

Title (en)

HIGH MANGANESE AUSTENITIC STEEL HAVING HIGH YIELD STRENGTH AND MANUFACTURING METHOD FOR SAME

Title (de)

MANGANREICHER AUSTENITISCHER STAHL MIT HOHER STRECKGRENZE UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

ACIER AUSTÉNITIQUE À HAUTE TENEUR EN MANGANÈSE AYANT UNE HAUTE LIMITE D'ÉLASTICITÉ ET SON PROCÉDÉ DE FABRICATION

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Application

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Abstract (en)

A high manganese austenitic steel having high yield strength according to one aspect of the present invention, comprises: by wt%, 0.2% to 0.5% of C, 20% to 28% of Mn, 0.05% to 0.5% of Si, 0.03% or less of P, 0.005% or less of S, 0.005% to 0.05% of Al, and the remainder being Fe and other unavoidable impurities; and 95 area% or more of austenite as a microstructure, wherein the grain boundary fraction in crystal grains of the microstructure may be 7 area% or more.

IPC 8 full level

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