



- (51) **International Patent Classification:**
B65H 19/26 (2006.01) *B65H 19/22* (2006.01)
- (21) **International Application Number:**
PCT/IT2013/000190
- (22) **International Filing Date:**
8 July 2013 (08.07.2013)
- (25) **Filing Language:** Italian
- (26) **Publication Language:** English
- (30) **Priority Data:**
FI2012A000142 11 July 2012 (11.07.2012) IT
- (71) **Applicant:** UNITED CONVERTING S.R.L. [IT/IT]; Via Di Coreglia 9, I-55025 Piano Di Coreglia, Coreglia Antelminelli - Lucca (IT).
- (72) **Inventors:** LUPI, Giuseppe; Via Roma 65, I-55027 Galliciano - Lucca (IT). TORRI, Angelo; Via 4 Novembre 12, I-55027 Galliciano - Lucca (IT). GIOMETTI, Gianluca; Via Di Carraia 83/A, I-55012 Capannori, Loc. Parezzana - Lucca (IT).
- (74) **Agent:** NESTI, Antonio; Studio Ferrario S.R.L., Via Del Giglio 6, I-50123 Firenze (IT).
- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,

DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

- (84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

- (88) **Date of publication of the international search report:**
13 March 2014

(54) **Title:** REWINDING MACHINE

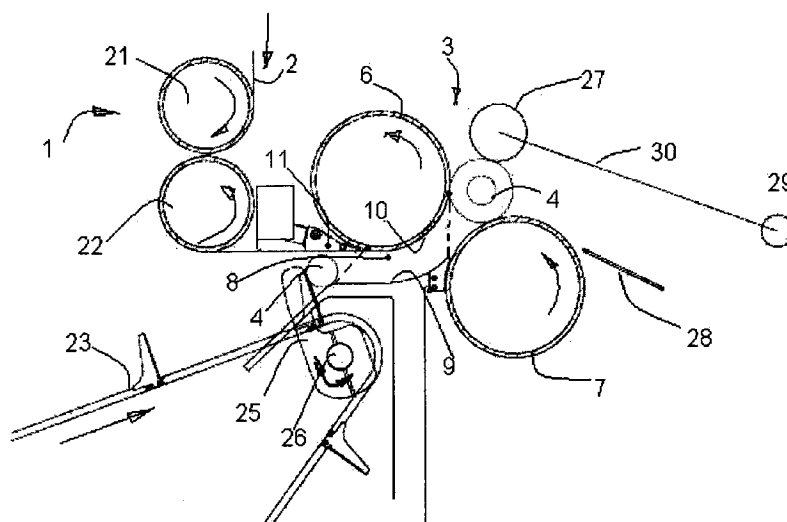


FIG.1

(57) **Abstract:** A rewinding machine comprising a drawing assembly (01), a winding assembly, a core-change assembly (05), and pneumatic means for interrupting the continuity of the ply at the end of a winding cycle, and for starting a new winding cycle.

INTERNATIONAL SEARCH REPORT

International application No

PCT/IT2013/000190

A. CLASSIFICATION OF SUBJECT MATTER

INV. B65H19/26 B65H19/22
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
B65H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2012/153068 A1 (PERINI FABIO [IT]) 21 June 2012 (2012-06-21)	10
A	the whole document	1-9
A	EP 2 202 187 A1 (GAMBINI INT SA [LU]) 30 June 2010 (2010-06-30)	1,10
A	US 2009/302146 A1 (MORELLI ROBERTO [IT] ET AL) 10 December 2009 (2009-12-10) paragraph [0084] - paragraph [0087]; figures	1,10
A	WO 2011/117827 A1 (STUDIO DUEBI S A S [IT]; BERTOLI BARSOTTI GIOVANNI [IT]) 29 September 2011 (2011-09-29) page 12, line 27 - page 13, line 4 page 14, line 28 - page 15, line 21; figures	1,10



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

18 December 2013

Date of mailing of the international search report

23/01/2014

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Haaken, Willy

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IT2013/000190

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2012153068	A1	21-06-2012	AT 481341 T 15-10-2010
			AT 481342 T 15-10-2010
			BR PI0409384 A 18-04-2006
			CN 1867505 A 22-11-2006
			DE 602004004257 T2 15-11-2007
			EP 1618057 A2 25-01-2006
			EP 1700805 A2 13-09-2006
			EP 1700806 A2 13-09-2006
			ES 2279357 T3 16-08-2007
			ES 2350166 T3 19-01-2011
			ES 2350700 T3 26-01-2011
			IL 170562 A 03-08-2009
			JP 4500804 B2 14-07-2010
			JP 2006524620 A 02-11-2006
			RU 2314247 C2 10-01-2008
			US 2006169733 A1 03-08-2006
			US 2009039195 A1 12-02-2009
			US 2010043613 A1 25-02-2010
			US 2011168750 A1 14-07-2011
			US 2012153068 A1 21-06-2012
			WO 2004096684 A2 11-11-2004
EP 2202187	A1	30-06-2010	EP 2202187 A1 30-06-2010
			US 2010163666 A1 01-07-2010
US 2009302146	A1	10-12-2009	BR PI0611168 A2 17-08-2010
			CA 2608969 A1 30-11-2006
			EP 1888442 A2 20-02-2008
			JP 2008542151 A 27-11-2008
			KR 20080033170 A 16-04-2008
			US 2009302146 A1 10-12-2009
			WO 2006126228 A2 30-11-2006
WO 2011117827	A1	29-09-2011	EP 2550218 A1 30-01-2013
			WO 2011117827 A1 29-09-2011