

Title (en)

Low nickel containing chromium-nickel-manganese-copper austenitic stainless steel

Title (de)

Austenitischer rostfreier CrNiMnCu Stahl mit niedrigem Nickel-Gehalt

Title (fr)

Acier inoxydable austénitique CrNiMnCu à basse teneur en nickel

Publication

**EP 1431408 B1 20061122 (EN)**

Application

**EP 02028526 A 20021219**

Priority

EP 02028526 A 20021219

Abstract (en)

[origin: EP1431408A1] An austenitic stainless steel includes (a) 0.03wt% to 0.12wt% of C, (b) 0.2wt% to 1.0wt% of Si, (c) 7.5wt% to 10.5wt% of Mn, (d) 14.0wt% to 16.0wt% of Cr, (e) 1.0wt% to 5.0wt% of Ni, (f) 0.04wt% to 0.25wt% of N, (g) 1.0wt% to 3.5wt% of Cu, (h) trace amount of Mo, and the balance being Fe and incidental impurities. The austenitic stainless steel has a delta - ferrite content less than 8.5 and equal to  $6.77\text{Å(d)} + 1.5(b) - 4.85\text{Å(e)} + 30(a) + 30(f) + 0.5(c) + 0.3(g) - 52.75$ . <IMAGE>

IPC 8 full level

**C22C 38/58** (2006.01); **C22C 38/42** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP)

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Cited by

EP2566994A4; CN112593059A; EP2163659A1; US8608873B2; US8540933B2

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