

Title (en)

HIGH STRENGTH STEEL SHEET HAVING EXCELLENT FORMABILITY AND METHOD FOR PRODUCTION THEREOF

Title (de)

HOCHFESTES STAHLBLECH MIT HERVORRAGENDER FORMBARKEIT UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

FEUILLARD EN ACIER A HAUTE RESISTANCE AYANT UNE EXCELLENTE FORMABILITE, ET SON PROCEDE DE PRODUCTION

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Application

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- JP 2001034336 A 20010209
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- JP 2001055640 A 20010228
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- JP 2001264175 A 20010831
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- JP 2001300504 A 20010928
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Abstract (en)

[origin: EP1365037A1] A high strength steel sheet having (2-1) a base phase structure, the base phase structure being tempered martensite or tempered bainite and accounting for 50% or more in terms of a space factor relative to the whole structure, or the base phase structure comprising tempered martensite or tempered bainite which accounts for 15% or more in terms of a space factor relative to the whole structure and further comprising ferrite, the tempered martensite or the tempered bainite having a hardness which satisfies the relation of Vickers hardness (Hv) $\geq 500\sqrt{C} + 30\sqrt{Si} + 3\sqrt{Mn} + 50$ where \sqrt{C} represents the content (mass %) of each element, and (2-2) a second phase structure comprising retained austenite which accounts for 3 to 30% in terms of a space factor relative to the whole structure and optionally further comprising bainite and/or martensite, the retained austenite having a C concentration (C gamma R) of 0.8% or more.

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