

Title (en)
CORROSION-RESISTANT STEEL MATERIAL FOR SHIP AND VESSEL

Title (de)
KORROSIONSBESTÄNDIGES STAHLMATERIAL FÜR SCHIFF UND BEHÄLTER

Title (fr)
MATERIAU EN ACIER RESISTANT A LA CORROSION POUR UN BATEAU ET UN BATIMENT

Publication
EP 1990437 A4 20150311 (EN)

Application
EP 07707040 A 20070112

Priority
• JP 2007050736 W 20070112
• JP 2006050451 A 20060227

Abstract (en)
[origin: EP1990437A1] Anti-corrosion steel for ship is provided at low cost, which exhibits excellent corrosion resistance without depending on a surface condition of steel even under severe corrosion environment such as a ballast tank of a ship. Anti-corrosion steel for ship contains, in mass percent, C of 0.03 to 0.25%, Si of 0.05 to 0.50%, Mn of 0.1 to 2.0%, P of 0.025% or less, S of 0.01% or less, Al of 0.005 to 0.10%, W of 0.01 to 1.0%, Cr of 0.01% or more and less than 0.20%, and furthermore contains as needed one or two selected from Sb of 0.001 to 0.3% and Sn of 0.001 to 0.3% and/or one or at least two selected from Ni of 0.005 to 0.25%, Mo of 0.01 to 0.5%, and Co of 0.01 to 1.0%, and contains the remainder including Fe and inevitable impurities.

IPC 8 full level
C22C 38/00 (2006.01); **B63B 3/00** (2006.01); **C21D 7/06** (2006.01); **C21D 8/02** (2006.01); **C21D 8/06** (2006.01); **C21D 9/46** (2006.01); **C21D 9/50** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/12** (2006.01); **C22C 38/14** (2006.01); **C22C 38/16** (2006.01); **C22C 38/22** (2006.01); **C22C 38/38** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP KR)
B63B 3/00 (2013.01 - EP KR); **C21D 7/06** (2013.01 - EP KR); **C21D 8/0205** (2013.01 - EP KR); **C21D 8/0226** (2013.01 - KR); **C21D 8/06** (2013.01 - EP KR); **C21D 9/46** (2013.01 - EP KR); **C22C 38/001** (2013.01 - KR); **C22C 38/002** (2013.01 - KR); **C22C 38/005** (2013.01 - KR); **C22C 38/008** (2013.01 - EP KR); **C22C 38/02** (2013.01 - EP KR); **C22C 38/04** (2013.01 - EP KR); **C22C 38/22** (2013.01 - EP KR); **C22C 38/38** (2013.01 - EP KR); **C22C 38/60** (2013.01 - EP KR); **C21D 8/0226** (2013.01 - EP)

Citation (search report)
• [A] EP 1516938 A1 20050323 - NIPPON STEEL CORP [JP]
• [A] JP 2003082435 A 20030319 - SUMITOMO METAL IND
• [A] US 4407681 A 19831004 - INA KATUTOSHI [JP], et al
• See references of WO 2007097142A1

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DE DK FR

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EP 1990437 A1 20081112; **EP 1990437 A4 20150311**; **EP 1990437 B1 20160831**; CN 101389782 A 20090318; CN 101389782 B 20110525; DK 1990437 T3 20160919; KR 101115275 B1 20120314; KR 20080090541 A 20081008; KR 20110084462 A 20110722; WO 2007097142 A1 20070830

DOCDB simple family (application)
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