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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/833,091	03/17/2020	10589957	111429.00339	1883
27557	7590	02/26/2020		
BLANK ROME LLP 1825 Eye Street NW WASHINGTON, DC 20006-5403				

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Rakesh Thakare, Durham, NC;
Amphenol Corporation, Wallingford, CT;
Caichun Song, Changzhou, CHINA;
Phillip S. Bowen, Chatham, VA;
Marvin Bryant, Chatham, VA;
Paul R. Boucher, Callands, VA;
Barry Holt, Ottawa, CANADA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

IR103 (Rev. 10/09)



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NOTICE OF ALLOWANCE AND FEE(S) DUE

27557 7590 01/29/2020
BLANK ROME LLP
1825 Eye Street NW
WASHINGTON, DC 20006-5403

EXAMINER
DONDERO, WILLIAM E

ART UNIT PAPER NUMBER

3654

DATE MAILED: 01/29/2020

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/833,091	12/06/2017	Rakesh Thakare	111429.00339	1883

TITLE OF INVENTION: METHOD OF INSTALLING CABLE ON CABLE REEL

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	04/29/2020

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

27557 7590 01/29/2020

BLANK ROME LLP
1825 Eye Street NW
WASHINGTON, DC 20006-5403

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/833,091	12/06/2017	Rakesh Thakare	111429.00339	1883

TITLE OF INVENTION: METHOD OF INSTALLING CABLE ON CABLE REEL

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1000	\$0.00	\$0.00	\$1000	04/29/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
DONDERO, WILLIAM E	3654	242-609000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



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15/833,091	12/06/2017	Rakesh Thakare	111429.00339	1883
27557	7590	01/29/2020	EXAMINER	
BLANK ROME LLP 1825 Eye Street NW WASHINGTON, DC 20006-5403			DONDERO, WILLIAM E	
			ART UNIT	PAPER NUMBER
			3654	
DATE MAILED: 01/29/2020				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.** Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 15/833,091	Applicant(s) Thakare et al.	
	Examiner WILLIAM E DONDERO	Art Unit 3654	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE filed 9 January 2020.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-8 and 17-27. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some *c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. <input type="checkbox"/> Notice of References Cited (PTO-892)	5. <input checked="" type="checkbox"/> Examiner's Amendment/Comment
2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.	6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance
3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. <input type="checkbox"/> Other _____.
4. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____.	

/WILLIAM E DONDERO/ Primary Examiner, Art Unit 3654	
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Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 9, 2020 has been entered.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in an interview with Tara L. Marcus on January 22, 2020.

The application has been amended as follows:

In The Claims:

- In Claim 19, Line 1, the phrase, --claim 18-- , has replaced the phrase, "claim 17".
- In Claim 23, Line 1, the phrase, --claim 18-- , has replaced the phrase, "claim 17".
- Claims 28-35 have been cancelled.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance: the prior art of record, when taken as a whole, does not disclose or suggest the combination of Claim 17, including a method of installing a cable reel in a bag, comprising the steps of securing a first support frame to a base of a bag; and securing a second support frame to a cover of the bag in conjunction with the rest of the limitations of Claim 17.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIAM E DONDERO whose telephone number is (571)272-5590. The examiner can normally be reached on Monday-Friday 6 am - 4 pm ET, Alternate Fridays.


Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael R Mansen can be reached on 571-272-6608. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <https://ppair->


my.uspto.gov/pair/PrivatePair. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/WILLIAM E DONDERO/
Primary Examiner, Art Unit 3654

<i>Index of Claims</i> 	Application/Control No. 15/833,091	Applicant(s)/Patent Under Reexamination Thakare et al.
	Examiner WILLIAM E DONDERO	Art Unit 3654

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected


CLAIMS										
<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input checked="" type="checkbox"/> T.D. <input type="checkbox"/> R.1.47										
CLAIM		DATE								
Final	Original	05/09/2019	11/26/2019	01/22/2020						
1	1	✓	=	=						
2	2	✓	=	=						
3	3	✓	=	=						
4	4	✓	=	=						
5	5	✓	=	=						
6	6	✓	=	=						
7	7	✓	=	=						
8	8	✓	=	=						
	9	✓	-	-						
	10	✓	-	-						
	11	✓	-	-						
	12	✓	-	-						
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	14	✓	-	-						
	15	✓	-	-						
	16	✓	-	-						
9	17		✓	=						
10	18		✓	=						
11	19		✓	=						
17	20		✓	=						
18	21		✓	=						
19	22		✓	=						
12	23		✓	=						
13	24			=						
14	25			=						
15	26			=						
16	27			=						
	28			-						
	29			-						
	30			-						
	31			-						
	32			-						
	33			-						
	34			-						
	35			-						

Issue Classification 	Application/Control No. 15/833,091	Applicant(s)/Patent Under Reexamination Thakare et al.
	Examiner WILLIAM E DONDERO	Art Unit 3654

CPC						
Symbol					Type	Version
B65H	/	75	/	30	F	2013-01-01
B65H	/	75	/	22	I	2013-01-01
B65H	/	75	/	14	I	2013-01-01
B65H	/	49	/	205	I	2013-01-01
B65H	/	75	/	245	I	2013-01-01
B65H	/	49	/	322	I	2013-01-01
B65H	/	49	/	305	I	2013-01-01
B65H	/	59	/	04	I	2013-01-01
B65H	/	75	/	242	I	2013-01-01
B65H	/	49	/	325	I	2013-01-01

CPC Combination Sets					
Symbol			Type	Set	Ranking
	/				

NONE (Assistant Examiner)		Total Claims Allowed: 19	
/WILLIAM E DONDERO/ Primary Examiner, Art Unit 3654 (Primary Examiner)		22 January 2020 (Date)	O.G. Print Claim(s) 1,9
			O.G. Print Figure 1,4B

Issue Classification 	Application/Control No. 15/833,091	Applicant(s)/Patent Under Reexamination Thakare et al.
	Examiner WILLIAM E DONDERO	Art Unit 3654

INTERNATIONAL CLASSIFICATION				
CLAIMED				
B65H75/22	/	75	/	22
B65H75/14	/	75	/	14
B65H49/20	/	49	/	20
B65H75/24	/	75	/	24
B65H49/32	/	49	/	32
B65H49/30	/	49	/	30

NON-CLAIMED				
B65H75/30	/	75	/	30
B65H59/04	/	59	/	04


US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	19	
/WILLIAM E DONDERO/ Primary Examiner, Art Unit 3654	22 January 2020	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1,9	1,4B


U.S. Patent and Trademark Office

Part of Paper No.: 20200122

Issue Classification 	Application/Control No. 15/833,091	Applicant(s)/Patent Under Reexamination Thakare et al.
	Examiner WILLIAM E DONDERO	Art Unit 3654

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input checked="" type="checkbox"/> T.D. <input type="checkbox"/> R.1.47															
CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1		10	11	19		28								
2	2		11	17	20		29								
3	3		12	18	21		30								
4	4		13	19	22		31								
5	5		14	12	23		32								
6	6		15	13	24		33								
7	7		16	14	25		34								
8	8	9	17	15	26		35								
	9	10	18	16	27										

