

Title (en)
HIGH-STRENGTH STEEL SHEET AND METHOD FOR PRODUCING SAME

Title (de)
HOCHFESTES STAHLBLECH UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
TÔLE D'ACIER À HAUTE RÉSISTANCE ET PROCÉDÉ DE PRODUCTION ASSOCIÉ

Publication
EP 2623631 A4 20161123 (EN)

Application
EP 10857890 A 20100930

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Abstract (en)
[origin: EP2623631A1] The invention provides a high strength steel sheet which exhibits excellent chemical convertibility and corrosion resistance after electrodeposition coating even in the case where the steel sheet has a high Si content, and a method for manufacturing such steel sheets. The method includes continuous annealing of a steel sheet which includes, in terms of mass%, C at 0.01 to 0.18%, Si at 0.4 to 2.0%, Mn at 1.0 to 3.0%, Al at 0.001 to 1.0%, P at 0.005 to 0.060% and S at # 0.01%, the balance being represented by Fe and inevitable impurities, while controlling the dew-point temperature of the atmosphere to become not less than -10°C when the heating furnace inside temperature is in the range of not less than A°C and not more than B°C during the course of heating (A: 600 # A # 780, B: 800 # B # 900).

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Citation (search report)
• [XA] EP 1936000 A1 20080625 - NIPPON STEEL CORP [JP]
• [E] EP 2412842 A1 20120201 - JFE STEEL CORP [JP]
• [A] JP 2009287094 A 20091210 - JFE STEEL CORP
• [A] EP 1980638 A1 20081015 - NIPPON STEEL ENGINEERING CORP [JP]
• See references of WO 2012042677A1

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EP3109330A4; EP3072982A4; US10597741B2

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