

Title (en)
WEAR-RESISTANT STEEL PLATE HAVING EXCELLENT LOW-TEMPERATURE TOUGHNESS AND CORROSION WEAR RESISTANCE

Title (de)
VERSCHLEISSFESTE STAHLPLATTE MIT HERVORRAGENDER KÄLTEZÄHIGKEIT UND KORROSIONSVerschleissfestigkeit

Title (fr)
TÔLE D'ACIER RÉSISTANT À L'USURE QUI PRÉSENTE UNE EXCELLENTE TÉNACITÉ À BASSE TEMPÉRATURE ET UNE EXCELLENTE
RÉSISTANCE À L'USURE DUE À LA CORROSION

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Application
EP 13839513 A 20130913

Priority
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Abstract (en)
[origin: EP2873748A1] Provided is an abrasion resistant steel plate which possesses excellent abrasion resistance, excellent low-temperature toughness and excellent corrosive wear resistance. An abrasion resistant steel plate includes the composition containing by mass%: 0.23% to 0.35% C, 0.05% to 1.00% Si, 0.1% to 2.0% Mn, 0.020% or less P, 0.005% or less S, 0.005% to 0.100% Al, 0.03% to 2.0% Cr, and 0.03% to 1.0% Mo in a state where DI* defined by the following formula (1) is satisfied 45 or more, and further containing remaining Fe and unavoidable impurities as a balance. The steel plate has a structure where an as-quenched martensitic phase forms a main phase and a grain size of prior austenite grains is 30 µm or less, and surface hardness of the steel plate is 450 or more at Brinell hardness HBW10/3000.

IPC 8 full level
C21D 8/02 (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/20** (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/26** (2006.01); **C22C 38/28** (2006.01); **C22C 38/32** (2006.01); **C22C 38/38** (2006.01); **C22C 38/40** (2006.01); **C22C 38/60** (2006.01)

CPC (source: CN EP KR US)
C21D 1/18 (2013.01 - EP US); **C21D 6/002** (2013.01 - EP US); **C21D 6/004** (2013.01 - EP US); **C21D 6/005** (2013.01 - EP US); **C21D 6/008** (2013.01 - EP US); **C21D 8/0263** (2013.01 - CN EP US); **C21D 9/46** (2013.01 - EP US); **C22C 38/001** (2013.01 - CN EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/005** (2013.01 - CN EP US); **C22C 38/008** (2013.01 - CN EP US); **C22C 38/02** (2013.01 - CN EP US); **C22C 38/04** (2013.01 - CN EP US); **C22C 38/06** (2013.01 - CN EP KR US); **C22C 38/20** (2013.01 - CN EP US); **C22C 38/22** (2013.01 - CN EP KR US); **C22C 38/24** (2013.01 - CN EP US); **C22C 38/26** (2013.01 - CN EP US); **C22C 38/28** (2013.01 - CN EP US); **C22C 38/32** (2013.01 - CN EP US); **C22C 38/38** (2013.01 - EP KR US); **C22C 38/40** (2013.01 - CN EP US); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **C22C 38/50** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP US); **C22C 38/60** (2013.01 - CN EP KR US); **C21D 8/02** (2013.01 - CN EP US); **C21D 8/0226** (2013.01 - CN EP US); **C21D 2211/001** (2013.01 - CN EP US); **C21D 2211/008** (2013.01 - CN EP US)

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