

Title (en)  
GPA-GRADE BAINITE STEEL HAVING ULTRA-HIGH YIELD RATIO AND MANUFACTURING METHOD FOR GPA-GRADE BAINITE STEEL

Title (de)  
BAINITSTAHL MIT HOHEM VERHÄLTNIS VON POLYAINIT MIT HOHER AUSBEUTE UND HERSTELLUNGSVERFAHREN FÜR  
POLYAINITSTAHL MIT POLYAINITQUALITÄT

Title (fr)  
ACIER BAÏNITIQUE DE QUALITÉ GPA PRÉSENTANT UN RAPPORT DE RENDEMENT ULTRA ÉLEVÉ ET PROCÉDÉ DE FABRICATION  
D'ACIER BAÏNITIQUE DE QUALITÉ GPA

Publication  
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Application  
**EP 21860457 A 20210826**

Priority  
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• CN 2021114658 W 20210826

Abstract (en)  
GPa-grade bainite steel having an ultra-high yield ratio, containing, in addition to Fe, the following chemical elements in mass percentages: 0.12-0.24% of C; 0.2-0.5% of Si; 1.3-2.0% of Mn; 0.001-0.004% of B; 0.01-0.05% of Al; and at least one of Cr, Nb, Ti, and Mo, wherein Cr<0.4%, Nb≤0.06%, Ti<0.1%, and Mo≤0.4%. Also disclosed are a manufacturing method and annealing process for the steel.

IPC 8 full level  
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