

Title (en)  
PROCESS FOR PRODUCING STEEL MATERIAL

Title (de)  
HERSTELLUNGSVERFAHREN FÜR STAHLMATERIAL

Title (fr)  
PROCÉDÉ DE FABRICATION D'UN ACIER

Publication  
**EP 2006398 A1 20081224 (EN)**

Application  
**EP 07741346 A 20070410**

Priority  
• JP 2007057910 W 20070410  
• JP 2006108174 A 20060411  
• JP 2006313747 A 20061121

Abstract (en)  
A process for producing a steel material which includes 30-minute or longer holding at the pearlite nose transformation completion point. In the process for steel material production, process annealing (3) is conducted between preceding-step hot working (1) and subsequent-step hot working. In the process annealing (3), a semi-product steel material (4) after completion of the preceding-step hot working is introduced into a heat-maintaining tank (7) to cause the steel material to recuperate heat and the semi-product steel material is kept for 30 minutes or longer at a temperature in the range of (pearlite nose transformation completion point)  $\pm 20^{\circ}\text{C}$  by means of the transformation latent heat thereof to thereby transform the semi-product steel material into pearlite. Preferably, the semi-product steel material introduced into the heat-maintaining tank is kept for 2 hours or longer at a temperature in the range of (pearlite nose transformation completion point)  $\pm 20^{\circ}\text{C}$ . The steel material can be regulated so as to have a hardness after the process annealing of 300 HB or lower.

IPC 8 full level  
**C21D 9/00** (2006.01); **C21D 1/26** (2006.01); **C21D 6/00** (2006.01); **C21D 8/02** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR)  
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Cited by  
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