

Title (en)

Position indicator for measuring the setting stroke way of the roll of a rolling frame

Title (de)

Positionsgeber zur Anstellhubwegmessung der Walzen eines Walzgerüstes

Title (fr)

Indicateur de position pour mesurer le chemin de mise en prise d'élévation du rouleau d'une charpente de laminoir

Publication

**EP 1001247 A3 20011121 (DE)**

Application

**EP 99121755 A 19991103**

Priority

DE 19851480 A 19981109

Abstract (en)

[origin: US6173596B1] A position detector used with a roll stand having a fixed frame member and a roll-carrying member movable in a direction relative to the frame member, has first and second sleeves telescoping in the direction adjacent the members, a mount securing one of the sleeves to one of the members, and a fixed-length but elastically bendable link rod extending in the direction and having one end fixed to the other of the members and an opposite end fixed to the other of the sleeves. Thus on relative movement of the fixed and movable members the sleeves slide in the direction in each other. A sensor rod having one end fixed in the first sleeve extends in the direction into the second sleeve. A position sensor in the second sleeve juxtaposed with the sensor rod determines a position of the members relative to each other in the direction.

IPC 1-7

**G01B 5/00; B21B 38/10**

IPC 8 full level

**B21B 31/20** (2006.01); **B21B 31/02** (2006.01); **B21B 31/32** (2006.01); **B21B 38/10** (2006.01); **B21B 37/62** (2006.01)

CPC (source: EP US)

**B21B 38/10** (2013.01 - EP US); **B21B 31/32** (2013.01 - EP US); **B21B 37/62** (2013.01 - EP US); **B21B 2203/12** (2013.01 - EP US)

Citation (search report)

- [A] DE 3212525 A1 19831124 - MANNESMANN AG [DE]
- [A] US 4194383 A 19800325 - HUZYAK PAUL [US]
- [A] DE 3804163 A1 19890824 - LIPINSKI REINHARD [DE]
- [A] EP 0163247 A2 19851204 - MANNESMANN AG [DE]
- [AP] US 5970599 A 19991026 - GARNETT DONALD W [US], et al

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Designated contracting state (EPC)

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DOCDB simple family (publication)

**US 6173596 B1 20010116**; AT E421677 T1 20090215; DE 19851480 A1 20000511; DE 19851480 B4 20070913; DE 59914952 D1 20090312; EP 1001247 A2 20000517; EP 1001247 A3 20011121; EP 1001247 B1 20090121; ES 2318881 T3 20090501; JP 2000140914 A 20000523; JP 4377010 B2 20091202

DOCDB simple family (application)

**US 43575699 A 19991108**; AT 99121755 T 19991103; DE 19851480 A 19981109; DE 59914952 T 19991103; EP 99121755 A 19991103; ES 99121755 T 19991103; JP 30771199 A 19991028