

Title (en)
Housingless rolling stand

Title (de)
Ständerloses Walzgerüst

Title (fr)
Laminoir sans cage

Publication
EP 0919298 A3 20020320 (DE)

Application
EP 98122284 A 19981124

Priority
DE 19752547 A 19971127

Abstract (en)
[origin: EP0919298A2] The two groups (6, 7) of connector elements (8) joining the roll bearings (5) with one another have no drives for roll adjustment in the (z) direction beyond their load displacement range in the same direction.

IPC 1-7
B21B 31/04; **B21B 31/20**

IPC 8 full level
B21B 31/04 (2006.01); **B21B 31/20** (2006.01); **B21B 31/32** (2006.01); **B21B 13/02** (2006.01); **B21B 13/10** (2006.01); **B21B 31/24** (2006.01)

CPC (source: EP US)
B21B 31/04 (2013.01 - EP US); **B21B 31/20** (2013.01 - EP US); **B21B 13/02** (2013.01 - EP US); **B21B 31/24** (2013.01 - EP US);
B21B 31/32 (2013.01 - EP US); **B21B 2013/106** (2013.01 - EP US)

Citation (search report)
• [XA] FR 2062600 A5 19710625 - LOEWY ROBERTSON ENG CO LTD
• [XA] EP 0557874 A1 19930901 - DANIELI OFF MECC [IT]
• [A] EP 0065935 A2 19821201 - DANIELI OFF MECC [IT]
• [A] DE 2506449 A1 19750821 - NIPPON KOKAN KK
• [A] US 4715206 A 19871229 - FORNI LUIGI [IT]

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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EP 0919298 A2 19990602; **EP 0919298 A3 20020320**; DE 19752547 A1 19990602; JP H11226616 A 19990824; US 6021656 A 20000208

DOCDB simple family (application)
EP 98122284 A 19981124; DE 19752547 A 19971127; JP 33628698 A 19981126; US 19655098 A 19981120