NONE (Assistant Examiner) (Date)		Total Claims Allowed: 19	
/WILLIAM E DONDERO/ Primary Examiner, Art Unit 3654 (Primary Examiner) (Date)		22 January 2020 (Date)	O.G. Print Claim(s) 1,9
			O.G. Print Figure 1,4B

<i>Search Notes</i> 	Application/Control No. 15/833,091	Applicant(s)/Patent Under Reexamination Thakare et al.
	Examiner WILLIAM E DONDERO	Art Unit 3654

CPC - Searched*		
Symbol	Date	Examiner
B65H 54/103,12	05/09/2019	/WED/
B65H 75/14,22,24,245	05/09/2019	/WED/


CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
EAST Text Search - see attached printout	05/09/2019	/WED/
Inventor Name Search	05/09/2019	/WED/
Applicant/Assignee Search	05/09/2019	/WED/
Updated Search for parent applications 15/433,789 and 14/634,007	05/09/2019	/WED/
Above Updated	11/26/2019	/WED/
Above Updated	01/22/2020	/WED/

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<i>Search Notes</i> 	Application/Control No. 15/833,091	Applicant(s)/Patent Under Reexamination Thakare et al.
	Examiner WILLIAM E DONDERO	Art Unit 3654

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
All Above		01/22/2020	/WED/
Entire Database	Text Search - see attached printout	01/22/2020	/WED/

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EAST Search History**EAST Search History (Prior Art)**

< This search history is empty >

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	22	((("THAKARE") near3 ("RAKESH")).INV.	US-PGPUB; USPAT	OR	ON	2020/01/22 14:08
L2	27	((("SONG") near3 ("Caichun")).INV.	US-PGPUB; USPAT	OR	ON	2020/01/22 14:09
L3	23	((("BOWEN") near3 ("Phillip")).INV.	US-PGPUB; USPAT	OR	ON	2020/01/22 14:09
L4	16	((("BRYANT") near3 ("Marvin")).INV.	US-PGPUB; USPAT	OR	ON	2020/01/22 14:09
L5	42	((("BOUCHER") near3 ("Paul")).INV.	US-PGPUB; USPAT	OR	ON	2020/01/22 14:09
L6	9	((("HOLT") near3 ("Barry")).INV.	US-PGPUB; USPAT	OR	ON	2020/01/22 14:10
L7	38	B65H54/103.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/22 14:10
L8	43	B65H54/12.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/22 14:10
L9	1479	B65H75/14.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/22 14:10
L10	722	B65H75/22.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/22 14:11
L11	206	B65H75/24.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/22 14:11
L12	163	B65H75/245.cpc.	US-PGPUB; USPAT	OR	ON	2020/01/22 14:11
L13	8	((reel or spool or bobbin or quill or pirn) with hub with (flexible near segment)).clm.	US-PGPUB; USPAT	OR	ON	2020/01/22 14:12
L14	4	((reel or spool or bobbin or quill or pirn) with bag with ((support or frame) near3 (secur\$3 or attach\$3))).clm.	US-PGPUB; USPAT	OR	ON	2020/01/22 14:14

1/ 22/ 2020 2:17:37 PM

C:\Users\wdontero\Documents\EAST\Workspaces\15833091.wsp

PART B-FEE(S) TRANSMITTAL

Complete and send this form, together with the applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

By fax, send to: (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

27557
BLANK ROME LLP
1825 Eye Street, NW
Washington, DC 20006-5403

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
15/833,091	12/06/2017	Rakesh Thakare	111429.00339	1883

TITLE OF INVENTION: METHOD OF INSTALLING CABLE ON CABLE REEL

APPLN: TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	\$1,000.00			\$1,000.00	04/29/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
W. E. Dondero	3654	

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363)

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. Blank Rome LLP

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

Amphenol Corporation

(B) RESIDENCE: (CITY and STATE or COUNTRY)

Wallingford, Connecticut

Please check the appropriate assignee category or categories (will not be printed on the patent):

☐ Individual ☒ Corporation or other private group entity ☐ Government4a. Fees Submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment (Please first reapply any previously paid fee shown above):

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 23-2185

5. Change of Entity Status (from status indicated above)

- ☐ Applicant certifying micro entity status. See 37 CFR 1.29.
☐ Applicant asserting small entity status. See 37 CFR 1.27.
☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid Certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken as a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken as a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature

/Tara L. Marcus/

Date January 29, 2020

Typed or printed name

Tara L. Marcus

Registration No.

46,510

PTOL-85 Part B (08-18) Approved for use through 01/31/2020

OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

111429.00339/122540080v.1

Electronic Patent Application Fee Transmittal				
Application Number:		15833091		
Filing Date:		06-Dec-2017		
Title of Invention:		METHOD OF INSTALLING CABLE ON CABLE REEL		
First Named Inventor/Applicant Name:		Rakesh Thakare		
Filer:		Tara Lynette Laster Hoffman/Cheryl de Lopez		
Attorney Docket Number:		111429.00339		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1000

Electronic Acknowledgement Receipt	
EFS ID:	38432585
Application Number:	15833091
International Application Number:	
Confirmation Number:	1883
Title of Invention:	METHOD OF INSTALLING CABLE ON CABLE REEL
First Named Inventor/Applicant Name:	Rakesh Thakare
Customer Number:	27557
Filer:	Tara Lynette Laster Hoffman/Cheryl de Lopez
Filer Authorized By:	Tara Lynette Laster Hoffman
Attorney Docket Number:	111429.00339
Receipt Date:	29-JAN-2020
Filing Date:	06-DEC-2017
Time Stamp:	14:14:57
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$1000
RAM confirmation Number	E20201SE15124749
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	issuefee339.pdf	145933	no	1
			cf736af35606fa91c2d0f82fa383f31d302241a8		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30589	no	2
			0d8c84ea139e1c0c57820e993ed7cffe983cb7ca		
Warnings:					
Information:					
Total Files Size (in bytes):			176522		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Request for Continued Examination (RCE) Transmittal Address to: Mail Stop RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	Application Number	15/833,091-Conf. #1883
	Filing Date	December 6, 2017
	First Named Inventor	Rakesh Thakare
	Art Unit	3654
	Examiner Name	W. E. Dondero
	Attorney Docket Number	111429.00339

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application.

Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 CFR 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).

a. ☐ Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.

i. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on _____

ii. ☐ Other _____

b. ☒ Enclosed

i. ☒ Amendment/Reply

ii. ☐ Affidavit(s)/ Declaration(s)

iii. ☐ Information Disclosure Statement (IDS)

iv. ☐ Other _____

2. **Miscellaneous**

a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of _____ months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)

b. ☐ Other _____

3. **Fees** The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.

a. ☒ The Director is hereby authorized to charge the following fees, any underpayment of fees, or credit any overpayments, to Deposit Account No. 23-2185.

i. ☒ RCE fee required under 37 CFR 1.17(e)

ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17)

iii. ☐ Other _____

b. ☐ Check in the amount of \$ _____ enclosed

c. ☐ Payment by credit card (Form PTO-2038 enclosed)

d. ☒ Payment by EFS-Web

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Signature	/Tara L. Marcus/	Date	January 9, 2020
Name (Print/Type)	Tara L. Marcus	Registration No.	46,510

111429.00339/122458634v.1

<h1 style="margin: 0;">FEE TRANSMITTAL</h1>		Complete if known	
		Application Number	15/833,091-Conf. #1883
		Filing Date	December 6, 2017
<input type="checkbox"/>	Applicant asserts small entity status. See 37 CFR 1.27.	First Named Inventor	Rakesh Thakare
<input type="checkbox"/>	Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.	Examiner Name	W. E. Dondero
		Art Unit	3654
TOTAL AMOUNT OF PAYMENT		(\$)	2,460.00
		Practitioner Docket No.	111429.00339

METHOD OF PAYMENT (check all that apply)

☐ Check
 ☐ Credit Card
 ☐ Money Order
 ☐ None
 ☒ Other (please identify): EFS

☐ Deposit Account
 Deposit Account Number: 23-2185
 Deposit Account Name: Blank Rome LLP

For the above-identified deposit account, the Director is hereby authorized to (check all that apply):

☐ Charge fee(s) indicated below
 ☐ Charge fee(s) indicated below, **except for the filing fee**
☒ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17
 ☒ Credit any overpayment of fee(s)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES (U = undiscounted fee; S = small entity fee; M = micro entity fee)

Application Type	FILING FEES			SEARCH FEES			EXAMINATION FEES			Fees Paid (\$)
	U (\$)	S (\$)	M (\$)	U (\$)	S (\$)	M (\$)	U (\$)	S (\$)	M (\$)	
Utility	300	150*	75	660	330	165	760	380	190	
Design	200	100	50	160	80	40	600	300	150	
Plant	200	100	50	420	210	105	620	310	155	
Reissue	300	150	75	660	330	165	2,200	1,100	550	
Provisional	280	140	70	0	0	0	0	0	0	

* The \$150 small entity status filing fee for a utility application is further reduced to \$75 for a small entity status applicant who files the application via EFS-Web.

2. EXCESS CLAIM FEES

Fee Description	Undiscounted Fee (\$)	Small Entity Fee (\$)	Micro Entity Fee (\$)
Each claim over 20 (including Reissues)	100	50	25
Each independent claim over 3 (including Reissues)	460	230	115
Multiple dependent claims	820	410	205

Total Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**
27 - 20 or HP = 7 x 100.00 = 700.00

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**
4 - 3 or HP = 1 x 460.00 = 460.00

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$400 (\$200 for small entity) (\$100 for micro entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets **Extra Sheets** **Number of each additional 50 or fraction thereof** **Fee (\$)** **Fee Paid (\$)**
 - 100 = / 50 = (round up to a whole number) x =

4. OTHER FEE(S)

Non-English specification, \$130 fee (no small or micro entity discount)

Non-electronic filing fee under 37 CFR 1.16(t) for a utility application, \$400 fee (\$200 small or micro entity)

Other (e.g., late filing surcharge): 1801 Request for continued examination (RCE) - 1st ... 1,300.00

SUBMITTED BY

Signature	/Tara L. Marcus/	Registration No. (Attorney/Agent)	46,510	Telephone	(202) 772-5957
Name (Print/Type)	Tara L. Marcus	Date	January 9, 2020		

111429.00339/122458690v.1

Electronic Patent Application Fee Transmittal				
Application Number:		15833091		
Filing Date:		06-Dec-2017		
Title of Invention:		METHOD OF INSTALLING CABLE ON CABLE REEL		
First Named Inventor/Applicant Name:		Rakesh Thakare		
Filer:		Tara Lynette Laster Hoffman/Cheryl de Lopez		
Attorney Docket Number:		111429.00339		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	1202	7	100	700
INDEPENDENT CLAIMS IN EXCESS OF 3	1201	1	460	460
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
RCE- 1ST REQUEST	1801	1	1300	1300
Total in USD (\$)				2460

Electronic Acknowledgement Receipt	
EFS ID:	38247958
Application Number:	15833091
International Application Number:	
Confirmation Number:	1883
Title of Invention:	METHOD OF INSTALLING CABLE ON CABLE REEL
First Named Inventor/Applicant Name:	Rakesh Thakare
Customer Number:	27557
Filer:	Tara Lynette Laster Hoffman/Cheryl de Lopez
Filer Authorized By:	Tara Lynette Laster Hoffman
Attorney Docket Number:	111429.00339
Receipt Date:	09-JAN-2020
Filing Date:	06-DEC-2017
Time Stamp:	12:00:42
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$2460
RAM confirmation Number	E202019C00557710
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		rceamend0339.pdf	1528452	yes	19
			9b37cca2c4ca592e51fc1f9db43308e4068700e7		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Drawings-only black and white line drawings		19	19	
	Applicant Arguments/Remarks Made in an Amendment		12	18	
	Drawings-only black and white line drawings		11	11	
	Claims		5	10	
	Specification		4	4	
	Amendment Submitted/Entered with Filing of CPA/RCE		3	3	
	Request for Continued Examination (RCE)		2	2	
	Fee Worksheet (SB06)		1	1	
	Warnings:				
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	34019	no	2
			eabcbf30efe1eae0b027528799412b349d47717c		
Warnings:					
Information:					
Total Files Size (in bytes):			1562471		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

