

Title (en)

Method and device for avoiding vibrations

Title (de)

Verfahren und Vorrichtung zur Vermeidung von Schwingungen

Title (fr)

Procédé et dispositif pour éviter des vibrations

Publication

EP 1457274 A3 20060322 (DE)

Application

EP 04003584 A 20040218

Priority

AT 3642003 A 20030310

Abstract (en)

[origin: EP1457274A2] Process for avoiding vibrations, especially 3- and 5-octave vibrations in a roll unit having a roll stand with provision for roll adjustment, a set of rolls, including a controller, with the aid of which the degree of adjustment, which changes with time, is determined in real time, an actuator, via which one roll of the roll set is admitted (sic) and the degree of control is held at a specific desired value (sic) and the degree of control is held at a specific desired value. Independent claims are included for: (1) a device for avoiding the vibrations; (2) A band-like roll material of thickness variations at least 20% less than given thickness tolerances.

IPC 8 full level

B21B 37/00 (2006.01); **B21B 31/20** (2006.01); **B21B 37/58** (2006.01); **B21B 37/66** (2006.01)

CPC (source: EP)

B21B 37/007 (2013.01)

Citation (search report)

- [E] DE 10254958 A1 20040603 - SMS DEMAG AG [DE]
- [A] WO 9703832 A1 19970206 - BOETTCHER GMBH & CO FELIX [DE], et al
- [A] WO 0023204 A1 20000427 - HOOGOVENS CORPORATE SERVICES B [NL], et al
- [DA] US 5724846 A 19980310 - WANG ALBERT C [US], et al
- [A] EP 0978589 A2 20000209 - VOITH SULZER PAPIERTECH PATENT [DE] & US 6387214 B1 20020514 - KUSTERMAN MARTIN [DE], et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 018, no. 314 (M - 1621) 15 June 1994 (1994-06-15)

Cited by

CN102271832A; RU2503512C2; CN102256716A; CN104204552A; DE102018007847A1; DE102007006683A1; EP1961992A3; US10166584B2; EP1657003A1; FR2877862A1; CN1330437C; DE102016202367A1; CN108136459A; RU2697116C1; CN114226472A; WO2017050493A1; WO2010063664A1; WO2010063661A3; US8695391B2; US10065225B2; US7188496B2; WO2020239589A1; US11123781B2; WO2009153101A1; WO2016014316A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1457274 A2 20040915; EP 1457274 A3 20060322; EP 1457274 B1 20080507; AT 500766 A1 20060315; AT 500766 B1 20080615; AT E394176 T1 20080515; DE 502004007020 D1 20080619; ES 2306929 T3 20081116

DOCDB simple family (application)

EP 04003584 A 20040218; AT 04003584 T 20040218; AT 3642003 A 20030310; DE 502004007020 T 20040218; ES 04003584 T 20040218