

Title (en)

Method of carburizing austenitic stainless steel and austenitic stainless steel products obtained thereby

Title (de)

Verfahren zur Aufkohlung von austenitischem rostfreien Stahl und Produkte aus aufgekohltem austenitischem rostfreien Stahl

Title (fr)

Procédé de cémentation de l'acier inoxydable austénitique et produits austénitiques cémentés en acier inoxydable

Publication

**EP 0787817 A2 19970806 (EN)**

Application

**EP 96302671 A 19960417**

Priority

JP 1436596 A 19960130

Abstract (en)

A method of carburizing austenitic stainless steel comprising the steps of holding austenitic stainless steel in a fluorine- or fluoride-containing gas atmosphere with heating prior to carburizing and carburizing the austenitic stainless steel at a temperature not more than 680 DEG C wherein said austenitic stainless steel is stable austenitic stainless steel having 1 to 6 weight % molybdenum or 13 to 25 weight % chromium, wherein a carburized hard layer having corrosion resistance superior to base material forms and austenitic stainless steel products obtained thereby.

IPC 1-7

**C23C 8/02**; **C23C 8/34**

IPC 8 full level

**C23C 8/34** (2006.01)

CPC (source: EP KR)

**C21D 1/06** (2013.01 - KR); **C23C 8/02** (2013.01 - KR); **C23C 8/22** (2013.01 - KR); **C23C 8/34** (2013.01 - EP)

Cited by

DE102005060954B4; EP2172685A2; WO2015087154A1; WO2022056087A2; WO2023235668A1; WO2015171698A1; US10156006B2; US10450658B2; US10934611B2; US10214805B2; US10604832B2; EP4086366A1; US11473183B2; US9617632B2; US10246766B2; WO2021113623A1; US11035032B2; WO2021222343A1; US11885027B2; WO2019241011A1; US11193197B2; US11649538B2; US6547888B1; EP2497842A1; WO2022232340A1

Designated contracting state (EPC)

DE FR GB IT NL SE

DOCDB simple family (publication)

**EP 0787817 A2 19970806**; **EP 0787817 A3 19990127**; CN 1140649 C 20040303; CN 1160774 A 19971001; HK 1002363 A1 19980821; KR 970059302 A 19970812; TW 336257 B 19980711

DOCDB simple family (application)

**EP 96302671 A 19960417**; CN 97101054 A 19970127; HK 98101417 A 19980224; KR 19960019892 A 19960605; TW 85103846 A 19960402