REPLACEMENT SHEET

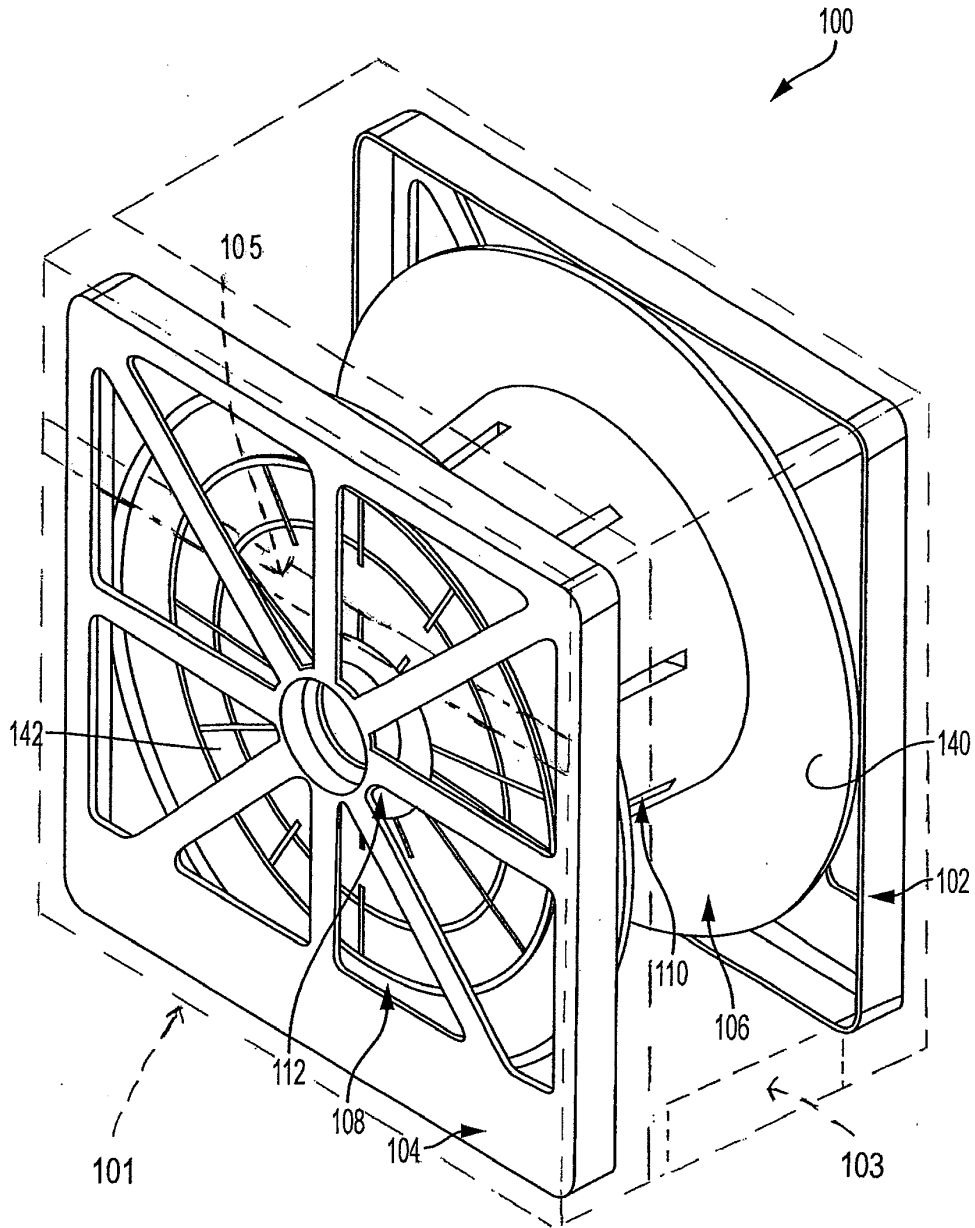


FIG. 1

AMENDMENTS TO THE CLAIMS

1. (Original) A method of installing cable on a cable reel, comprising the steps of:

providing a cable reel that includes first and second opposing flanges, the first flange having a first hub portion and the second flange having a second hub portion, the first hub portion having one or more flexible segments;

placing a cable coil over the first hub portion and on the first flange so that the first hub portion substantially extends through an inner diameter of the cable coil; and

expanding the one or more flexible segments by inserting the second hub portion inside of the first hub portion so that the one or more flexible segments engage the cable coil.

2. (Original) A method according to claim 1, further comprising the step of

prepacking the cable coil prior to the step of placing the cable coil over the first hub portion.

3. (Original) A method according to claim 2, wherein

the cable coil is prepacked by applying a shrink wrap or ties to the cable coil.

4. (Original) A method according to claim 1, further comprising the step of

securing the first and second hub portions together after the step of inserting the second hub portion inside of the first hub portion.

5. (Original) A method according to claim 4, wherein

the first and second hub portions are secured together by a snapping engagement.

6. (Original) A method according to claim 1, further comprising the steps of:
providing first and second support frames; and
rotatably coupling the first and second flanges to the first and second support frames,
respectively.
7. (Original) A method according to claim 6, wherein
the first and second flanges have a substantially disc shape; and
the first and second frames have a substantially square shape.
8. (Original) A method according to claim 1, wherein
the step of inserting the second hub portion into the first hub portion includes inserting a
truncated wall into a receiving area of an elongated wall of the first hub portion.
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Cancelled)
15. (Cancelled)
16. (Cancelled)

17. (Previously Presented) A method of installing a cable reel in a bag, comprising the steps of:

securing a first support frame to a base of a bag;

securing a second support frame to a cover of the bag;

placing a first flange on the first support frame, wherein the first flange includes a first hub portion;

placing a second flange on the second support frame, wherein the second flange includes a second hub portion, wherein either the first hub portion or the second hub portion includes an elongated annular wall having a receiving area and the other of the first hub portion and the second hub portion includes a truncated annular wall receivable in the receiving area; and

placing at least a portion of the truncated annular wall within the receiving area of the elongated annular wall.

18. (Currently Amended) The method of claim 17, further comprising the step of placing a coil of cable on the elongated annular wall.

19. (Currently Amended) The method of claim 18, wherein the ~~cable~~-coil of cable is arranged on a side thereof in the bag.

20. (Currently Amended) The method of claim 17, further comprising the step of strapping the first support frame to the base of the bag and strapping the second support frame to the ~~flap~~-cover of the bag.

21. (Previously presented) The method of claim 17, wherein each of the first and second flanges has a central arbor opening.

22. (Previously presented) The method of claim 21, further comprising the step of fitting a middle support flange of each of the first and second supports frames into the central arbor opening of the first and second flanges, respectively.

23. (Currently Amended) The method of claim 17, further comprising the step of dispensing cable of the ~~eable~~-coil of cable through a payout opening in the bag.

24. (New) The method of claim 18, further comprising the step of removing the truncated annular wall from the elongated annular wall for replacement of the coil of cable with another coil of cable.

25. (New) The method of claim 18, wherein the coil of cable lacks a support reel prior to the step of placing the coil of cable on the elongated annular wall.

26. (New) The method of claim 18, wherein the step of placing the coil of cable on the elongated annular wall occurs before the step of placing the second flange to hold the coil of cable on the elongated annular wall and before the step of placing the second flange on the second support frame.

27. (New) The method of claim 18, wherein the step of placing at least a portion of the truncated annular wall within the receiving area of the elongated annular wall occurs after placing the coil of cable on the elongated annular wall.

28. (New) A method of installing a cable reel in a bag, comprising the steps of:

placing a coil of cable on a first hub of a first flange of the cable reel, wherein the coil of cable lacks a support reel prior to the step of placing the coil of cable on the first hub;

placing a second flange of the cable reel opposite from the first flange to hold the coil of cable on the first hub of the first flange;

positioning the first flange on a first support frame in the bag; and

placing the second flange on a second support frame, wherein the second support frame is positionable in the bag such that the first flange, the coil of cable and the second flange are located between the first support frame and the second support frame.

29. (New) The method of claim 28, wherein the first flange is separable from the second flange for replacement of the coil of cable coil with another coil of cable.

30. (New) The method of claim 28, wherein the step of placing the second flange of the cable reel opposite from the first flange to hold the coil of cable on the first hub of the first flange includes engaging a second hub of the second flange with the first hub.

31. (New) The method of claim 30, further comprising the step of disengaging the second hub from the first hub for replacement of the coil of cable with another coil of cable.

