

Title (en)

Temper rolling method for steel plate and temper rolling mill

Title (de)

Kaltnachwalzverfahren für Stahlblech und Kaltnachwalzwerk

Title (fr)

Procédé d'écrouissage à froid pour tôles d'acier et laminoir d'écrouissage

Publication

**EP 1013351 B1 20040519 (EN)**

Application

**EP 99310136 A 19991216**

Priority

JP 37029898 A 19981225

Abstract (en)

[origin: EP1013351A2] The present invention provides a temper rolling method for temper rolling a steel plate for improving the brightness of the steel plate without requiring additional facilities and production steps. The method uses a steel plate containing 0.012 wt% or less of C and a temper rolling mill wherein at least the roll at the top front stand is a scratch bright roll having a surface roughness (Ra) of 1.2  $\mu\text{m}$  or less and at least the roll at the last stand is a bright roll having a surface roughness (Ra) of 0.5  $\mu\text{m}$  or less. <IMAGE>

IPC 1-7

**B21B 1/22**; **C21D 8/02**

IPC 8 full level

**B21B 39/00** (2006.01); **B21B 1/22** (2006.01); **B21B 27/00** (2006.01); **C22C 38/00** (2006.01)

CPC (source: EP KR)

**B21B 1/227** (2013.01 - EP); **B21B 39/00** (2013.01 - KR)

Cited by

EP4094854A4

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

**EP 1013351 A2 20000628**; **EP 1013351 A3 20021127**; **EP 1013351 B1 20040519**; DE 69917416 D1 20040624; DE 69917416 T2 20050519; JP 2000197902 A 20000718; JP 3783439 B2 20060607; KR 100613948 B1 20060818; KR 20000048403 A 20000725; TR 199903256 A2 20000721; TW 458820 B 20011011

DOCDB simple family (application)

**EP 99310136 A 19991216**; DE 69917416 T 19991216; JP 37029898 A 19981225; KR 19990061943 A 19991224; TR 9903256 A 19991224; TW 88122310 A 19991217