

Title (en)
PROCESS FOR PRODUCING STEEL MATERIAL

Title (de)
HERSTELLUNGSVERFAHREN FÜR STAHLMATERIAL

Title (fr)
PROCÉDÉ DE FABRICATION D'UN ACIER

Publication
EP 2006398 B1 20141217 (EN)

Application
EP 07741346 A 20070410

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

Abstract (en)
[origin: EP2006398A1] 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 1/26 (2006.01); **C21D 6/00** (2006.01); **C21D 8/02** (2006.01); **C21D 9/00** (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
DE102015113058A1; US2012000336A1; US2016047020A1; US9758849B2

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