32. (New) A method of installing a cable reel in a bag, comprising the steps of:

placing a coil of cable on a first hub of a first flange of the cable reel;

placing a second flange of the cable reel opposite from the first flange to hold the coil of cable on the first hub of the first flange;

positioning the first flange on a first support frame located in the bag; and

placing the second flange on the second support frame, wherein the second support frame is positionable in the bag such that the first flange, the coil of cable and the second flange are located between the first support frame and the second support frame,

wherein the step of placing the coil of cable on the first hub of the first flange occurs before the step of placing the second flange on the second support frame.

33. (New) The method of claim 32, wherein the first flange is separable from the second flange for replacement of the coil of cable coil with another coil of cable.

34. (New) The method of claim 32, wherein the step of placing the second flange of the cable reel opposite from the first flange to hold the coil of cable on the first hub of the first flange includes engaging a second hub of the second flange with the first hub.

35. (New) The method of claim 34, further comprising the step of disengaging the second hub from the first hub for replacement of the coil of cable with another coil of cable.

AMENDMENTS TO THE SPECIFICATION

Please amend paragraph [0035] of the specification as follows:

[0035] In a preferred embodiment, the first support frame 102 of the reel 100 is secured to the base of the bag or box, such as by straps, such as via strap 105 (FIG. 1), and the second support frame 104 is secured to the cover or flap of the bag. With the cable coil installed on the hub member 110, the cable coil is inserted into the bag or box between the support frames 102 and 104 in the bag or box. The assembly of the hub portions 150 and 152, the flanges 106 and 108, and the cable coil is preferably inserted into the base of the bag on its side such that the middle flange support 124 of the frame secured to the base of the bag fits inside of the central arbor opening 144 of the flange. Similarly, the middle flange support 124 of the frame secured to the cover of the bag fits inside of the opening 144 of the other flange when the bag is closed. Once the frames 102 and 104 are mated with the flanges 106 and 108, respectively, the operator can then dispense or payout the cable through a cable payout slot or opening in the bag or box. The operator may open the cover of the bag or box to separate the hub portions 150 and 152 by disengaging the snap tabs 174.

Docket No.: 111429.00339
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Rakesh Thakare et al.

Application No.: 15/833,091

Confirmation No.: 1883

Filed: December 6, 2017

Art Unit: 3654

For: METHOD OF INSTALLING CABLE ON
CABLE REEL

Examiner: W. E. Dondero

AMENDMENT AFTER FINAL ACTION WITH RCE

MS AF

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Office Action dated December 2, 2019, please amend the above-identified U.S. patent application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Amendments to the Drawings begin on page 9 of this paper and include an attached replacement sheet.

Remarks/Arguments begin on page 10 of this paper.

An **Appendix** including replacement Fig. 1 is attached following page 16 of this paper.

111429.00339/122452708v.1

AMENDMENTS TO THE DRAWINGS

The attached Replacement Drawing Sheet includes changes to Fig. 1.

Attachment: One (1) Replacement Sheet

REMARKS

By the present amendment, claims 17, 19, 20 and 23 are amended and new claim 24-35 are added. Claims 1-8 and 17-35 are pending with claims 1, 17, 28, and 32 being independent. No new matter is added. Applicant acknowledges and appreciates the allowance of claims 1-8.

Objection to the Drawings

In the Office Action, the drawings are objected to for not showing strapping of the support frames, as recited in claim 20. In response, a Replacement Drawing Sheet is submitted herewith including replacement Fig. 1 showing the strapping, i.e. strapping 105. Also, paragraph [0035] of the specification is amended consistent with the changes to Fig. 1. In view of replacement Fig. 1, Applicant respectfully requests reconsideration and withdrawal of the objection to the drawings.

Claim Rejections 35 U.S.C. § 103

In the Office Action, claims 17-23 stand rejected under 35 U.S.C. § 103 over *Galgano* (U.S. Pat. No. 8,016,222) in view of *Troitzsch* (U.S. Pub. No. 2014/0312159) and *Houston* (U.S. Pub. No. 2010/0314484). Applicant respectfully traverses.

Applicant submits that the proposed combination of *Galgano*, *Troitzsch*, and *Houston* fails to teach, suggest, or render obvious all of the specific limitations and steps of independent claim 17, as explained below.

Galgano

Galgano discloses a cable reel carton 10 that receives a cable reel container 11. The carton 10 includes a front side 12, a bottom side 14, a left side 16, a top side 18, and a right side 20 as seen in Fig. 1 (reproduced below).

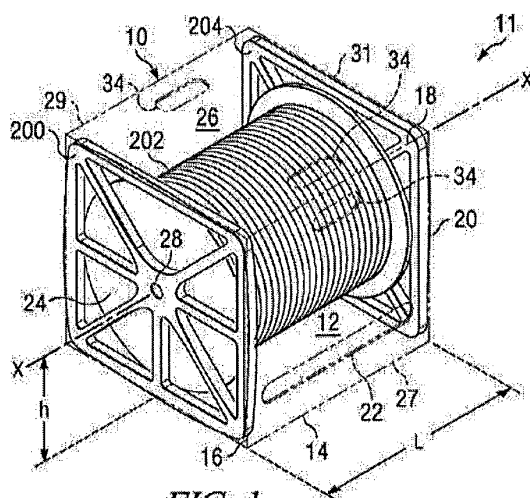


FIG. 1

The cable reel container 11 has left and right caddies 200 and 204 disposed adjacent the inner surfaces of the left and right panels 24 and 31 of the carton's left and right sides 16 and 20, respectively, with a cable reel 202 supported therebetween, as seen in Fig. 2 (reproduced below). The cable reel 202 includes an inner tube 221 that supports the wound cable.

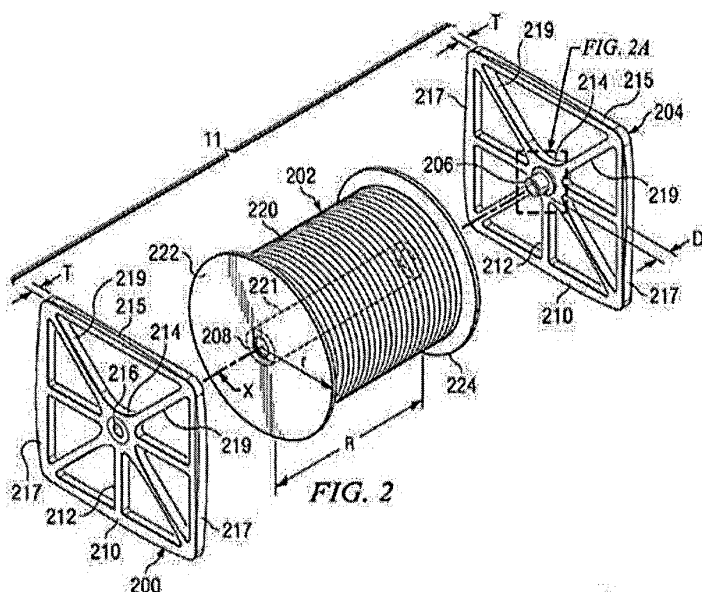


FIG. 2

The caddies 200 and 204 snap into the flanges 222 and 224, respectively, at the ends of the cable reel 202 via bushings 206 that are inserted into openings 208 at either end of the tube 221. Each caddy 200 and 204 has a horizontal base member 210 that rests on the carton's bottom panel 27 and an opposite top rail 215 which allows stacking of the cartons.

