

Title (en)  
HIGH-STRENGTH STEEL SHEET

Title (de)  
ULTRAHOCHFESTES STAHLBLECH

Title (fr)  
TÔLE D'ACIER À HAUTE RÉSISTANCE

Publication  
**EP 3492610 A4 20200311 (EN)**

Application  
**EP 16910563 A 20160729**

Priority  
JP 2016072316 W 20160729

Abstract (en)  
[origin: EP3492610A1] A high strength steel plate has a predetermined chemical composition, and in this high strength steel plate, DI is 2.0 to 7.8, Pcm is 0.189% or greater, a microstructure includes one or both of martensite and bainite such that a total area fraction thereof is 99% or greater, prior austenite grains have an aspect ratio of 2.0 or greater, a number fraction of cementite having a length of 1.0  $\mu\text{m}$  or greater in a long axis direction with respect to cementite having a length of 0.1  $\mu\text{m}$  or greater in the long axis direction is 5% or less, a plate thickness is 4.5 mm to 20 mm, a yield strength is 885 MPa or greater, a tensile strength is 950 MPa or greater, a total elongation is 12% or greater, and a Charpy absorbed energy at -20°C is 59 J/cm.

IPC 8 full level  
**C21D 1/02** (2006.01); **C21D 1/60** (2006.01); **C21D 8/02** (2006.01); **C21D 9/46** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/12** (2006.01); **C22C 38/14** (2006.01); **C22C 38/20** (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/26** (2006.01); **C22C 38/28** (2006.01); **C22C 38/32** (2006.01); **C22C 38/38** (2006.01); **C22C 38/40** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR)  
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Citation (search report)

- [A] EP 2881486 A1 20150610 - BAOSHAN IRON & STEEL [CN]
- [A] EP 2612945 A1 20130710 - NIPPON STEEL & SUMITOMO METAL CORP [JP]
- [A] JP 2011052321 A 20110317 - JFE STEEL CORP
- See references of WO 2018020660A1

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