

Title (en)

BACK-UP OR INTERMEDIATE ROLLER FOR PRODUCING A FLAT ROLLED PRODUCT IN A ROLLING MILL

Title (de)

STÜTZ- ODER ZWISCHENWALZE IN WALZWERKEN ZUM WALZEN VON FLACHEM WALZGUT

Title (fr)

CYLINDRE D'APPUI OU INTERMEDIAIRE MONTE DANS DES LAMINOIRS POUR LE LAMINAGE D'UN PRODUIT PLAT

Publication

**EP 1100633 B1 20021211 (DE)**

Application

**EP 99947207 A 19990712**

Priority

- DE 9902176 W 19990712
- DE 19835089 A 19980724

Abstract (en)

[origin: US6408668B1] A supporting or intermediate roll in rolling mills for rolling flat rolling stock, in particular strip material, having a cylindrical roll core and a tubular sleeve which is connected in a rotationally fixed manner to said roll core, engages coaxially around the same and between which and the roll core there are arranged hydraulically axially displaceable supporting bodies which support the roll sleeve against the roll core. In this case, the supporting bodies are formed with at least two annular pistons, which are arranged symmetrically in relation to the roll center and are sealed in relation to the roll core and the inside of the roll sleeve, and include a plurality of annular supporting bearings, which are arranged on the outer circumference of the pistons, are spaced apart from one another in the longitudinal direction of the roll and against which the inner surface of the roll sleeve can be positioned.

IPC 1-7

**B21B 27/05**

IPC 8 full level

**B21B 27/03** (2006.01); **B21B 27/02** (2006.01); **B21B 27/05** (2006.01)

CPC (source: EP US)

**B21B 27/05** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**US 6408668 B1 20020625**; AT E229382 T1 20021215; AU 6077399 A 20000221; BR 9912363 A 20010417; CA 2338495 A1 20000210; CA 2338495 C 20080429; DE 19835089 A1 20000203; DE 19835089 C2 20000824; DE 59903770 D1 20030123; EP 1100633 A1 20010523; EP 1100633 B1 20021211; ES 2184503 T3 20030401; JP 2002521205 A 20020716; JP 4430823 B2 20100310; RU 2220014 C2 20031227; WO 0006315 A1 20000210

DOCDB simple family (application)

**US 74433901 A 20010216**; AT 99947207 T 19990712; AU 6077399 A 19990712; BR 9912363 A 19990712; CA 2338495 A 19990712; DE 19835089 A 19980724; DE 59903770 T 19990712; DE 9902176 W 19990712; EP 99947207 A 19990712; ES 99947207 T 19990712; JP 2000562156 A 19990712; RU 2001105201 A 19990712