In the Office Action, the Examiner asserts that the caddies 200 and 204 are the first and second support frames, as recited in claim 17, and that they are "secured" to the carton's base 14 and the carton's top 18, respectively. As best understood, the Examiner appears to suggest that because there is a close fit between the cable reel container 11 and the carton 10, that the caddies 200 and 204 are secured to the base and top of the carton 10. If Applicant's understanding is incorrect, Applicant respectfully requests clarification. Applicant notes, however, that the caddies 200 and 204 of *Galvano* are merely positioned next to the inner surfaces of the sides of the carton 10. The close fit of the cable reel container 11 in the carton 10 is provided merely so that the cable reel 202 does not come off of the bushings 206 of the caddies. See col. 4, lines 59-65. One skilled in this art would not consider the close fit of *Galvano* to be equivalent to actually securing the caddies 200 and 204 to the panels of the carton 10, as recited in claim 17.

Moreover, claim 17 recites that the first and second support frames are secured specifically to the base and cover, respectively, of the bag. In contrast, the caddies 200 and 204 of *Galvano* are positioned at the sides (i.e. left and right panels 24 and 31) of the carton 10, as seen in Fig. 1, and not at the cover or base of the carton (i.e., top and bottom panels 26 and 27). Indeed, the caddies 200 and 204 of *Galvano* must be positioned at the sides of the carton 10 to provide the necessary support for stacking the cartons.

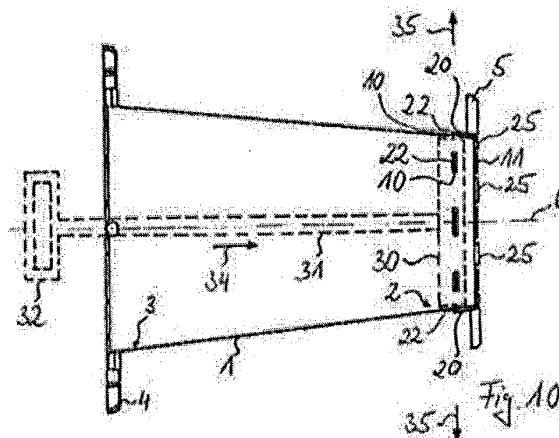
As explained by *Galvano*, each caddy must have a horizontal base member (e.g. member 210) that rests on the carton's bottom panel and an opposite top rail (e.g. rail 215), which allow stacking of the cartons.

Therefore, even if a bag, as taught by *Houston*, could be substituted for the carton of *Galgano*, as suggested by the Examiner, such modification still does not teach or suggest specifically securing the caddies 200 and 204 to the base and cover of the bag, as outlined above.

The Examiner acknowledges that the cable reel container of *Galgano* does not have an elongated annular wall or a truncated annular wall or the step of placing at least a portion of the truncated annular wall within the receiving area of the elongated annular wall, as recited in claim 17. Instead, the cable reel 202 of *Galgano* has a one-piece tube 221 that holds the wound cable.

Troitzsch

The Examiner relies on *Troitzsch* for teaching a reel with a first hub portion (spool core 1) that is an elongated wall and a second hub portion 30 that is a truncated wall received in wall 1, as seen in Fig. 10 (shown below). Applicant respectfully submits, however, that the Examiner misinterprets *Troitzsch*.



More specifically, element 30 is merely a tool with a rod 31 and handle 32 used for separating the flange 5 from the core 1. See paragraphs [0085] to [0087] of *Troitzsch*. Indeed, the flange 5 itself of *Troitzsch* does not have any kind of inwardly extending wall, much less a truncated annular wall, as claimed.

Consequently, the proposed combination of *Galgano*, *Troitzch*, and *Houston* does not teach, suggest or render obvious all of the limitations and steps of independent claim 17, as outlined above. As such, Applicant respectfully requests reconsideration and withdrawal of the rejection of independent claim 17 and its dependent claims 18-23, under 35 U.S.C. § 103.

New Claims 24-25

By the present amendment, new claims 24-35 are added with claims 28 and 32 being new independent claims. Support for the new claims may be found throughout Applicant's disclosure.

New claims 24-27 depend from independent claim 17 and as such distinguish the proposed combination of *Galgano*, *Troitzch*, and *Houston* for the same reasons discussed above regarding claim 17. And new dependent claims 24-27 recite additional features and steps not taught or suggested by the prior art of record. For example, new claim 24 recites the step of removing the truncated annular wall from the elongated annular wall for replacement of the coil of cable with another coil of cable. Nothing in the prior art of record, including *Galgano*, teaches a cable reel that is *reusable* with a replacement coil of cable. Also, new dependent claim 25 recites that the coil of cable lacks a support reel prior to the step of placing the coil of cable on the elongated annular wall. In contrast, the cable reel 202 of *Galgano* is assembled, including the support tube 221, prior to ever placing the cable reel 202 in the carton 10.

New independent claim 28 recites a method of installing a cable reel in a bag, comprising the steps of:

- placing a coil of cable on a first hub of a first flange of the cable reel, wherein the *coil of cable lacks a support reel prior to the step of placing the coil of cable on the first hub*;
- placing a second flange of the cable reel opposite from the first flange to hold the coil of cable on the first hub of the first flange;
- positioning the first flange on a first support frame in the bag; and

- placing the second flange on a second support frame, wherein the second support frame is positionable in the bag such that the first flange, the coil of cable and the second flange are located between the first support frame and the second support frame.

Applicant submits that the prior art of record, including the proposed combination of *Galgano*, *Troitzch*, and *Houston*, does not teach a coil of cable without a support or the specific order of steps of the method of new claim 28, particularly because the cable reel 202 of *Galgano* is pre-assembled with the cable wound around a support, i.e. tube 221. Therefore, Applicant submits that new independent claim 28 and its dependent claims 29-31 are allowable over the prior art of record.

New independent claim 32 recites a method of installing a cable reel in a bag, comprising the steps of:

- placing a coil of cable on a first hub of a first flange of the cable reel;
- placing a second flange of the cable reel opposite from the first flange to hold the coil of cable on the first hub of the first flange;
- positioning the first flange on a first support frame located in the bag; and
- placing the second flange on the second support frame, wherein the second support frame is positionable in the bag such that the first flange, the coil of cable and the second flange are located between the first support frame and the second support frame,
- wherein the step of placing the coil of cable on the first hub of the first flange occurs *before* the step of placing the second flange on the second support frame.

Applicant submits that the prior art of record, including the proposed combination of *Galgano*, *Troitzch*, and *Houston*, does not teach the specific order of steps of the method of new claim 32, particularly given the cable reel 202 of *Galgano* is pre-assembled without any hubs. Accordingly, Applicant submits that new independent claim 32 and its dependent claims 33-35 are allowable over the prior art of record.

