

Title (en)  
ROLLING STAND FOR FLAT PRODUCTS

Publication  
**EP 0354351 A3 19900905 (DE)**

Application  
**EP 89112430 A 19890707**

Priority  
DE 3826822 A 19880806

Abstract (en)  
[origin: EP0354351A2] In order to obtain the surface accuracy and quality required when rolling flat products, the working rollers must be guided in the rolling nip in special paths. Guide pieces are used here in the conventionally driven working rolls. The construction for the roll drives is very expensive and the elements for the roll-nip adjustment are subjected to high wear. The invention is based on the object of designing the guide of the working rolls in the roll nip with simple structural means and in such a way that wear is largely avoided. This object is achieved by non-driven working rolls in a rolling stand being housed so as to move radially in driven support bodies and rotating with the latter. The construction is thereby considerably simplified. They are supported on intermediate rings which are mounted eccentrically on shafts. A largely wear-free roll-nip adjustment is achieved by rotating these shafts by means of cranks, guide rollers and levers. Rolling stands according to the invention are advantageously employed for producing all types of flat products with high surface requirements. <IMAGE>

IPC 1-7  
**B21B 13/20**

IPC 8 full level  
**B21B 13/20** (2006.01); **B21B 31/08** (2006.01); **B21B 31/20** (2006.01)

CPC (source: EP)  
**B21B 13/20** (2013.01); **B21B 31/08** (2013.01); **B21B 31/203** (2013.01)

Citation (search report)  
• [X] GB 655190 A 19510711 - ARMCO INT CORP  
• [AD] DE 956393 C 19570117 - FRANZ PLATZER DR  
• [A] FR 1215979 A 19600421  
• [A] JAPANESE PATENT GAZETTE, Woche 7630, Sektion General/Mechanical, Accession Nr. 76-56692X (30), Derwent Publications Ltd, London, GB; & JP-A<sup>3</sup>51 066 263 (HITACHI K.K.) 08-06-1976

Designated contracting state (EPC)  
AT DE FR GB IT

DOCDB simple family (publication)  
**EP 0354351 A2 19900214**; **EP 0354351 A3 19900905**; DE 3826822 A1 19900215; JP H0275402 A 19900315

DOCDB simple family (application)  
**EP 89112430 A 19890707**; DE 3826822 A 19880806; JP 20297589 A 19890807