

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

Title (de)
HOCHFESTES STAHLBLECH UND VERFAHREN ZUR SEINER HERSTELLUNG

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

Publication
EP 3495523 B1 20210630 (EN)

Application
EP 17836781 A 20170721

Priority
• JP 2016153110 A 20160803
• JP 2017026569 W 20170721

Abstract (en)
[origin: EP3495523A1] Disclosed is a high-strength sheet including: C: 0.15% by mass to 0.35% by mass, total of Si and Al: 0.5% by mass to 3.0% by mass, Mn: 1.0% by mass 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, a half-width of the concentration distribution of Mn in the carbon-concentrated region that is equal to the amount of retained austenite is 0.3% by mass or more, 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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Cited by
EP4180546A4; EP4206344A4; EP4180545A4; EP4206343A4

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