Conclusion

In view of the above, Applicant believes the pending application is in condition for allowance.

The Director is hereby authorized to charge any deficiency or credit any overpayment in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 23-2185, under Order No. 111429.00339.

Dated: January 9, 2020

Respectfully submitted,

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Attachment

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 15/833,091		Filing Date 12/06/2017		<input type="checkbox"/> To be Mailed		
ENTITY: <input checked="" type="checkbox"/> LARGE <input type="checkbox"/> SMALL <input type="checkbox"/> MICRO										
APPLICATION AS FILED - PART I										
		(Column 1)	(Column 2)							
FOR		NUMBER FILED	NUMBER EXTRA	RATE (\$)		FEE (\$)				
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A	N/A	N/A						
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A	N/A	N/A						
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A	N/A	N/A						
TOTAL CLAIMS (37 CFR 1.16(j))		minus 20 =	*	x \$80 =						
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =	*	x \$420 =						
<input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL						
APPLICATION AS AMENDED - PART II										
		(Column 1)	(Column 2)	(Column 3)						
AMENDMENT	01/09/2020	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)			
	Total (37 CFR 1.16(i))	* 27	Minus	** 20	= 7	x \$100 =		700		
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 3	= 1	x \$460 =		460		
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))									
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
					TOTAL ADD'L FEE		1160			
AMENDMENT		(Column 1)	(Column 2)	(Column 3)						
		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)			
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =				
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =				
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))									
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
					TOTAL ADD'L FEE					
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.					LIE					
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".					/SHARON D HARRIS/					
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".										
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/833,091	12/06/2017	Rakesh Thakare	111429.00339	1883
27557	7590	12/02/2019	EXAMINER	
BLANK ROME LLP 1825 Eye Street NW WASHINGTON, DC 20006-5403			DONDERO, WILLIAM E	
			ART UNIT	PAPER NUMBER
			3654	
			NOTIFICATION DATE	DELIVERY MODE
			12/02/2019	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

WashingtonDocketing@blankrome.com

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the strapping the support frames (Claim 20) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of 35 U.S.C. 112(b):

(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 20 recites the limitation "the flap" in line 2. There is insufficient antecedent basis for this limitation in the claim.

All claims should be revised carefully to correct all other deficiencies similar to the ones noted above.

Claim Rejections - 35 USC § 103

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

Claims 17-23 is/are rejected under 35 U.S.C. 103 as being unpatentable over Galgano et al. (US-8016222) in view of Troitzsch et al. (US-20140312159) and Houston et al. (US-20100314484). Regarding Claims 17, 19, and 21-23, Galgano et al. discloses a method for installing a cable reel in a box, comprising the steps of securing (via the size and dimensions of 200,204,202,10, see Column 4, Line 59 – Column 5, Line 14) a first support frame 200 to a base 14 of a box; securing (via the size and dimensions of 200,204,202,10, see Column 4, Line 59 – Column 5, Line 14) a second support frame 204 to a cover 18 of

the box; placing a first flange 222 on the first support frame, wherein the first flange includes a first hub portion (at 208); placing a second flange 224 on the second support frame, wherein the second flange includes a second hub portion (at the equivalent position to 208 on 224); and wherein the cable coil 220 is arranged on a side thereof in the box; and each of the first and second flanges has a central arbor opening 208; and the step of fitting a middle support flange 206 of each of the first and second support frames into the central arbor opening of the first and second flanges, respectively; and dispensing of the cable coil through a payout opening 22 in the box (see particularly Figures 1-2) (Figures 1-12). Galgano et al. does not expressly disclose a bag; and wherein the first hub portion or the second hub portion includes an elongate annular wall having a receiving area and the other of the first hub portion and the second hub portion includes a truncated annular wall receivable in the receiving area; and placing at least a portion of the truncated annular wall within the receiving area of the elongated annular wall.

However, Troitzsch et al. teaches a method of installing cable on a cable reel, comprising the steps of: providing a cable reel that includes first 4 and second 5 opposing flanges, respectively, the first flange having a first hub portion 1 and the second flange having a second hub portion 30, the first hub portion having an elongated annular wall (wall of 1) having a receiving area (inside 1) and the second hub portion includes a truncated annular wall (wall of 30) receivable in the receiving are; and placing at least a portion of the truncated annular wall within the receiving area of the elongated annular wall (see particularly Figure 10) (Figures 1-13). Because both Galgano et al. and Troitzsch et al. teach cable reels, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to substitute the cable of Troitzsch et al. for the cable reel of Galgano et al. to achieve the predictable result allowing the spool to be easily disassembled and take up less space when not in use and stored.

Furthermore, boxes and bags are old and well known art equivalents for storing, transporting, and dispensing items stored in them. Therefore, as taught by Houston et al. (see Figures 1-7), it would

have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to store the cable reel of Galgano et al. in a bag to make the assembly lighter and easier to carry from one place to another.

Regarding Claim 18, Galgano et al. in view of Troitzsch et al. and Houston et al. does not expressly disclose the step of placing a cable coil on the elongated annular wall.

However, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to place a cable coil on the elongated annular wall to allow for payout of the cable of the cable coil as it would have been the quickest and easiest way to put a premanufactured coil of cable on the device for dispensing the cable.

Regarding Claim 20, Galgano et al. in view of Troitzsch et al. and Houston et al. does not expressly disclose the step of strapping the first support frame to the base of the bag and strapping the second support frames to the flap (or cover) of the bag.

However, Official Notice is taken that securing via straps is an old and well known method of securing one item to another. It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to use straps to further secure the support frames to the base and flap (or cover), respectively, to further ensure they did not fall over before the cable reel is inserted between them.

Allowable Subject Matter

Claims 1-8 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record when taken as a whole does not disclose or suggest the combination of Claim 1, including a method of

installing cable of a cable reel, comprising the steps of expanding one or more flexible segments of a first hub portion of a first flange by inserting a second hub portion of a second flange inside the first hub portion so that the one or more flexible segments engage the cable coil in conjunction with the rest of the limitations of Claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

With respect to Applicant's arguments filed on 14 October 2019, starting on page 8, line 20 to page 9, line 2, Applicant argues the method of claim 17 is not taught, suggested, or rendered obvious by the prior art of record. Applicant's arguments with respect to claim 17 have been considered but are moot because the arguments do not apply to any of the references being used in the current rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing

date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIAM E DONDERO whose telephone number is (571)272-5590. The examiner can normally be reached on Monday-Friday 6 am - 4 pm ET, Alternate Fridays.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael R Mansen can be reached on 571-272-6608. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/WILLIAM E DONDERO/
Primary Examiner, Art Unit 3654

<i>Notice of References Cited</i>	Application/Control No. 15/833,091		Applicant(s)/Patent Under Reexamination Thakare et al.	
	Examiner WILLIAM E DONDERO		Art Unit 3654	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20100314484-A1	12-2010	Houston; Eddy Robert	A45C3/00	242/588.3
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS


*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)


