

Title (en)

Apparatus and method for hot-rolling slab into sheets.

Title (de)

Vorrichtung und Verfahren zum Warmwalzen von Bändern aus Brammen.

Title (fr)

Dispositif et procédé pour laminier à chaud des bandes à partir de brames.

Publication

EP 0320846 A1 19890621 (EN)

Application

EP 88120720 A 19881212

Priority

JP 31888887 A 19871218

Abstract (en)

A hot rolling apparatus having a rough rolling mill (24, 35, 36) and a finish rolling mill (28, 37) disposed downstream of the rough rolling mill (24, 35, 36) so as to successively roll a slab material (7) to reduce the thickness of the material thereby to produce a sheet product (32). The rough rolling mill (24, 35, 36) comprises a reversible rolling mill capable of performing forward and backward passes. A take-up device (65, 71) capable of coiling and uncoiling the material under rolling is provided on the upstream side of the rough rolling mill (24, 35, 36). This arrangement eliminates necessity for a huge table system which is used for supporting the long rolled material after a backward rough rolling pass immediately before the last forward rough pass, so that the size and investment cost of the apparatus can be remarkably reduced.

IPC 1-7

B21B 1/06; **B21B 1/26**

IPC 8 full level

B21B 1/06 (2006.01); **B21B 1/26** (2006.01); **B21B 1/46** (2006.01); **B21B 1/02** (2006.01); **B21B 1/34** (2006.01); **B21B 15/00** (2006.01); **B21B 45/00** (2006.01); **B21B 45/06** (2006.01)

CPC (source: EP KR)

B21B 1/06 (2013.01 - EP); **B21B 1/26** (2013.01 - EP); **B21B 1/466** (2013.01 - EP); **B21B 37/00** (2013.01 - KR); **B21B 1/34** (2013.01 - EP); **B21B 45/004** (2013.01 - EP); **B21B 45/06** (2013.01 - EP); **B21B 2001/028** (2013.01 - EP); **B21B 2015/0057** (2013.01 - EP)

Citation (search report)

- [X] GB 652772 A 19510502 - BRASSET & CO
- [X] DE 1162796 C
- [X] US RE31344 E 19830816
- [X] US 4019359 A 19770426 - SMITH WILLIAM
- [A] GB 2030491 A 19800410 - TIPPINS MACH
- [A] EP 0183187 A1 19860604 - TIPPINS MACH [US]
- [A] EP 0177187 A1 19860409 - TIPPINS MACH [US]
- [A] DE 1158024 B 19631128 - MOELLER & NEUMANN VERWALT GES
- [A] EP 0088745 A1 19830914 - VOEST ALPINE AG [AT]

Cited by

EP0674952A1; US5437089A; EP0734793A1; EP0368048A3; US5430930A; CN111804729A; DE4436453A1; DE4436453C2; EP0659503A3; CN1048434C; EP0761326A1; EP1044734A3; EP0449004A3; DE4009860C2; EP0625383A1; US5542165A; EP0531755A1; US5528816A; EP0594828A4; WO9205889A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0320846 A1 19890621; AU 2669088 A 19890622; BR 8806692 A 19890829; CN 1034323 A 19890802; KR 890009480 A 19890802

DOCDB simple family (application)

EP 88120720 A 19881212; AU 2669088 A 19881208; BR 8806692 A 19881216; CN 88108699 A 19881217; KR 880016394 A 19881209