

Title (en)  
Rolling stand for rolling strips

Title (de)  
Walzgerüst zum Walzen von Bändern

Title (fr)  
Cage de laminoir pour le laminage de bandes

Publication  
**EP 0899029 A3 19990915 (DE)**

Application  
**EP 98115252 A 19980813**

Priority  
DE 19736767 A 19970823

Abstract (en)  
[origin: EP0899029A2] I- Working rolls (13a, 13b) and intermediate rolls (12a, 12b) have annular recesses (15a, 15b; 16a, 16b) in one end surface between roll journals (18a, 18b; 17a, 17b) and roll barrels. During rolling, working rolls and intermediate rolls are displaced so that above and below the strip (14) being rolled there is at least one roll with its annular groove in the strip edge zone.

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IPC 8 full level  
**B21B 13/14** (2006.01); **B21B 27/02** (2006.01); **B21B 37/40** (2006.01); **B21B 13/02** (2006.01); **B21B 27/05** (2006.01)

CPC (source: EP KR US)  
**B21B 1/22** (2013.01 - KR); **B21B 13/142** (2013.01 - EP US); **B21B 27/02** (2013.01 - EP US); **B21B 27/021** (2013.01 - KR);  
**B21B 37/40** (2013.01 - EP KR US); **B21B 27/05** (2013.01 - EP US); **B21B 2013/028** (2013.01 - EP US); **B21B 2267/06** (2013.01 - KR)

Citation (search report)  
• [PA] EP 0815970 A1 19980107 - SCHLOEMANN SIEMAG AG [DE] & DE 19626565 A1 19980108 - SCHLOEMANN SIEMAG AG [DE]  
• [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 491 (M - 1040) 25 October 1990 (1990-10-25)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 021 (M - 449) 28 January 1986 (1986-01-28)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 299 (M - 524) 11 October 1986 (1986-10-11)

Cited by  
WO9947283A1

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**EP 0899029 A2 19990303**; **EP 0899029 A3 19990915**; **EP 0899029 B1 20020403**; AT E215409 T1 20020415; AU 731151 B2 20010322;  
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CN 1210041 A 19990310; DE 19736767 A1 19990304; DE 19736767 C2 20031030; DE 59803588 D1 20020508; ES 2175574 T3 20021116;  
ID 20757 A 19990225; JP 4426001 B2 20100303; JP H11123407 A 19990511; KR 100530623 B1 20060127; KR 19990023733 A 19990325;  
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CN 98118662 A 19980824; DE 19736767 A 19970823; DE 59803588 T 19980813; ES 98115252 T 19980813; ID 981150 A 19980820;  
JP 23180298 A 19980818; KR 19980033758 A 19980820; MY PI9803712 A 19980814; RU 98116052 A 19980821; TW 87113455 A 19980815;  
US 13270898 A 19980812