

Title (en)  
METHOD FOR PRODUCING EXTREMELY LOW CARBON STEEL SHEET AND EXTREMELY LOW CARBON CAST PIECE HAVING EXCELLENT SURFACE CHARACTERISTICS, WORKABILITY AND FORMABILITY

Title (de)  
BLECH AUS EXTREM KOHLENSTOFFARMEM STAHL UND GUSSSTÜCK AUS EXTREM KOHLENSTOFFARMEM STAHL MIT HERVORRAGENDEN OBERFLÄCHENEIGENSCHAFTEN, HERVORRAGENDER BEARBEITBARKEIT UND VERFORMBARKEIT

Title (fr)  
PROCÉDÉ DE FABRICATION D UNE FEUILLE EN ACIER À TENEUR EXTRÊMEMENT FAIBLE EN CARBONE ET OBJET MOULÉ À TENEUR EXTRÊMEMENT FAIBLE EN CARBONE PRÉSENTANT D EXCELLENTE PROPRIÉTÉS DE SURFACE, D APTITUDE AU FAÇONNAGE ET D'APTITUDE AU

Publication  
**EP 1852514 A4 20091111 (EN)**

Application  
**EP 06714341 A 20060216**

Priority  
• JP 2006303201 W 20060216  
• JP 2005041893 A 20050218  
• JP 2005300096 A 20051014

Abstract (en)  
[origin: EP1852514A1] A method of producing an extremely low carbon steel cast slab characterized by casting molten steel obtained by reducing the carbon concentration of the molten steel to 0.005 mass% or less, then adding Cu, Nb, and B to the molten steel, furthermore, and adjusting the concentration of dissolved oxygen in the molten steel to 0.01 mass% to 0.06 mass% and extremely low carbon steel plate comprised of steel containing C: 0.005 mass% or less, acid soluble Al: 0.005 mass% or less, and further Cu, Nb, and B, characterized in that the steel has fine oxides of a diameter of 0.5 µm to 30 µm dispersed in it in an amount of 1000 particles/cm<sup>2</sup> to 1,000,000 particles/cm<sup>2</sup>.

IPC 8 full level  
**C21C 7/06** (2006.01); **B22D 1/00** (2006.01); **B22D 11/00** (2006.01); **B22D 11/115** (2006.01); **C21C 7/04** (2006.01); **C21C 7/068** (2006.01); **C21C 7/10** (2006.01); **C22C 38/00** (2006.01); **C22C 38/06** (2006.01); **C22C 38/14** (2006.01)

CPC (source: EP KR US)  
**B22D 11/001** (2013.01 - EP KR US); **B22D 11/115** (2013.01 - EP KR US); **C21C 7/0006** (2013.01 - EP KR US); **C21C 7/06** (2013.01 - EP KR US); **C21C 7/068** (2013.01 - EP KR US); **C21C 7/10** (2013.01 - EP KR US); **C22C 38/001** (2013.01 - EP KR US); **C22C 38/004** (2013.01 - EP KR US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/08** (2013.01 - EP KR US); **C22C 38/12** (2013.01 - EP KR US); **C22C 38/14** (2013.01 - EP KR US); **C22C 38/16** (2013.01 - EP US)

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• [X] EP 1323837 A1 20030702 - USINOR [FR]  
• [X] EP 0924312 A1 19990623 - KAWASAKI STEEL CO [JP]  
• See references of WO 2006088223A1

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DE FR GB IT

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