

Title (en)
STEEL FOR WELDED STRUCTURE PURPOSE EXHIBITING NO DEPENDENCE OF HAZ TOUGHNESS ON HEAT INPUT AND METHOD FOR PRODUCING THE SAME

Title (de)
STAHL FÜR GESCHWEISSTE STRUKTUREN, WOBEI DIE ZÄHIGKEIT UNABHÄNGIG VOM EINBRINGEN VON WÄRMEIST, UND HERSTELLUNGSVERFAHREN

Title (fr)
ACIER POUR STRUCTURE SOUDEE DONT LA TENACITE DE ZONE THERMIQUEMENT AFFECTEE NE DEPEND PAS D'UN APPORT DE CHALEUR, ET PROCEDE DE PRODUCTION ASSOCIE

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Application
EP 00966448 A 20001012

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Abstract (en)
The present invention relates to a steel for a welded structure with excellent HAZ toughness, containing, in terms of wt%, C: 0.01 to 0.2%, Si: 0.02 to 0.5%, Mn: 0.3 to 2%, P: 0.03% or less, S: 0.0001 to 0.03%, Al: 0.0005 to 0.05%, Ti: 0.003 to 0.05%, Mg: 0.0001 to 0.01% and O: 0.0001 to 0.008%, with the balance consisting of Fe and unavoidable impurities; and having particles dispersed in the steel at an average particle interval of 30 to 100 μ m, the particles being formed by precipitating either any one of sulfides and nitrides singly or the both thereof in combination using Mg contained oxides with the particle sizes of 0.2 to 5 μ m as their nuclei, or particles dispersed in the steel at an average particle interval of 30 μ m or less, the particles being formed by precipitating either any one of sulfides and nitrides singly or the both thereof in combination using Mg contained oxides with the particle sizes of 0.005 to less than 0.2 μ m as their nuclei. <IMAGE>

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IPC 8 full level
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Cited by
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