

Title (en)
ROLL STAND COMPRISING A CROWN-VARIABLE-CONTROL (CVC) ROLL PAIR

Title (de)
WALZGERÜST MIT EINEM CVC-WALZENPAAR

Title (fr)
CAGE DE LAMINOIR COMPRENANT UNE PAIRE DE CYLINDRES CVC

Publication
EP 1307302 B1 20041006 (DE)

Application
EP 01960551 A 20010725

Priority
• DE 10039035 A 20000810
• EP 0108581 W 20010725

Abstract (en)
[origin: WO0211916A1] The invention relates to a roll stand comprising a crown-variable-control (CVC) roll pair, preferably a CVC working roll pair and a back-up roll pair, which comprise a contact area (bcont) in which a horizontally active torque (M) acts that leads to a twisting of the rolls and thus to axial forces in the roll bearings. In order to keep the axial forces in the roll bearings as small as possible, the torque (M) is minimized by an appropriate CVC grinding.

IPC 1-7
B21B 13/14; **B21B 27/02**

IPC 8 full level
B21B 13/14 (2006.01); **B21B 27/02** (2006.01); **B21B 31/18** (2006.01); **B21B 37/42** (2006.01)

CPC (source: EP US)
B21B 13/142 (2013.01 - EP US); **B21B 27/02** (2013.01 - EP US)

Cited by
WO2010075961A1; US9180503B2; DE112005002080C5; CN102395434A; CN102256715A; KR101312453B1; DE102010014867A1;
WO2010118862A3; DE102009021414A1

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 0211916 A1 20020214; AT E278482 T1 20041015; AU 8202001 A 20020218; BR 0113149 A 20030708; CA 2420608 A1 20030206;
CA 2420608 C 20100202; CN 1254320 C 20060503; CN 1446130 A 20031001; CZ 2003405 A3 20030813; CZ 298354 B6 20070905;
DE 10039035 A1 20020221; DE 50104024 D1 20041111; EP 1307302 A1 20030507; EP 1307302 B1 20041006; ES 2228927 T3 20050416;
JP 2004505772 A 20040226; JP 4907042 B2 20120328; RU 2268795 C2 20060127; TR 200402674 T4 20041122; US 2004003644 A1 20040108;
US 7059163 B2 20060613; ZA 200300859 B 20031016

DOCDB simple family (application)
EP 0108581 W 20010725; AT 01960551 T 20010725; AU 8202001 A 20010725; BR 0113149 A 20010725; CA 2420608 A 20010725;
CN 01813956 A 20010725; CZ 2003405 A 20010725; DE 10039035 A 20000810; DE 50104024 T 20010725; EP 01960551 A 20010725;
ES 01960551 T 20010725; JP 2002517239 A 20010725; RU 2003106400 A 20010725; TR 200402674 T 20010725; US 34405403 A 20030630;
ZA 200300859 A 20030131