

Title (en)

COMBINED ROLL LOCK/ DRIVE SPINDLE HOLDER FOR ROLL SYSTEMS

Title (de)

KOMBINIERTE WALZENVERRIEGELUNG/ ANTRIEBSSPINDELHALTERUNG FÜR WALZANLAGEN

Title (fr)

VERROUILLAGE DE CYLINDRE/SUPPORT DE BROCHE D'ENTRAÎNEMENT COMBINÉS POUR INSTALLATION DE LAMINAGE

Publication

EP 2753437 A1 20140716 (DE)

Application

EP 12751047 A 20120821

Priority

- DE 102011082372 A 20110908
- EP 2012066278 W 20120821

Abstract (en)

[origin: WO2013034433A1] Following the release of the lock on axially movable rolls, during a roll change for example, the necessary holding and/or clamping of the drive spindle heads is achieved with known devices by means of their own separate mechanical unit, which is hydraulically actuated and fastened to the base, to the roll upright or to the extension rails of the rolls. Due to the extremely restricted spatial conditions on the drive side of the rolls, a roll displacement arrangement with roll lock device and a drive spindle head holder on the drive side can often be realised only by means of complex, expansive and heavy structures. In order to structurally simplify, using suitable space and cost-saving means, the locking of the rolls and the holding of the drive spindle heads, and to enable both also on the drive side of the rolls under otherwise inadequate spatial conditions, the invention proposes combining the roll lock device (10) and the drive spindle head holder to form one compact structural unit (11), containing a swing bolt (12) rotatably arranged in a coaxial direction around the axial displacement cylinder (17), said swing bolt during operation of the roll system being swivelled in for locking and swivelled out for unlocking, wherein while the swing bolt (12) is being swivelled out, a side support arm (14), which is part of the swing bolt (12), is swivelled in as a support for the drive spindle head.

IPC 8 full level

B21B 31/18 (2006.01)

CPC (source: EP)

B21B 31/18 (2013.01); **B21B 31/10** (2013.01)

Citation (search report)

See references of WO 2013034433A1

Cited by

CN112847086A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2013034433 A1 20130314; DE 102011082372 A1 20130314; EP 2753437 A1 20140716; EP 2753437 B1 20150617

DOCDB simple family (application)

EP 2012066278 W 20120821; DE 102011082372 A 20110908; EP 12751047 A 20120821