Title (en)

Rolling mill guiding unit.

Title (de)

Walzgutführungseinrichtung.

Title (fr)

Dispositif de guidage dans un laminoir.

Publication

**EP 0202377 A1 19861126 (EN)**

Application

**EP 85306238 A 19850903**

Priority

JP 10617485 A 19850520

Abstract (en)

There is disclosed a rolling mill guiding unit which comprises a support stand (1), a pair of roller holders (2a, 2b), a pair of guide rollers (8a, 8b) rotatably mounted one on each holder (2a, 2b) at one end thereof and defining therebetween a roller gap through which rolling material (M) is passed, a respective pivot (3) mounting each holder (2a, 2b) on the support stand, a spring arrangement (20) engaging with the holders (2a, 2b) so as to bias them to turn about the pivots (3) in a direction such as to increase the roller gap between the guide rollers (8a, 8b), and a driving device (10) engaging with the holders (2a, 2b) and operable to cause the holders to turn about their pivots (3) in a direction such as to reduce the roller gap and thereby force the guide rollers (8a, 8b) into engagement with the rolling material (M). The driving device comprises a ram (10) which has a line of action extending parallel to the direction of passage of the rolling material (M) through the rolling mill, and a transversely extending support element (16) can be reciprocated longitudinally of the rolling mill for the purposes of varying the adjustment of the roller gap. A pair of sliders (17a, 17b) are mounted one on each end of the transversely extending support element (16) and engage with pressure rollers (19a, 19b) provided on the holders (2a, 2b) on the other side of the pivots (3) from the guide rollers (8a, 8b). The sliders (17a, 17b) have continuous engagement with the pressure rollers (19a, 19b) via smooth wedging surfaces, thereby enabling accurate adjustment of the roller gap under the action of the ram (10). In addition, fine adjustment of the roller gap can be obtained by forming the support element (16) from two separable shaft portions (16a, 16b) having oppositely directed external threads, and by providing an internally threaded pipe (21) which is mounted on the shaft portions. The pipe (21) can be manually rotated by a ratchet mechanism (23, 24), or a spanner (S) engaging a nut-like portion (211), in order to effect fine adjustment of the roller gap. This fine adjustment can be carried out when rolling material (M) is passing through the rolling mill, or in the absence of the rolling material.

IPC 1-7

**B21B 39/16**; B21B 39/14

IPC 8 full level

**B21B 39/14** (2006.01); **B21B 39/16** (2006.01)

CPC (source: EP KR)

**B21B 39/14** (2013.01 - KR); **B21B 39/165** (2013.01 - EP)

Citation (search report)

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