

Title (en)  
ROLL CHANGING DEVICE FOR SIX-ROLL ROLLING STANDS

Publication  
**EP 0112981 B1 19890927 (DE)**

Application  
**EP 83109930 A 19831005**

Priority  
DE 3244200 A 19821130

Abstract (en)  
[origin: US4510783A] A changing apparatus for a standard six-high rolling stand comprises a changing carriage having a pair of similar full-set holders each provided with two vertically spaced working-roll supports and two vertically spaced backup-roll supports flanking the respective working-roll supports. These supports are vertically spaced like the respective rolls in the stand. Thus a full set of two working and two backup rolls can be held in either of the holders. The changing carriage can be displaced between upstream and downstream positions to axially align with the rolls in the stand. A loading carriage has a working-roll holder with two vertically spaced working-roll supports and a backup-roll holder with two vertically spaced backup-roll supports, the carriage being displaceable into a position with the working-roll supports of the working-roll holder aligned with the working-roll supports of one of the full-set holders and a position with the backup-roll supports of the backup-roll holder aligned with the backup-roll supports of the one full-set holder. The rolls can be axially shifted from the loading carriage holders into the one full-set holder, rolls are then axially shifted from the stand into the other full-set holder, and rolls in the one full-set holder are shifted into the roll stand.

IPC 1-7  
**B21B 31/08**

IPC 8 full level  
**B21B 31/08** (2006.01); **B21B 31/10** (2006.01); **B21B 13/02** (2006.01); **B21B 27/10** (2006.01)

CPC (source: EP US)  
**B21B 31/103** (2013.01 - EP US); **B21B 27/106** (2013.01 - EP US); **B21B 2013/028** (2013.01 - EP US)

Cited by  
EP0911089A3; EP0607541A1; EP1136143A3; EP1074382A1; FR2692179A1; US5412969A; US6688366B1; WO2007080087A1

Designated contracting state (EPC)  
AT BE DE FR GB IT

DOCDB simple family (publication)  
**US 4510783 A 19850416**; AT E46638 T1 19891015; DE 3244200 A1 19840530; DE 3380622 D1 19891102; EP 0112981 A2 19840711; EP 0112981 A3 19860219; EP 0112981 B1 19890927; JP H0216164 B2 19900416; JP S59107709 A 19840622; SU 1179910 A3 19850915

DOCDB simple family (application)  
**US 55545883 A 19831128**; AT 83109930 T 19831005; DE 3244200 A 19821130; DE 3380622 T 19831005; EP 83109930 A 19831005; JP 22340883 A 19831129; SU 3665454 A 19831128