

Title (en)
HIGH-STRENGTH STEEL PLATE AND MANUFACTURING METHOD THEREOF

Title (de)
HOCHFESTE STAHLPLATTE UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
PLAQUE D'ACIER À HAUTE RÉSISTANCE ET SON PROCÉDÉ DE FABRICATION

Publication
EP 3495522 A1 20190612 (EN)

Application
EP 17836780 A 20170721

Priority
• JP 2016153107 A 20160803
• JP 2017026557 W 20170721

Abstract (en)
Disclosed is a high-strength sheet including: C: 0.15% to 0.35% by mass, total of Si and Al: 0.5% to 3.0% by mass, Mn: 1.0% to 4.0% by mass, P: 0.05% by mass or less, and S: 0.01% by mass or less, with the balance being Fe and inevitable impurities, wherein the steel structure satisfies that: a ferrite fraction is 5% or less, the total fraction of tempered martensite and tempered bainite is 60% or more, the amount of retained austenite is 10% or more, MA has an average size of 1.0 μm or less, retained austenite has an average size of 1.0 μm or less, retained austenite having a size of 1.5 μm or more accounts for 2% or more of the total amount of retained austenite, and a scattering intensity at the q value of 1 nmin X-ray small angle scattering is 1.0 cmor less.

IPC 8 full level
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CPC (source: EP US)
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