

Publication

EP 0867241 A3 19981021

Application

EP 98112117 A 19951125

Priority

- DE 19509067 A 19950314
- EP 95118599 A 19951125

Abstract (en)

[origin: EP0732160A2] Al or steel strip is monitored by a device (5) located above the strip and the surface flatness and condition is relayed to a control unit (14) which in response can alter the curvature of tension roll (8) and/or alter the positions of the stretch rolls (12).

IPC 1-7

B21D 1/05

IPC 8 full level

B21D 1/05 (2006.01)

CPC (source: EP US)

B21D 1/05 (2013.01 - EP US)

Citation (search report)

- [DA] EP 0012738 A1 19800625 - VOEST ALPINE AG [AT]
- [DA] DE 3912676 A1 19901025 - BWG BERGWERK WALZWERK [DE]
- [DA] DE 4230243 C1 19940127 - BWG BERGWERK WALZWERK [DE]
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- [A] DE 2117489 A1 19711028
- [XA] KNAPP S ET AL: "DAS STRECKBIEGERICHTEN UND SEIN EINFLUSS AUF DIE EIGENSCHAFTEN VON GEWALZTEN EDELSTAHL-KALTBAENDERN", STAHL UND EISEN, vol. 114, no. 9, 16 September 1994 (1994-09-16), pages 91 - 96, 144, XP000467518
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 191 (M - 495) 4 July 1986 (1986-07-04)
- [DA] PATENT ABSTRACTS OF JAPAN vol. 009, no. 046 (M - 360) 27 February 1985 (1985-02-27)

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Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

EP 0732160 A2 19960918; EP 0732160 A3 19970820; EP 0732160 B1 20010816; DE 19509067 A1 19960919; DE 59509514 D1 20010920; DE 59510627 D1 20030508; EP 0867241 A2 19980930; EP 0867241 A3 19981021; EP 0867241 B1 20030402; US 5704237 A 19980106; US 5829286 A 19981103; US 5829287 A 19981103

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EP 95118599 A 19951125; DE 19509067 A 19950314; DE 59509514 T 19951125; DE 59510627 T 19951125; EP 98112117 A 19951125; US 61569996 A 19960313; US 84247697 A 19970423; US 84247797 A 19970423