

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  $\mu$ 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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