

Title (en)
BRIDLE UNIT

Title (de)
BRIDLEEINHEIT

Title (fr)
UNITE BRIDE

Publication
EP 1417049 B1 20050126 (DE)

Application
EP 02747368 A 20020611

Priority
• DE 10130969 A 20010627
• EP 0206354 W 20020611

Abstract (en)
[origin: US7299672B2] A bridle unit assigned to a rolling stand with several rolls arranged in adjustable positions below and above the strip flow, which can be moved by means of a drive from an initial position to the strip and from the strip back into the initial position, wherein the roll situated closest to the roll gap of the rolling stand can be moved by means of an additional drive from an initial position below the strip flow or from an initial position above the strip flow to the strip, such that, when the bridle unit is used for coloring the strip, the circumference of the roll deflects the strip upward or downward from the horizontal pass line and forms a bite angle above or below the pass line.

IPC 1-7
B21B 39/08

IPC 8 full level
B21B 39/14 (2006.01); **B21B 39/08** (2006.01); **B21B 15/00** (2006.01)

CPC (source: EP KR US)
B21B 39/08 (2013.01 - EP KR US); **B21B 2015/0071** (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 TR

DOCDB simple family (publication)
WO 03002278 A1 20030109; AT E287772 T1 20050215; BR 0209694 A 20040914; BR 0209694 B1 20100810; CA 2449796 A1 20030109; CA 2449796 C 20090818; CN 1234478 C 20060104; CN 1520342 A 20040811; CZ 20033452 A3 20041215; CZ 297376 B6 20061115; DE 10130969 A1 20030116; DE 50202132 D1 20050303; EP 1417049 A1 20040512; EP 1417049 B1 20050126; ES 2235062 T3 20050701; JP 2004535301 A 20041125; JP 4372540 B2 20091125; KR 100849117 B1 20080730; KR 20040015255 A 20040218; RU 2004102049 A 20050620; RU 2292248 C2 20070127; US 2004148994 A1 20040805; US 7299672 B2 20071127; ZA 200308883 B 20040323

DOCDB simple family (application)
EP 0206354 W 20020611; AT 02747368 T 20020611; BR 0209694 A 20020611; CA 2449796 A 20020611; CN 02812903 A 20020611; CZ 20033452 A 20020611; DE 10130969 A 20010627; DE 50202132 T 20020611; EP 02747368 A 20020611; ES 02747368 T 20020611; JP 2003508500 A 20020611; KR 20037015772 A 20031202; RU 2004102049 A 20020611; US 48087203 A 20031211; ZA 200308883 A 20031114