

Title (en)
AUSTENITIC IRON BASE ALLOY

Publication
EP 0037446 B1 19850605 (EN)

Application
EP 80303047 A 19800902

Priority
US 11052580 A 19800109

Abstract (en)
[origin: EP0037446A1] 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)

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

Designated contracting state (EPC)
BE DE FR GB IT SE

DOCDB simple family (publication)
EP 0037446 A1 19811014; EP 0037446 B1 19850605; DE 3070736 D1 19850711; JP S5698460 A 19810807

DOCDB simple family (application)
EP 80303047 A 19800902; DE 3070736 T 19800902; JP 12414780 A 19800909