

Title (en)

Vertical rolling stand for use in a hot rolling mill line for the parallel-simultaneous production of rods or wires

Title (de)

Vertikales Walzgerüst für Heisswalzanlagen zur Parallel-Simultanerzeugung von Stangen oder Drähten

Title (fr)

Laminoir vertical pour un dispositif de laminage à chaud pour la fabrication parallèle-simultanée des tiges ou des fils

Publication

EP 1236522 A2 20020904 (DE)

Application

EP 02001551 A 20020123

Priority

IT PN20010010 A 20010215

Abstract (en)

[origin: US2002116804A1] A rolling system has a plant producing a plurality of continuously advancing and parallel hot metal strands, a vertical-roll stand receiving the strands, and a horizontal-roll stand. The vertical-roll stand has an upstream row of vertical pairs of rolls and, immediately downstream therefrom in a movement direction of the strands, a downstream row of vertical pairs or rolls with nips offset laterally from the nips of the upstream row. Every other strand passes by the upstream roll pairs and through the nips of the downstream roll pairs and the remaining strands pass through the nips of the upstream roll pairs and by the downstream roll pairs. The horizontal-roll stand is aligned with the vertical-roll stand and has a pair of horizontal rolls forming a plurality of nips aligned in the direction with the vertical-roll stand nips.

Abstract (de)

Vertikales Mehrfachdraht-Walzgerüst für Heißwalzanlagen zur Parallel-Simultanerzeugung einer Vielzahl von Stangen oder Drähten (b1, b2, ...bn) mit Vertikal- und Horizontalwalzmitteln zum fortlaufenden Heißwalzen derselben, wobei die besagten vertikalen Walzmittel eine Anzahl von vertikalen Walzrollenpaaren umfassen, die mindestens der Anzahl der besagten, mit zwei Reihen von versetzten Rollenpaaren zu walzenden Streifen/Stangen/Drähte entspricht; <IMAGE>

IPC 1-7

B21B 1/46; **B21B 13/00**

IPC 8 full level

B21B 1/00 (2006.01); **B21B 1/16** (2006.01); **B21B 1/18** (2006.01); **B21B 1/46** (2006.01); **B21B 13/06** (2006.01); **B21B 13/22** (2006.01); **B21B 35/04** (2006.01); **B22D 11/00** (2006.01); **B22D 11/12** (2006.01); **B21B 1/08** (2006.01); **B21B 3/00** (2006.01); **B21B 13/00** (2006.01); **B21B 15/00** (2006.01); **B21B 39/00** (2006.01); **B21B 41/08** (2006.01)

CPC (source: EP US)

B21B 1/18 (2013.01 - EP US); **B21B 1/463** (2013.01 - EP US); **B21B 13/06** (2013.01 - EP US); **B21B 35/04** (2013.01 - EP US); **B21B 1/08** (2013.01 - EP US); **B21B 1/0815** (2013.01 - EP US); **B21B 3/00** (2013.01 - EP US); **B21B 13/005** (2013.01 - EP US); **B21B 39/006** (2013.01 - EP US); **B21B 41/08** (2013.01 - EP US); **B21B 2013/003** (2013.01 - EP US); **B21B 2013/006** (2013.01 - EP US); **B21B 2015/0057** (2013.01 - EP US); **B21B 2203/22** (2013.01 - EP US); **Y10T 29/5184** (2015.01 - EP US)

Cited by

CN103551857A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1236522 A2 20020904; **EP 1236522 A3 20021002**; IT PN20010010 A1 20020816; JP 2002292401 A 20021008; US 2002116804 A1 20020829; US 6568056 B2 20030527

DOCDB simple family (application)

EP 02001551 A 20020123; IT PN20010010 A 20010215; JP 2002035599 A 20020213; US 7609502 A 20020214