Title (en)

DEVICE FOR DRAWING IN PAPER WEBS

Title (de)

VORRICHTUNG ZUM EINZIEHEN VON PAPIERBAHNEN

Title (fr)

DISPOSITIF D'INTRODUCTION POUR BANDES DE PAPIER

Publication

EP 1163179 A1 20011219 (DE)

Application

EP 00922439 A 20000318

Priority

- DE 0000849 W 20000318
- DE 19912290 A 19990319
- DE 19950942 A 19991022

Abstract (en)

[origin: WO0056646A1] The invention relates to a device for drawing in at least one paper web (05, 06, 07, 137, 138, 139, 142) into a roll rotary printing press (18, 26, 27). A draw-in member (33, 34, 87, 124) is provided with permanently fixed pointed bars (35) which can be moved in such a way that said pointed bars (35) penetrate the paper web exclusively during drawing-in.

IPC 1-7 (main, further and additional classification)

B65H 20/20; B41F 13/03; B65H 23/30

IPC 8 full level (invention and additional information)

B41F 13/03 (2006.01); **B65H 20/20** (2006.01); **B65H 23/30** (2006.01); **B65H 27/00** (2006.01); **B65H 37/04** (2006.01); **B65H 37/06** (2006.01); **B65H 39/16** (2006.01); **B65H 45/09** (2006.01); **B65H 45/22** (2006.01)

CPC (invention and additional information)

B65H 45/223 (2013.01); **B41F 13/03** (2013.01); **B65H 20/20** (2013.01); **B65H 23/30** (2013.01); **B65H 27/00** (2013.01); **B65H 39/16** (2013.01); **B65H 45/09** (2013.01); **B65H 45/221** (2013.01); B65H 2301/4148 (2013.01); B65H 2301/441 (2013.01); B65H 2301/5132 (2013.01); B65H 2301/522 (2013.01); B65H 2404/1114 (2013.01); B65H 2404/114 (2013.01); B65H 2404/121 (2013.01); B65H 2404/1316 (2013.01); B65H 2404/1532 (2013.01); B65H 2404/154 (2013.01); B65H 2515/50 (2013.01); B65H 2801/21 (2013.01); Y10T 156/1008 (2013.01); Y10T 156/1015 (2013.01); Y10T 156/1044 (2013.01); Y10T 156/1049 (2013.01); Y10T 156/1051 (2013.01)

Citation (search report)

See references of WO 0056646A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

EPO simple patent family

WO 0056646 A1 20000928; DE 50001967 D1 20030605; DE 50001971 D1 20030605; DE 50005258 D1 20040318; DE 50007814 D1 20041021; DE 50012791 D1 20060622; EP 1163179 A1 20011219; EP 1163179 B1 20030502; EP 1165421 A1 20020102; EP 1165421 B1 20030502; EP 1169252 A1 20020109; EP 1169252 B1 20040211; EP 1242300 A2 20020925; EP 1242300 B1 20040915; JP 2002540033 A 20021126; JP 2002540035 A 20021126; JP 3470803 B2 20031125; JP 3548719 B2 20040728; US 2004149799 A1 20040805; US 2005192172 A1 20050901; US 6705499 B1 20040316; US 6821240 B1 20041123; US 6929710 B1 20050816; US 7066368 B1 20060627; WO 0056650 A2 20000928; WO 0056650 A3 20001130; WO 0056651 A1 20000928; WO 0056652 A1 20000928

INPADOC legal status

2011-03-31 [PG25 IT] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO

- Ref Country Code : IT
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20090318

2010-04-30 [PG25 FR] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO

- Ref Country Code : FR
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20091123

2010-04-30 [PG25 GB] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO

- Ref Country Code : GB
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20090318

2010-01-29 [PG25 CH] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO

- Ref Country Code : CH
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20090331

2010-01-29 [PG25 DE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO

- Ref Country Code : DE

- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20091001

2010-01-29 [PG25 LI] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : LI
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20090331

2009-12-25 [REG FR ST] NOTIFICATION OF LAPSE
- Effective date : 20091130

2009-11-25 [GBPC] GB: EUROPEAN PATENT CEASED THROUGH NON-PAYMENT OF RENEWAL FEE
- Effective date : 20090318

2009-10-30 [REG CH PL] PATENT CEASED

2008-11-28 [PGFP FR] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : FR
- Payment date : 20080319
- Year of fee payment : 9

2008-07-31 [PGFP DE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : DE
- Payment date : 20080311
- Year of fee payment : 9

2008-05-30 [PGFP GB] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : GB
- Payment date : 20080326
- Year of fee payment : 9

2008-05-30 [PGFP IT] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : IT
- Payment date : 20080319
- Year of fee payment : 9

2008-04-30 [PGFP CH] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : CH
- Payment date : 20080328
- Year of fee payment : 9

2004-04-21 [26N] NO OPPOSITION FILED
- Effective date : 20040203

2003-12-31 [REG IE FD4D] EUROPEAN PATENTS DESIGNATING IRELAND TREATED AS ALWAYS HAVING BEEN VOID
- Document : IE 1163179E

2003-10-31 [ET] FR: TRANSLATION FILED

2003-06-11 [REG IE FG4D] EUROPEAN PATENTS GRANTED DESIGNATING IRELAND
- Free text : GERMAN

2003-06-05 [REF] CORRESPONDS TO:
- Document : DE 50001967 P 20030605

2003-05-28 [GBT] GB: TRANSLATION OF EP PATENT FILED (GB SECTION 77(6)(A)/1977)
- Effective date : 20030502

2003-05-15 [REG CH EP] ENTRY IN THE NATIONAL PHASE

2003-05-07 [REG GB FG4D] EUROPEAN PATENT GRANTED
- Free text : NOT ENGLISH

2003-05-02 [AK] DESIGNATED CONTRACTING STATES:
- Designated State(s) : CH DE FR GB IT LI

2001-12-19 [17P] REQUEST FOR EXAMINATION FILED
- Effective date : 20011019

2001-12-19 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A1
- Designated State(s) : AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE