

Title (en)

METHOD OF STRAIGHTENING SHEET METAL, STRIP, PANELS, SECTIONS, BEAMS, ETC.

Publication

EP 0371280 A3 19910502 (DE)

Application

EP 89120439 A 19891104

Priority

DE 3840016 A 19881126

Abstract (en)

[origin: EP0371280A2] During the straightening operation, vertical forces, inter alia, are known to occur at the straightening rolls of the straightening machine, the size of which forces depends on the properties of the material to be straightened, the dimensions of the straightening machine and the selected screw-down movements of the straightening rolls. These forces cause elastic deformation of the straightening machine, in particular of the rolls, the bearings and the frame, which adversely affect the straightening result for the material to be straightened. In order to avoid this, therefore, suitable measures must be used to keep the dependency of the straightening result in roll straightening machines free of fluctuations and deviations in the properties of the material to be straightened. This is achieved according to the invention by every straightening force which acts perpendicularly on the rotational axes of the straightening rolls and/or the roll bearings and/or on the frame of the straightening machine being measured independently and by the straightening rolls being automatically readjusted as a function of the measured values in the area of the varying pressure forces occurring.

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B21D 7/02

IPC 8 full level

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CPC (source: EP US)

B21D 1/02 (2013.01 - EP US); **B21D 3/02** (2013.01 - EP US)

Citation (search report)

- [XD] DE 3308616 A1 19840913 - SCHLOEMANN SIEMAG AG [DE]
- [X] EP 0182062 A2 19860528 - SCHNUTZ FR W GMBH & CO [DE]

Designated contracting state (EPC)

AT DE ES FR GB IT

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EP 0371280 A2 19900606; **EP 0371280 A3 19910502**; **EP 0371280 B1 19930609**; AT E90232 T1 19930615; DE 3840016 A1 19900531; DE 58904631 D1 19930715; JP H02182320 A 19900717; US 5115653 A 19920526

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