

Title (en)

STEEL WITH EXCELLENT WEATHER RESISTANCE AT THE SEASIDE ATMOSPHERE, AND MANUFACTURING METHOD THEREFOR

Title (de)

STAHL MIT HERVORRAGENDER WETTERBESTÄNDIGKEIT IN MEERESNÄHE SOWIE HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

ACIER A EXCELLENTE RESISTANCE AUX INTEMPERIES DANS UNE ATMOSPHERE MARINE, ET SON PROCEDE DE FABRICATION

Publication

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Application

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- KR 20040098152 A 20041126
- KR 20040109217 A 20041221
- KR 20040109218 A 20041221
- KR 20040109220 A 20041221
- KR 20040109221 A 20041221
- KR 20040109647 A 20041221

Abstract (en)

[origin: WO2006080658A1] The invention relates to steel with excellent weather resistance, and a manufacturing method therefor. According to the invention, the steel consists of up to 0.15wt% C, up to 1.0wt% Si, up to 2.0wt% Mn, 0.2 to 1.0wt% Cu, 0.2 to 5.0wt% Ni, 0.001 to 0.1 wt% Al, up to 0.03wt% P, 0.002 to 0.03wt%S, 0.001 to 0.01wt% Ca. The balance contains Fe and unavoidable impurities, and Ca, S, Al, Si contents are determined by an Equation 1 $\text{Ca}(\%)/\text{S}(\%) > 1.5\text{Al}(\%)+2\text{Si}(\%)$. Also, the steel has at least 30wt% water-soluble CaS inclusion out of Ca-based non-metallic inclusions. The invention provides steel with excellent weather resistance in an atmosphere having a high concentration of salinity.

IPC 8 full level

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- [X] KR 20030055534 A 20030704 - POSCO [KR]
- [A] JP 2000355730 A 20001226 - KAWASAKI STEEL CO
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- See references of WO 2006080658A1

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