

Title (en)

Low-temperature service nickel steel plate with excellent weld toughness

Title (de)

Grobbleche aus Nickelstahl für Verwendung bei niedriger Temperatur versehen mit Schweissnähten von sehr hoher Zähigkeit

Title (fr)

Tôles en acier au nickel, destinées aux utilisations à basse température et présentant une excellente tenacité des cordons de soudure

Publication

**EP 0524335 B1 19960612 (EN)**

Application

**EP 91112442 A 19910724**

Priority

JP 1373890 A 19900125

Abstract (en)

[origin: EP0524335A1] There is provided a low-temperature service nickel steel plate with excellent weld toughness. This steel plate consists essentially of not less than 0.03% of C, 0.02 to 0.22% of Si, 0.05 to 0.47% of Mn, not more than 0.005% of P, not more than 0.005% of S, 7.5 to 12.0% of Ni, 0.01 to 0.10% of Al, and the remaining of Fe, where the following relations stand  $3.0\% \leq (8\text{Si}+9\text{Mn}) \leq 5.5\%$  and  $123\text{C}+(8\text{Si}+9\text{Mn}) \leq 12.0\%$ . <IMAGE>

IPC 1-7

**C22C 38/08**; **B23K 35/30**

IPC 8 full level

**C22C 38/00** (2006.01); **C21D 6/00** (2006.01); **C22C 38/08** (2006.01)

CPC (source: EP)

**C21D 6/001** (2013.01); **C22C 38/08** (2013.01)

Citation (examination)

- JP S63290246 A 19881128 - KAWASAKI STEEL CO
- pages 681 - 688; WITZKE ET AL.: 'Development of strong and tough cryogenic Fe- 12Ni alloys containing reactive metal additions'

Designated contracting state (EPC)

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