

Title (en)
Martensitic stainless steel

Title (de)
Martensitischer rostfreier Stahl

Title (fr)
Acier inoxydable martensitique

Publication
EP 1602740 A1 20051207 (EN)

Application
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Abstract (en)
A martensitic stainless steel of this invention, aimed at achieving excellent corrosion resistance and cold workability and a desirable level of toughness, while keeping the hardness equivalent to that of conventional martensitic stainless steel, which consists essentially of, in % by mass, C: 0.15-0.50%, Si: 0.05% or more and less than 0.20%, Mn: 0.05-2.0%, P: 0.03% or less, S: 0.03% or less, Cu: 0.05-3.0%, Ni: 0.05-3.0%, Cr: 13.0-20.0%, Mo: 0.2-4.0%, V: 0.01-1.0%, Al: 0.030% or less, Ti: less than 0.020%, O: 0.020% or less, N: 0.30-0.80%, and the balance of Fe and inevitable impurities.

IPC 1-7
C22C 38/00; **C22C 38/42**; **C22C 38/44**; **C22C 38/46**; **C22C 38/48**; **C22C 38/50**; **C22C 38/52**; **C22C 38/54**; **C22C 38/60**

IPC 8 full level
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