

Title (en)

DEVICE FOR CONTROLLING THE LIFTING AND PRESSING MOVEMENTS OF THE PRESSURE ROLLERS OF HOT STRIP COILERS

Publication

**EP 0222231 A3 19890315 (DE)**

Application

**EP 86114743 A 19861023**

Priority

DE 3539900 A 19851111

Abstract (en)

[origin: US4736605A] The device serves to control the desired lifting and pressure-containing movements of strip pressure rolls for the reels which serve to store hot rolled strip. These reels have a rotating mandrel. The pressure rolls are actuated by piston and cylinder units for positioning the rolls electro-hydraulically in conformity with signals which indicate the relative position of the leading strip edge which rotates with the mandrel. The positioning of the roll, by the lifting and pressure-contacting movements, is effected by position control with subordinated pressure control in a closed-circuit position control loop and a closed-circuit pressure control loop, by input of a setpoint position value which corresponds to the respectively prevailing pressure-contacting and lifting position of the pressure rolls, and by establishment of limited setpoint pressure values for both functions or directions of movement.

IPC 1-7

**B21C 47/06**

IPC 8 full level

**B65H 19/28** (2006.01); **B21C 47/06** (2006.01)

CPC (source: EP KR US)

**B21B 37/00** (2013.01 - KR); **B21C 47/063** (2013.01 - EP US)

Citation (search report)

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- [AD] DE 2158721 A1 19730530 - INDRAMAT GMBH
- [A] US 4380164 A 19830419 - KUWANO HIROAKI [JP]
- [X] PATENT ABSTRACTS OF JAPAN, Band 8, Nr. 201 (M-325)[1638], 14. September 1984; & JP-A-59 092 118 (MITSUBISHI JUKOGYO K.K.) 28-05-1984
- [X] PATENT ABSTRACTS OF JAPAN, Band 9, Nr. 38 (M-358)[1761], 19. Februar 1985; & JP-A-59 179 218 (MITSUBISHI JUKOGYO K.K.) 11-10-1984
- [X] PATENT ABSTRACTS OF JAPAN, Band 9, Nr. 142 (M-388)[1865], 18. Juni 1985; & JP-A-60 021 122 (MITSUBISHI JUKOGYO K.K.) 02-02-1985
- [X] PATENT ABSTRACTS OF JAPAN, Band 9, Nr. 22 (M-354)[1745], 30. Januar 1985; & JP-A-59 169 619 (ISHIKAWAJIMA HARIMA JUKOGYO K.K.) 25-09-1984
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- [A] PATENT ABSTRACTS OF JAPAN, Band 6, Nr. 69 (M-125)[947] 30. April 1982; & JP-A-57 009 531 (HITACHI SEISAKUSHO K.K.) 19-01-1982

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