

Title (en)

Stainless austenitic steel with low nickel content

Title (de)

Rostfreier austenitischer Stahl mit niedrigem Nickelgehalt

Title (fr)

Acier inoxydable austenitique à basse teneur en nickel

Publication

**EP 0969113 B1 20021106 (FR)**

Application

**EP 99401490 A 19990617**

Priority

FR 9808427 A 19980702

Abstract (en)

[origin: EP0969113A1] The steel contains (in wt.%): 0.01-0.08 carbon, 0.1-1 silicon, 5-11 manganese, 15-17.5 chromium, 1-4 nickel, 1-4 copper, 1 x 10<-4>-20 x 10<-4> sulfur, 1 x 10<-4>-50 x 10<-4> calcium, 0-0.003 aluminum, 0.005-0.1 phosphorus, 5 x 10<-4> boron, 0.01 oxygen, and iron and unavoidable impurities the remainder. Preferably, the steel contains (in wt.%): 0.01-0.05 carbon, 0.1-1 silicon, 5-11 manganese, 15-17.5 chromium, 1-2 nickel, 2-4 copper, 1 x 10<-4>-10 x 10<-4> sulfur, 1 x 10<-4>-10 x 10<-4> calcium, 0-0.001 aluminum, 0.005-0.1 phosphorus, less than 0.01 oxygen, and iron and unavoidable impurities the remainder. The steel may also include 0.01-2% Mo.

IPC 1-7

**C22C 38/58**; **C22C 38/42**

IPC 8 full level

**C22C 38/00** (2006.01); **C22C 38/42** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR US)

**C22C 38/42** (2013.01 - EP KR US); **C22C 38/58** (2013.01 - EP US)

Cited by

DE102015005742A1; GB2359095A; CN100357478C; WO0224969A1; EP2163659A1; US8608873B2

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