

Title (en)  
MARTENSITIC STAINLESS STEEL

Title (de)  
MARTENSITISCHER NICHTROSTENDER STAHL

Title (fr)  
ACIER INOXYDABLE MARTENSITIQUE

Publication  
**EP 2060644 A4 20160217 (EN)**

Application  
**EP 07792794 A 20070821**

Priority

- JP 2007066194 W 20070821
- JP 2006225261 A 20060822

Abstract (en)  
[origin: EP2060644A1] The martensitic stainless steel according to the invention includes, in percent by mass, 0.010% to 0.030% C, 0.30% to 0.60% Mn, at most 0.040% P, at most 0.0100% S, 10.00% to 15.00% Cr, 2.50% to 8.00% Ni, 1.00% to 5.00% Mo, 0.050% to 0.250% Ti, at most 0.25% V, at most 0.07% N, and at least one of at most 0.50% Si and at most 0.10% Al, the balance consists of Fe and impurities, and the martensitic stainless steel satisfies Expression (1) and has a yield stress in the range from 758 MPa to 862 MPa. In this way, the martensitic stainless steel has a yield stress of 110 ksi grade (a yield stress in the range from 758 MPa to 862 MPa) and the value produced by subtracting the yield stress from the tensile stress is not less than 20.7 MPa. 6.0 # $\square$  Ti / C # $\square$  10.1

IPC 8 full level  
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Citation (search report)

- [X] JP 2003003243 A 20030108 - SUMITOMO METAL IND
- [X] JP H10130785 A 19980519 - SUMITOMO METAL IND
- [X] EP 1584699 A1 20051012 - SUMITOMO METAL IND [JP] & WO 2004057050 A1 20040708 - SUMITOMO METAL IND [JP], et al
- See references of WO 2008023702A1

Cited by  
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DE FR GB IT

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