

Title (en)

STEEL SHEET WITH HIGH TENSILE STRENGTH AND SUPERIOR DUCTILITY AND METHOD FOR PRODUCING SAME

Title (de)

STAHLBLECH VON HOHER ZUGFESTIGKEIT UND HERVORRAGENDER DEHNBARKEIT SOWIE VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

TÔLE D'ACIER PRÉSENTANT UNE RÉSISTANCE À LA TRACTION ÉLEVÉE ET UNE MEILLEURE DUCTILITÉ ET PROCÉDÉ DE FABRICATION DE CETTE DERNIÈRE

Publication

EP 2554699 B1 20160810 (EN)

Application

EP 11762477 A 20110225

Priority

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- JP 2011055007 W 20110225

Abstract (en)

[origin: EP2554699A1] The invention provides a high strength steel sheet having excellent ductility which can avoid sudden breakage when being press-formed and has TS of 700 to 900 MPa, and a method for manufacturing such steel sheets. The high strength steel sheet having excellent ductility has a chemical composition represented by, in terms of % by mass, C: 0.5 to 1.5%, Si: not more than 0.1%, Mn: 10 to 25%, P: not more than 0.1%, S: not more than 0.05%, Al: not more than 0.1%, Ni: 3.0 to 8.0%, Mo: not more than 0.1%, N: not more than 0.01%, and Fe and inevitable impurities: balance, and has a microstructure formed of recrystallized austenite grains with an average grain diameter of 5 to 30 μm or further has another microstructure at an area ratio of not more than 1%.

IPC 8 full level

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Cited by

EP3395989A4; US11959157B2; US11655517B2; US11505853B2; US11420419B2; WO2017213781A1

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