

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 A1 20040623 (EN)

Application
EP 02028526 A 20021219

Priority
EP 02028526 A 20021219

Abstract (en)
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 $6.77\text{\AA}(d)+(h)+1.5(b)\text{\AA}-4.85\text{\AA}(e)+30(a)+30(f)+0.5(c)+0.3(g)\text{\AA}-52.75$. <IMAGE>

IPC 1-7
C22C 38/58; **C22C 38/42**; **C22C 38/54**

IPC 8 full level
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CPC (source: EP)
C22C 38/42 (2013.01); **C22C 38/54** (2013.01); **C22C 38/58** (2013.01)

Citation (search report)

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