

Title (en)
HIGH-STRENGTH STEEL SHEET AND PRODUCTION METHOD FOR SAME, AND PRODUCTION METHOD FOR HIGH-STRENGTH GALVANIZED STEEL SHEET

Title (de)
HOCHFESTES STAHLBLECH UND HERSTELLUNGSVERFAHREN DAFÜR UND HERSTELLUNGSVERFAHREN FÜR HOCHFESTES VERZINKTES STAHLBLECH

Title (fr)
TÔLE D'ACIER À HAUTE RÉSISTANCE AINSI QUE PROCÉDÉ DE FABRICATION DE CELLE-CI, ET PROCÉDÉ DE FABRICATION DE TÔLE D'ACIER GALVANISÉ À HAUTE RÉSISTANCE

Publication
EP 3178953 A1 20170614 (EN)

Application
EP 15829161 A 20150805

Priority
• JP 2014161672 A 20140807
• JP 2015003943 W 20150805

Abstract (en)
Disclosed is a high-strength steel sheet having a tensile strength (TS) of 780 MPa or more and excellent in ductility, stretch flangeability, surface characteristics, and stability as a material that can be obtained by providing a predetermined chemical composition and a steel microstructure that contains, by area, 25-80 % of ferrite and bainitic ferrite in total, and 3-20 % of martensite, and that contains, by volume, 10 % or more of retained austenite, in which the retained austenite has a mean grain size of 2 μm or less, a mean Mn content in the retained austenite in mass% is at least 1.2 times the Mn content in the steel sheet in mass%, an area ratio of retained austenite having a mean C content in mass% at least 2.1 times the C content in the steel sheet in mass% is 60 % or more of an area ratio of the entire retained austenite.

IPC 8 full level
C22C 38/00 (2006.01); **C21D 9/46** (2006.01); **C22C 18/04** (2006.01); **C22C 38/04** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP US)
C21D 6/005 (2013.01 - EP US); **C21D 6/008** (2013.01 - EP US); **C21D 8/0205** (2013.01 - EP US); **C21D 8/0226** (2013.01 - EP US); **C21D 8/0236** (2013.01 - EP US); **C21D 8/0263** (2013.01 - EP US); **C21D 8/0273** (2013.01 - EP US); **C21D 8/0278** (2013.01 - EP US); **C21D 9/46** (2013.01 - EP US); **C22C 38/00** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/005** (2013.01 - EP US); **C22C 38/008** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/12** (2013.01 - EP US); **C22C 38/14** (2013.01 - EP US); **C22C 38/16** (2013.01 - EP US); **C22C 38/38** (2013.01 - EP US); **C22C 38/60** (2013.01 - EP US); **C23C 2/02** (2013.01 - EP US); **C23C 2/0224** (2022.08 - EP US); **C23C 2/024** (2022.08 - EP US); **C23C 2/06** (2013.01 - EP US); **C23F 17/00** (2013.01 - US); **C21D 2211/001** (2013.01 - EP US); **C21D 2211/002** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP US); **C21D 2211/008** (2013.01 - EP US); **C22C 18/04** (2013.01 - EP US)

Cited by
EP3733897A4; EP3733898A4

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Designated extension state (EPC)
BA ME

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