

Title (en)
Rolling-mill train with sequential stands, in particular a tandem rolling installation

Title (de)
Walzstrasse mit gestaffelten Gerüsten, insbesondere Tandemwalzanlage

Title (fr)
Train de laminage à cages en série, en particulier installation de laminage en tandem

Publication
EP 1232807 A3 20040818 (DE)

Application
EP 02000637 A 20020111

Priority
DE 10103686 A 20010127

Abstract (en)
[origin: US2002108424A1] A rolling roll train of the staggered-roll tandem type has a pair of upright stand walls with windows or openings for receiving a multiplicity of pairs of rolls which can be changed as a unit. The fact that unitary walls with traverses between the walls for stabilizing them and where those traverses are located between the roll pairs, enables the spacing between the roll pairs to be substantially reduced by comparison with free-standing individual mill stands for the roll pairs.

IPC 1-7
B21B 31/02; **B21B 31/10**

IPC 8 full level
B21B 31/02 (2006.01); **B21B 31/10** (2006.01); **B21B 1/08** (2006.01); **B21B 1/12** (2006.01); **B21B 13/02** (2006.01); **B21B 31/00** (2006.01); **B21B 31/06** (2006.01); **B21B 35/02** (2006.01); **B21B 39/16** (2006.01)

CPC (source: EP US)
B21B 31/02 (2013.01 - EP US); **B21B 31/103** (2013.01 - EP US); **B21B 1/088** (2013.01 - EP US); **B21B 1/12** (2013.01 - EP US); **B21B 13/02** (2013.01 - EP US); **B21B 31/00** (2013.01 - EP US); **B21B 31/06** (2013.01 - EP US); **B21B 35/02** (2013.01 - EP US); **B21B 39/16** (2013.01 - EP US); **B21B 2031/021** (2013.01 - EP US); **B21B 2031/023** (2013.01 - EP US)

Citation (search report)

- [A] JP S5330457 A 19780322 - ISHIKAWAJIMA HARIMA HEAVY IND, et al
- [A] EP 0857522 A1 19980812 - SCHLOEMANN SIEMAG AG [DE]
- [DA] EP 0857521 A1 19980812 - SCHLOEMANN SIEMAG AG [DE]
- [A] EP 1048371 A2 20001102 - TECHINT SPA [IT]
- [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 428 (M - 1025) 14 September 1990 (1990-09-14)

Cited by
EP1234620A3; WO03022472A1

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 1232807 A2 20020821; **EP 1232807 A3 20040818**; DE 10103686 A1 20020801; US 2002108424 A1 20020815; US 6672124 B2 20040106

DOCDB simple family (application)
EP 02000637 A 20020111; DE 10103686 A 20010127; US 5634402 A 20020125