

Title (en)  
METHOD TO COMPENSATE THE INFLUENCE OF ROLL EXCENTRICITIES

Publication  
**EP 0170016 B1 19881207 (DE)**

Application  
**EP 85107336 A 19850613**

Priority  
DE 3424693 A 19840705

Abstract (en)  
[origin: US4685063A] A process and device for compensation of the effect of roll eccentricities upon thickness regulation of material being rolled in a roll stand (1), wherein eccentricity oscillations are simulated by a model (6) based on measured values of roll adjustment position (s), roll force (FW) and mean support roll speed (n), together with spring constants (CG, CM) for the roll stand and the material. An output signal ( DELTA R) of the model (6) is used to modify the thickness value (ha+ DELTA R) used for regulation, so as to compensate for the effect of roll eccentricity. The model may be implemented by a device (RECO) comprising pairs of oscillators (7), the phase and amplitude relationships of which are adjusted according to the observer principle.

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**B21B 37/00**

IPC 8 full level  
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CPC (source: EP US)  
**B21B 37/66** (2013.01 - EP US)

Citation (examination)  
• US 3460365 A 19690812 - HOWARD DAVID ROBERT  
• US 3543549 A 19701201 - HOWARD DAVID ROBERT  
• JP S5581014 A 19800618 - TOKYO SHIBAURA ELECTRIC CO

Cited by  
EP0698427A1; EP0424709A3; EP0684090A1; US5647238A; DE4410960A1; DE4410960B4; DE102006008574A1; EP0407628A1; US5647237A; DE4411313A1; DE4411313C2; US8408032B2; US8386066B2; EP2602676A1; WO2013083344A1

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