ZA 896817 B 19910529

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EP 89202071 A 19890810; AU 4107389 A 19890906; DE 3830365 A 19880907; DE 58904618 T 19890810; ES 89202071 T 19890810; JP 23268289 A 19890907; US 39811489 A 19890824; ZA 896817 A 19890906