

Title (en)

ROLLING MILL FOR HOT-ROLLING METAL, IN PARTICULAR, ALUMINIUM IN ADDITION TO HOT-ROLLING METHOD

Title (de)

WALZWERK ZUM WARMWALZEN VON METALL, INSBESONDERE VON ALUMINIUM SOWIE WARMWALZVERFAHREN

Title (fr)

LAMINOIR DESTINE AU LAMINAGE DE METAL, NOTAMMENT D'ALUMINIUM, ET PROCEDE DE LAMINAGE

Publication

EP 1675693 A1 20060705 (DE)

Application

EP 04765624 A 20040925

Priority

- EP 2004010794 W 20040925
- DE 10349950 A 20031024

Abstract (en)

[origin: US2007051153A1] The invention relates to a rolling mill (1) which is used to hot roll metal, in particular aluminium. Said rolling mill comprises a hot strip mill (3) provided with a pre-rolling train (4) and a finishing rolling train (5). The aim of the invention is to improve said rolling mill such that it is more compact and/or such that the systems, which are already compact, are more productive. The pre-rolling train (4) is embodied as a tandem train, wherein the rolling product is milled in a tandem mode for jointly involving at least two pre-rolling frames (8, 9) arranged one behind the other. Alternatively or simultaneously, the pre-rolling train (4) and the finishing train (5) work together as a tandem train. Milling occurs place in the tandem mode when the frame of the pre-rolling train and the finishing train are used together. In the finishing train, milling can take place, preferably, in a reversing tandem mode.

IPC 1-7

B21B 1/26; **B21B 1/30**

IPC 8 full level

B21B 1/26 (2006.01); **B21B 1/34** (2006.01); **B21B 3/00** (2006.01); **B21B 13/02** (2006.01); **B21B 15/00** (2006.01)

CPC (source: EP KR US)

B21B 1/26 (2013.01 - EP KR US); **B21B 1/34** (2013.01 - EP US); **B21B 3/02** (2013.01 - KR); **B21B 31/00** (2013.01 - KR); **B21B 37/00** (2013.01 - KR); **B21B 39/12** (2013.01 - KR); **B21B 13/02** (2013.01 - EP US); **B21B 2003/001** (2013.01 - EP US); **B21B 2013/025** (2013.01 - EP US); **B21B 2015/0014** (2013.01 - EP US); **B21B 2015/0021** (2013.01 - EP US)

Citation (search report)

See references of WO 2005049241A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2007051153 A1 20070308; **US 8356503 B2 20130122**; AR 046555 A1 20051214; AT E426468 T1 20090415; AU 2004291230 A1 20050602; AU 2004291230 B2 20100304; BR PI0415543 A 20061226; BR PI0415543 B1 20151110; CA 2541406 A1 20050602; CN 1871076 A 20061129; CN 1871076 B 20110323; DE 10349950 A1 20050525; DE 502004009234 D1 20090507; EG 24287 A 20090105; EP 1675693 A1 20060705; EP 1675693 B1 20090325; ES 2324868 T3 20090818; JP 2007508941 A 20070412; KR 20060089738 A 20060809; MX PA06004519 A 20060706; PL 1675693 T3 20090831; RU 2006117792 A 20071210; RU 2357813 C2 20090610; TW 200523044 A 20050716; UA 90097 C2 20100412; WO 2005049241 A1 20050602; ZA 200602501 B 20070530

DOCDB simple family (application)

US 57560104 A 20040925; AR P040103833 A 20041021; AT 04765624 T 20040925; AU 2004291230 A 20040925; BR PI0415543 A 20040925; CA 2541406 A 20040925; CN 200480031380 A 20040925; DE 10349950 A 20031024; DE 502004009234 T 20040925; EG NA2006000364 A 20060419; EP 04765624 A 20040925; EP 2004010794 W 20040925; ES 04765624 T 20040925; JP 2006535975 A 20040925; KR 20067007308 A 20060414; MX PA06004519 A 20040925; PL 04765624 T 20040925; RU 2006117792 A 20040925; TW 93129505 A 20040930; UA A200605661 A 20040925; ZA 200602501 A 20060327