Title (en)

DEVICE FOR CHANGING THE REEL IN AN UNWINDER

Title (de)

VORRICHTUNG ZUM WECHSELN DER ROLLE IN EINER ABWICKELVORRICHTUNG

Title (fr)

DISPOSITIF POUR CHANGER LA BOBINE D'UNE DEROULEAUSE

Publication

EP 1838603 A2 20071003 (EN)

Application

EP 05813637 A 20051103

Priority

- IT 2005000630 W 20051103
- IT FI20050010 A 20050118

Abstract (en)

[origin: WO2006077609A2] To obtain the automatic change of the reel in an unwinder, in particular for reels of paper and other materials in web form, operation in which a reel (2) that is nearly empty is replaced with a new reel (2'), wherein provision is made to connect a tail portion (LC) of the web of the nearly empty reel (2) to the head portion (LT) of the web of the new reel (2') after overlapping of said ends (LC) and (LT), said overlap step begins along the surface of the new reel 2', right next to the latter.

IPC 8 full level (invention and additional information)

B65H 19/18 (2006.01); **B65H 16/06** (2006.01); **B65H 19/12** (2006.01)

CPC (invention and additional information)

B65H 19/1836 (2013.01); **B65H 16/06** (2013.01); **B65H 19/12** (2013.01); B65H 2301/41361 (2013.01)

Citation (search report)

See references of WO 2006077609A3

Designated contracting state (EPC)

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

EPO simple patent family

WO 2006077609 A2 20060727; WO 2006077609 A3 20060914; AT 507176 T 20110515; BR PI0518474 A2 20081118; CN 101065305 A 20071031; CN 101613041 A 20091230; CN 101613041 B 20111228; DE 602005027750 D1 20110609; EP 1838603 A2 20071003; EP 1838603 B1 20110427; EP 2090533 A1 20090819; ES 2364343 T3 20110831; IT FI20050010 A1 20060719; JP 2008526655 A 20080724; JP 4700067 B2 20110615; RU 2007131449 A 20090227; RU 2380306 C2 20100127; US 2009114757 A1 20090507

INPADOC legal status

2018-04-30 [PGFP DE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : DE
- Payment date : 20180126
- Year of fee payment : 13

2018-02-28 [PGFP IT] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : IT
- Payment date : 20171011
- Year of fee payment : 13

2018-02-28 [PGFP SE] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : SE
- Payment date : 20171120
- Year of fee payment : 13

2018-02-28 [PGFP GB] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : GB
- Payment date : 20171123
- Year of fee payment : 13

2018-02-28 [PGFP ES] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : ES
- Payment date : 20171220
- Year of fee payment : 13

2018-01-31 [PGFP TR] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : TR
- Payment date : 20171101
- Year of fee payment : 13

2018-01-31 [PGFP FR] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : FR
- Payment date : 20171121
- Year of fee payment : 13

2018-01-31 [PGFP FI] POSTGRANT: ANNUAL FEES PAID TO NATIONAL OFFICE
- Ref Country Code : FI
- Payment date : 20171121
- Year of fee payment : 13

2017-11-21 [REG FR PLFP] FEE PAYMENT
- Year of fee payment : 13

2016-11-18 [REG FR PLFP] FEE PAYMENT
- Year of fee payment : 12

2015-11-19 [REG FR PLFP] FEE PAYMENT
- Year of fee payment : 11

2013-10-31 [PG25 HU] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : HU
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110427

2013-06-28 [PG25 BG] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : BG
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110727

2013-05-31 [PG25 LU] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : LU
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20111103

2012-10-31 [PG25 IE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : IE
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20111103

2012-08-29 [REG IE MM4A] PATENT LAPSED

2012-07-31 [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 : 20111130

2012-07-31 [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 : 20111130

2012-06-29 [PG25 MC] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : MC
- Free text : LAPSE BECAUSE OF NON-PAYMENT OF DUE FEES
- Effective date : 20111130

2012-06-29 [REG CH PL] PATENT CEASED

2012-05-24 [REG DE R097] NO OPPOSITION FILED AGAINST GRANTED PATENT, OR EPO OPPOSITION PROCEEDINGS CONCLUDED WITHOUT DECISION
- Document : DE 602005027750
- Effective date : 20120130

2012-04-04 [26N] NO OPPOSITION FILED
- Effective date : 20120130

2012-02-29 [PG25 RO] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : RO
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT

- Effective date : 20110427

2012-02-29 [PG25 SK] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : SK
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110427

2012-02-29 [PG25 PL] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : PL
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110427

2012-02-29 [PG25 DK] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : DK
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110427

2012-01-31 [PG25 EE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : EE
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110427

2012-01-31 [PG25 CZ] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : CZ
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110427

2011-12-30 [PG25 NL] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : NL
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110427

2011-11-30 [PG25 BE] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : BE
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110427

2011-11-30 [PG25 LV] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : LV
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110427

2011-11-30 [PG25 AT] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : AT
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110427

2011-11-30 [PG25 IS] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : IS
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110827

2011-11-30 [PG25 CY] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : CY

- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110427

2011-11-30 [PG25 SI] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : SI
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110427

2011-11-30 [PG25 GR] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : GR
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110728

2011-10-31 [PG25 LT] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : LT
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110427

2011-10-31 [PG25 PT] LAPSED IN A CONTRACTING STATE ANNOUNCED VIA POSTGRANT INFORM. FROM NAT. OFFICE TO EPO
- Ref Country Code : PT
- Free text : LAPSE BECAUSE OF FAILURE TO SUBMIT A TRANSLATION OF THE DESCRIPTION OR TO PAY THE FEE WITHIN THE PRESCRIBED TIME-LIMIT
- Effective date : 20110829

2011-09-26 [LTIE] LT: INVALIDATION OF EUROPEAN PATENT OR PATENT EXTENSION
- Effective date : 20110427

2011-08-31 [REG ES FG2A] DEFINITIVE PROTECTION
- Document : ES 2364343 T3
- Effective date : 20110831

2011-08-10 [REG NL VDEP] INVALID IN THE NETHERLANDS AS NO TRANSLATION HAS BEEN FILED
- Effective date : 20110427

2011-07-12 [REG SE TRGR] TRANSLATION OF GRANTED EP PATENT

2011-06-09 [REG DE R096] DPMA PUBLICATION OF MENTIONED EP PATENT GRANT
- Document : DE 602005027750
- Effective date : 20110609

2011-06-09 [REF] CORRESPONDS TO:
- Document : DE 602005027750 P 20110609

2011-05-25 [REG IE FG4D] EUROPEAN PATENTS GRANTED DESIGNATING IRELAND

2011-04-29 [REG CH EP] ENTRY IN THE NATIONAL PHASE

2011-04-27 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : B1
- Designated State(s) : AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

2011-04-27 [REG GB FG4D] EUROPEAN PATENT GRANTED

2010-10-20 [RTI1] TITLE (CORRECTION)
- Free text : DEVICE FOR CHANGING THE REEL IN AN UNWINDER

2008-04-23 [DAX] REQUEST FOR EXTENSION OF THE EUROPEAN PATENT (TO ANY COUNTRY) (DELETED)

2007-12-12 [17Q] FIRST EXAMINATION REPORT
- Effective date : 20071113

2007-10-03 [17P] REQUEST FOR EXAMINATION FILED
- Effective date : 20070627

2007-10-03 [AK] DESIGNATED CONTRACTING STATES:
- Kind Code of Ref Document : A2

- Designated State(s) : AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR