

Title (en)
THICK STEEL SHEET AND WELDED JOINT

Title (de)
DICKES STAHLBLECH UND SCHWEISSVERBINDUNG

Title (fr)
TÔLE D'ACIER ÉPAISSE ET JOINT SOUDÉ

Publication
EP 3299486 A1 20180328 (EN)

Application
EP 16799856 A 20160516

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Abstract (en)
The purpose of the present invention is to provide a thick steel sheet having excellent sour resistance. The present invention is a thick steel sheet which contains, in mass%, 0.01-0.12% of C, 0.02-0.50% of Si, 0.6-2.0% of Mn, more than 0% but 0.030% or less of P, more than 0% but 0.004% or less of S, 0.010-0.080% of Al, 0.10-1.50% of Cr, 0.002-0.050% of Nb, 0.0002-0.05% of REM, 0.0003-0.01% of Zr, 0.0003-0.006% of Ca, more than 0% but 0.010% or less of N, and more than 0% but 0.0040% or less of O, with the balance made up of iron and unavoidable impurities. With respect to the composition of the inclusions contained in the steel and having widths of 1 μ m or more, the Zr amount in the inclusions is within 1-40%, the REM amount in the inclusions is within 5-50%, the Al amount in the inclusions is within 3-30% and the Ca amount in the inclusions is within 5-60%.

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Cited by
CN115679199A; WO2023087883A1

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