

Title (en)
STEEL SHEET, MEMBER, AND MANUFACTURING METHODS THEREFOR

Title (de)
STAHLBLECH, ELEMENT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
TÔLE D'ACIER, ÉLÉMENT ET PROCÉDÉS DE FABRICATION ASSOCIÉS

Publication
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Application
EP 22875781 A 20220909

Priority
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• JP 2022033946 W 20220909

Abstract (en)
Provided are a steel sheet having high strength, high ductility, excellent stretch flange formability, and good chemical convertibility; a related member; and methods for manufacturing them. The steel sheet has a chemical composition including specific amounts of C, Si, Mn, P, S, sol. Al, and N in mass%. The steel sheet has a specific ratio of the total of polygonal ferrite, upper bainite, retained γ , fresh martensite, tempered martensite, and lower bainite, and a specific ratio of a remaining microstructure. The steel sheet has a specific ratio of the number of fresh martensite grains and retained γ grains having an equivalent circular diameter of less than 0.8 μm , and has a specific ratio of the number of fresh martensite grains and retained γ grains having an aspect ratio of 2.0 or more and an equivalent circular diameter of 0.8 μm or more.

IPC 8 full level
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