

Title (en)  
HIGH STRENGTH STAINLESS STEEL, AND PROCESS FOR ITS PRODUCTION

Publication  
**EP 0241553 B1 19920617 (EN)**

Application  
**EP 85905113 A 19851015**

Priority  
JP 8500573 W 19851015

Abstract (en)  
[origin: WO8702388A1] Austenite stainless steel containing, by weight, 0.03% or less C, 2.00% or less Si, 5.0% or less Mn, 0.030% or less S, 16 to 20% Cr, 6 to 13% Ni, 0.15 to 0.28% N, 0.05 to 0.25% Nb, 0.0020% or less B, the balance of Fe and impurity elements and, optionally, 4% or less Mo, 4% or less Cu, and 0.005 to 0.080% Se, and process for its production. This stainless steel has excellent strength, excellent grain boundary resistance, stress-corrosion cracking resistance, and excellent hot workability, thus being useful as strength-providing members for use in various chemical plants, desalination plants, nuclear plants, etc.

IPC 1-7  
**C21D 8/00**; **C22C 38/54**; **C22C 38/58**

IPC 8 full level  
**C21D 8/00** (2006.01); **C22C 38/00** (2006.01); **C22C 38/54** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP)  
**C21D 8/005** (2013.01); **C22C 38/001** (2013.01); **C22C 38/54** (2013.01); **C22C 38/58** (2013.01)

Citation (examination)

- JP S558404 A 19800122 - NIPPON STEEL CORP
- JP S60100621 A 19850604 - NIPPON STEEL CORP
- JP S6089518 A 19850520 - SUMITOMO METAL IND
- JP S54151505 A 19791128 - KOBE STEEL LTD

Cited by  
EP0260022B1

Designated contracting state (EPC)  
DE FR GB SE

DOCDB simple family (publication)  
**WO 8702388 A1 19870423**; DE 3586247 D1 19920723; DE 3586247 T2 19930225; EP 0241553 A1 19871021; EP 0241553 A4 19890118; EP 0241553 B1 19920617

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