

Title (en)  
HOT ROLLING METHOD AND HOT ROLLING LINE

Title (de)  
WARMWALZVERFAHREN UND WARMWALZSTRASSE

Title (fr)  
PROCEDE DE LAMINAGE A CHAUD ET TRAIN DE LAMINOIRS A CHAUD

Publication  
**EP 1346780 A1 20030924 (EN)**

Application  
**EP 01272853 A 20011226**

Priority  

- JP 0111401 W 20011226
- JP 2000402012 A 20001228
- JP 2001116897 A 20010416
- JP 2001302509 A 20010928
- JP 2001355265 A 20011120

Abstract (en)  
A hot rolling line and a hot rolling method capable of finer refining crystal grains are provided. Specifically, the hot rolling line for a metal sheet is composed of a finish rolling mill, a leveler, and a cooling apparatus installed from upstream to downstream in this sequence in a metal sheet transporting direction. The hot rolling method is such that, in the above hot rolling line, a metal sheet obtained by finish rolling a metal piece is subjected to repeated bending processing by the leveler and then cooled. <IMAGE>

IPC 1-7  
**B21B 1/26**; **B21B 37/76**; **B21D 1/02**; **C21D 8/02**

IPC 8 full level  
**B21B 1/26** (2006.01); **B21B 37/76** (2006.01); **B21D 1/02** (2006.01); **C21D 8/02** (2006.01); **B21B 15/00** (2006.01); **B21B 45/02** (2006.01)

CPC (source: EP KR US)  
**B21B 1/26** (2013.01 - EP KR US); **B21B 37/76** (2013.01 - EP US); **B21D 1/02** (2013.01 - EP US); **C21D 8/0242** (2013.01 - EP US); **B21B 15/0085** (2013.01 - EP US); **B21B 45/0218** (2013.01 - EP US); **B21B 2015/0021** (2013.01 - EP US); **B21B 2015/0057** (2013.01 - EP US); **B21B 2015/0071** (2013.01 - EP US); **C21D 8/0226** (2013.01 - EP US)

Cited by  
DE102017212529A1

Designated contracting state (EPC)  
DE FR IT

DOCDB simple family (publication)  
**US 2003084972 A1 20030508**; CN 1426330 A 20030625; EP 1346780 A1 20030924; EP 1346780 A4 20050316; KR 20020079921 A 20021019; WO 02053301 A1 20020711

DOCDB simple family (application)  
**US 20417102 A 20020819**; CN 01808728 A 20011226; EP 01272853 A 20011226; JP 0111401 W 20011226; KR 20027011298 A 20020828