

Title (en)  
Method for making an abrasion resistant steel

Title (de)  
Verfahren zum Herstellen abriebfester Stähle

Title (fr)  
Procédé de fabrication d'aciers résistant à l'abrasion

Publication  
**EP 0714990 A1 19960605 (EN)**

Application  
**EP 95120542 A 19910812**

Priority  

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- EP 91307393 A 19910812
- JP 14839990 A 19900606

Abstract (en)  
A method of making an abrasion resistant steel comprises the steps of: heating a slab having a chemical composition of about 0.05 to 0.45 wt.% C, 0.1 to 1.0 wt.% Si, 0.1 to 2.0 wt.% Mn, 0.05 to 1.5 wt.% Ti and the balance Fe to 1000 to 1300 DEG C, hot rolling a slab into a hot rolled product of which finishing temperature is in a range of from the Ar3 point to 1000 DEG C and directly quenching the hot rolled product, or air cooling and reheating above the Ac3 point followed by quenching the hot rolled product, or air cooling the hot rolled product, or directly quenching and tempering the hot rolled product at below the Ac1 point air cooling and reheating the hot rolled product at above the Ac3 point followed by quenching and tempering the hot rolled product at below the Ac1 point. <IMAGE>

IPC 1-7  
**C21D 1/02**; **C21D 8/02**; **C22C 38/14**

IPC 8 full level  
**C21D 8/02** (2006.01); **C22C 38/14** (2006.01); **C21D 1/02** (2006.01)

CPC (source: EP)  
**C21D 8/0226** (2013.01); **C21D 8/0263** (2013.01); **C22C 38/14** (2013.01); **C21D 1/02** (2013.01)

Citation (search report)  

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- [AD] PATENT ABSTRACTS OF JAPAN vol. 012, no. 446 (C - 546) 24 November 1988 (1988-11-24)
- [AD] PATENT ABSTRACTS OF JAPAN vol. 013, no. 399 (C - 632)<3747> 5 September 1989 (1989-09-05)
- [X] DATABASE WPI Section Ch Derwent World Patents Index; Class M24, AN 71-50199S
- [A] PATENT ABSTRACTS OF JAPAN vol. 006, no. 174 (C - 123)<1052> 8 September 1982 (1982-09-08)
- [A] PATENT ABSTRACTS OF JAPAN vol. 012, no. 312 (C - 523) 24 August 1988 (1988-08-24)
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