

Title (en)
GALVANIZED STEEL SHEET AND MEMBER, AND METHOD FOR MANUFACTURING SAME

Title (de)
GALVANISIERTES STAHLBLECH UND ELEMENT SOWIE VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)
TÔLE D'ACIER GALVANISÉ ET ÉLÉMENT ET PROCÉDÉ DE FABRICATION ASSOCIÉ

Publication
EP 4306672 A1 20240117 (EN)

Application
EP 22775503 A 20220318

Priority
• JP 2021049167 A 20210323
• JP 2022012855 W 20220318

Abstract (en)
Provided is a galvanized steel sheet having a TS of 980 MPa or more, high YS, excellent ductility, strain hardenability, and hole expansion formability. A base steel sheet has a defined chemical composition and a steel microstructure as follows: area ratio of ferrite: 65.0 % or less (including 0 %), area ratio of bainitic ferrite: 5.0 % or more and 40.0 % or less, area ratio of tempered martensite: 0.5 % or more and 80.0 % or less, area ratio of retained austenite: 3.0 % or more, area ratio of fresh martensite: 20.0 % or less (including 0 %), $S_{BF} + S_{TM} + 2 \times S_{MA}$: 65.0 % or more, S_{MA1}/S_{MA} : 0.80 or less, and S_{MA2}/S_{MA} : 0.20 or more.

IPC 8 full level
C22C 38/00 (2006.01); **C21D 9/46** (2006.01); **C22C 18/00** (2006.01); **C22C 38/06** (2006.01); **C22C 38/60** (2006.01); **C23C 2/06** (2006.01); **C23C 2/28** (2006.01)

CPC (source: EP KR US)
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Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

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