

Title (en)  
Austenitic iron base alloy.

Title (de)  
Austenitische Eisenlegierung.

Title (fr)  
Alliage austénitique à base de fer.

Publication  
**EP 0037446 A1 19811014 (EN)**

Application  
**EP 80303047 A 19800902**

Priority  
US 11052580 A 19800109

Abstract (en)  
An austenitic stainless steel is described for use in an environment where the steel will be subject to neutron irradiation. The steel exhibits a good phase stability in both the annealed as well as cold work condition and above all a superior resistance to radiation induced swelling. The alloy contains from 1.5% to 2.5% manganese, from 0.5% to 1.1% silicon, from 12% to 14% chromium, from 14% to 16% nickel, from 1.2% to 1.7% molybdenum, from 0.2% to 0.5% titanium, up to 0.1% zirconium, up to 0.01% boron the balance being iron with incidental impurities.

IPC 1-7  
**C22C 38/44**

IPC 8 full level  
**C22C 38/00** (2006.01); **C22C 38/44** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP)  
**C22C 38/44** (2013.01); **C22C 38/50** (2013.01); **C22C 38/54** (2013.01)

Citation (search report)  
• [X] GB 993613 A 19650602 - SANDVIKENS JERNVERKS AB  
• US 4158606 A 19790619 - BLOOM EVERETT E, et al

Cited by  
EP0106426A1; US7311875B2; EP0089436A3; FR2790089A1; EP0078440A3; FR2642437A1; EP0121630A3

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