

Title (en)
HIGH-STRENGTH HOT-DIP GALVANIZED STEEL SHEET WITH EXCELLENT MATERIAL STABILITY AND PROCESSABILITY AND PROCESS FOR PRODUCING SAME

Title (de)
HOCHFESTES FEUERVERZINKTES STAHLBLECH MIT HERVORRAGENDER MATERIALSTABILITÄT UND VERARBEITBARKEIT SOWIE VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)
TÔLE EN ACIER GALVANISÉ AU TREMPÉ À HAUTE RÉSISTANCE PRÉSENTANT UNE EXCELLENTE STABILITÉ MATÉRIELLE ET UNE EXCELLENTE APTITUDE AU TRAITEMENT ET PROCÉDÉ DE PRODUCTION DE CELLE-CI

Publication
EP 2527482 A4 20170405 (EN)

Application
EP 11734786 A 20110118

Priority
• JP 2010262087 A 20101125
• JP 2010011948 A 20100122
• JP 2011051151 W 20110118

Abstract (en)
[origin: EP2527482A1] A high strength galvanized steel sheet having excellent formability and stability of mechanical properties, the steel sheet having a component composition containing C: 0.04% or more, and 0.13% or less, Si: 0.7% or more, and 2.3% or less, Mn: 0.8% or more, and 2.0% or less, P: 0.1% or less, S: 0.01% or less, Al: 0.1% or less, N: 0.008% or less, and the remainder composed of Fe and incidental impurities on a percent by mass basis, wherein a steel microstructure includes 75% or more of ferrite phase, 1.0% or more of bainitic ferrite phase, and 1.0% or more, and 10.0% or less of pearlite phase on an area ratio basis, the area ratio of martensitic phase is 1.0% or more, and less than 5%, and the area ratio of martensitic phase/(area ratio of bainitic ferrite phase + area ratio of pearlite phase) \geq 0.6 is satisfied.

IPC 8 full level
C22C 38/00 (2006.01); **C21D 8/02** (2006.01); **C21D 8/04** (2006.01); **C21D 9/46** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/12** (2006.01); **C22C 38/18** (2006.01); **C22C 38/58** (2006.01); **C23C 2/02** (2006.01); **C23C 2/06** (2006.01); **C23C 2/28** (2006.01)

CPC (source: EP US)
C21D 8/0205 (2013.01 - EP); **C21D 8/0405** (2013.01 - EP); **C21D 9/46** (2013.01 - EP); **C22C 38/001** (2013.01 - EP); **C22C 38/02** (2013.01 - EP); **C22C 38/04** (2013.01 - EP); **C22C 38/06** (2013.01 - EP); **C22C 38/12** (2013.01 - EP); **C22C 38/18** (2013.01 - EP); **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); **C23C 2/28** (2013.01 - EP US); **C21D 2211/002** (2013.01 - EP); **C21D 2211/005** (2013.01 - EP); **C21D 2211/008** (2013.01 - EP); **C21D 2211/009** (2013.01 - EP)

Citation (search report)
• [E] EP 2402470 A1 20120104 - JFE STEEL CORP [JP]
• [E] EP 2527483 A1 20121128 - JFE STEEL CORP [JP]
• [E] EP 2527484 A1 20121128 - JFE STEEL CORP [JP]
• [XYI] CA 2714117 A1 20090813 - JFE STEEL CORP [JP]
• [IY] JP 2004002909 A 20040108 - JFE STEEL KK
• [Y] JP 2001049342 A 20010220 - KAWASAKI STEEL CO
• See references of WO 2011090180A1

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CN104350170A; EP2527484A4; US10570470B2

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