

Title (en)  
BRIDLE UNIT

Title (de)  
BRIDLEEINHEIT

Title (fr)  
UNITE BRIDE

Publication  
**EP 1417049 A1 20040512 (DE)**

Application  
**EP 02747368 A 20020611**

Priority  
• DE 10130969 A 20010627  
• EP 0206354 W 20020611

Abstract (en)  
[origin: WO03002278A1] The aim of the invention is to provide a bridle unit (2), which does not necessitate a lengthening of the distance between the rolling nip (9) and the unwinding of the strip, even if a coloration of the strip (4) is required. To achieve this, the invention provides a bridle unit that is allocated to a rolling stand (1), said unit comprising several rolls that are fixed below the course of the strip and several rolls that are adjustably positioned above the course of the strip, which can be displaced from an initial position towards the strip (4) and from said strip back into the initial position by means of a drive. The roll (11) that lies the closest to the rolling nip (9) of the rolling stand (1) can be displaced from an initial position (12, 13) above and/or below the course of the strip towards the strip and from said strip back into each initial position by means of an additional drive (18).

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)

Citation (search report)  
See references of WO 03002278A1

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