

Title (en)
Ni-CONTAINING STEEL PLATE

Title (de)
NI-HALTIGE STAHLPLATTE

Title (fr)
TÔLE D'ACIER ÉPAISSE CONTENANT DU NICKEL

Publication
EP 2876179 B1 20171011 (EN)

Application
EP 13823858 A 20130718

Priority
• JP 2012162335 A 20120723
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Abstract (en)
[origin: EP2876179A1] An object of the present invention is to provide an Ni-containing steel plate which is low in cost and has excellent low-temperature toughness. In view of the object, the Ni-containing steel plate of the present invention has a chemical composition containing by mass % C: 0.01 % to 0.15 %, Si: 0.02 % to 0.20 %, Mn: 0.45 % to 2.00 %, P: 0.020 % or less, S: 0.005 % or less, Al: 0.005 % to 0.100 %, Ni: 5.0 % to 8.0 %, and the balance being Fe and incidental impurities, and has a microstructure containing less than 1.7 % by volume fraction of retained austenite when cooled to liquid nitrogen temperature, and having an average grain size of crystal grains surrounded by high-angle grain boundaries with an orientation difference of 15° or more of 5 μm or less by equivalent circle diameter.

IPC 8 full level
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