

Title (en)  
APPARATUS FOR CONTROLLING VIBRATION OF ROTATING ROLLS

Title (de)  
VORRICHTUNG ZUR STEUERUNG DER VIBRATIONEN VON ROTIERENDEN WALZEN

Title (fr)  
APPAREIL PERMETTANT DE COMMANDER LA VIBRATION DE ROULEAUX ROTATIFS

Publication  
**EP 1386090 A1 20040204 (EN)**

Application  
**EP 02720026 A 20020418**

Priority  
• FI 0200325 W 20020418  
• FI 20010800 A 20010419

Abstract (en)  
[origin: WO02086340A1] An apparatus to observe the vibration of rolling rolls (3), (4) and to control the vibration, during operation, the apparatus comprising a frame (1), into which the bearing housings (7) of both rolling rolls are fixed, a rotary system of the rolls and a system to move and support the bearing housings of the rolls and to produce nip forces and supports between different rolls. The bearing housings of first roll (4) are by means of first upper arm (5) supported in frame, which arm being from its one end fixed to the frame by a joint and the other end of said upper arm fixed to the frame by means of a load cell (10), and further, the apparatus has a separate locking unit (8) loading said end against said load cell and the bearing housings of the second roll (3) are supported in frame by means of the second lower arm (2), which arm is from its one end fixed to the frame by a joint, and further, to support said lower arm with respect to frame the apparatus has a knee-joint linkage (9) affecting the magnitude of nip force and supporting the second arm, the knee-joint of which linkage is affected by a force required in order to increase or decrease the angle of the knee-joint.

IPC 1-7  
**F16C 13/00**; D21G 1/02

IPC 8 full level  
**D21G 1/00** (2006.01); **B21B 31/28** (2006.01); **B21B 35/04** (2006.01); **B21B 35/14** (2006.01); **B21B 37/00** (2006.01)

CPC (source: EP)  
**D21G 1/008** (2013.01); **B21B 31/28** (2013.01); **B21B 35/04** (2013.01); **B21B 35/14** (2013.01); **B21B 37/007** (2013.01); **B21B 2203/44** (2013.01)

Citation (search report)  
See references of WO 02086340A1

Cited by  
CN110814033A

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 02086340 A1 20021031**; AT E344399 T1 20061115; DE 60215792 D1 20061214; DE 60215792 T2 20070830; EP 1386090 A1 20040204; EP 1386090 B1 20061102; FI 110712 B 20030314; FI 20010800 A0 20010419; FI 20010800 A 20021020

DOCDB simple family (application)  
**FI 0200325 W 20020418**; AT 02720026 T 20020418; DE 60215792 T 20020418; EP 02720026 A 20020418; FI 20010800 A 20010419