Notice of References Cited

Part of Paper No. 20191126

<i>Index of Claims</i> 	Application/Control No. 15/833,091	Applicant(s)/Patent Under Reexamination Thakare et al.
	Examiner WILLIAM E DONDERO	Art Unit 3654

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS									
<input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47									
CLAIM		DATE							
Final	Original	05/09/2019	11/26/2019						
	1	✓	=						
	2	✓	=						
	3	✓	=						
	4	✓	=						
	5	✓	=						
	6	✓	=						
	7	✓	=						
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	17		✓						
	18		✓						
	19		✓						
	20		✓						
	21		✓						
	22		✓						
	23		✓						

<i>Search Notes</i> 	Application/Control No. 15/833,091	Applicant(s)/Patent Under Reexamination Thakare et al.
	Examiner WILLIAM E DONDERO	Art Unit 3654

CPC - Searched*		
Symbol	Date	Examiner
B65H 54/103,12	05/09/2019	/WED/
B65H 75/14,22,24,245	05/09/2019	/WED/

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
EAST Text Search - see attached printout	05/09/2019	/WED/
Inventor Name Search	05/09/2019	/WED/
Applicant/Assignee Search	05/09/2019	/WED/
Updated Search for parent applications 15/433,789 and 14/634,007	05/09/2019	/WED/
Above Updated	11/26/2019	/WED/

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

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Used in Lieu of PTO/SB/08A/B
(Based on PTO 10-07 version)

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	15/833,091-Conf. #1883
				Filing Date	December 6, 2017
				First Named Inventor	Rakesh Thakare
				Art Unit	3654
				Examiner Name	W. E. Dondero
Sheet	1	of	1	Attorney Docket Number	111429.00339

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	9,873,588	01/2018	Thakare	
	AB	7,204,452	04/2007	Wilkinson et al.	
	AC	2010/0320309-A1	12/2010	Galgano et al.	
	AD	8,016,222	09/2011	Galgano et al.	
	AE	8,366,126	02/2013	Galgano et al.	
	AF	8,387,909	03/2013	Galgano et al.	
	AG	9,637,343	05/2017	Allwood	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number-Kind Code ⁴ (if known)				
	BA	EP 2017211 A1	01/21/2009			<input checked="" type="checkbox"/>

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	CA	Times Fiber Communications; Innovative Broadband Solutions; Tech Service Bag, pp. 1-2.	<input type="checkbox"/>	

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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/WILLIAM E DONDERO/	Date Considered	11/25/2019
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111429.00339/122103098v.1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /W.E.D/

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S73	24	("5464171" or "2952420" or "6241181").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 09:46
S74	20	("9873588" or "7204452" or "20100320309" or "8016222" or "8366126" or "8387909" or "9637343").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 09:52
S75	132126	"242".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 09:57
S76	1457	S75 and bag	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 09:57
S77	10	(US-20140312159-\$ or US-20170158455-\$ or US-20170158454-\$ or US-20160251196-\$ or US-20130284851-\$ or US-20090152390-\$ or US-20070018031-\$ or US-20150321876-\$).did. or (US-9695008-\$ or US-9862566-\$).did.	US-PGPUB; USPAT	OR	ON	2019/11/25 09:58
S78	6	S77 and bag	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 09:58
S79	3	"8016222".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/11/25 10:00
S80	176	S75 and (bag with (support or frame))	US-PGPUB;	OR	ON	2019/11/25

			USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB			10:38
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S82	7	("2010/0314484").URPN.	USPAT	OR	ON	2019/11/25 10:43
S83	37	("1090612" "20020125161" "20070215502" "20090260922" "20100006692" "20100314484" "20100320310" "2400417" "3150769" "3412847" "3815843" "4160533" "4650073" "4771889" "5139210" "6145780" "6216978" "6601743" "6966791" "7320445" "7792316" "D196953" "D248891" "D284333" "D333039" "D340387" "D340621" "D340840" "D414082" "D529286").PN. OR ("9266697").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/11/25 10:45
S84	27	("1990135" "3614067" "4274606").PN. OR ("6145780").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/11/25 10:48
S85	38	("1990135" "20060273217" "20070215502" "2462776" "2822992" "3245632" "3412847" "3614067" "3650389" "3680810" "3693784" "4244254" "4771889" "4903833" "5449070" "5529186" "5634610" "5904329" "5967451" "6145780" "6234421" "6523777" "6820838" "7124674" "7204452" "7341220").PN. OR ("7938357").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/11/25 10:51
S86	46	("0573563" "1474580" "1783339" "20020125161" "20030080011" "20030098253" "2647704" "3122113" "3693784" "3791119" "3972489" "4111089" "4142694" "4253570" "4582198" "4771889" "4903833" "5165543" "5474254" "5529186" "5897075" "5967451" "6003667" "6145780").PN. OR ("7204452").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/11/25 10:55
S87	10	("3260362" "4657203" "5205411" "6048676").PN. OR ("7341220").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/11/25 10:56
S88	150	S81 or S82 or S83 or S84 or S85 or S86 or S87	US-PGPUB; USPAT; USOCR	OR	ON	2019/11/25 10:57
S89	16	S88 and bag	US-PGPUB; USPAT; USOCR	OR	ON	2019/11/25 10:57

EAST Search History (Interference)

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11/ 26/ 2019 2:05:36 PM

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Used in Lieu of PTO/SB/08A/B
(Based on PTO 10-07 version)

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	15/833,091-Conf. #1883
				Filing Date	December 6, 2017
				First Named Inventor	Rakesh Thakare
				Art Unit	3654
				Examiner Name	W. E. Dondero
Sheet	1	of	1	Attorney Docket Number	111429.00339

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	5,464,171	11/07/1995	Ripplinger	
	AB	2,952,420	09/13/1960	Von Hoorn	
	AC	6,241,181	06/05/2001	Campbell	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number-Kind Code ⁵ (if known)				

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	CA	Times Fiber Communications; Innovative Broadband Solutions; Tech Service Bag, pp. 1-2.	

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¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/WILLIAM E DONDERO/	Date Considered	11/25/2019
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111429.00339/122221109v.1

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /W.E.D/

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
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				Filing Date	December 6, 2017
				First Named Inventor	Rakesh Thakare
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				Examiner Name	W. E. Dondero
Sheet	1	of	1	Attorney Docket Number	111429.00339

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	AB	2,952,420	09/13/1960	Von Hoorn	
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		Country Code ³ Number-Kind Code ⁵ (if known)				

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	Times Fiber Communications; Innovative Broadband Solutions; Tech Service Bag, pp. 1-2.	

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¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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111429.00339/122221109v.1

Docket No.: 111429.00339
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Rakesh Thakare et al.

Application No.: 15/833,091

Confirmation No.: 1883

Filed: December 6, 2017

Art Unit: 3654

For: METHOD OF INSTALLING CABLE ON
CABLE REEL

Examiner: W. E. Dondero

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the filing date of this application, OR more than three months after the date of entry of the national stage in the international application, AND after the mailing date of a first Office Action on the merits, but before the mailing date of any of a Final Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311 or an action that otherwise closes prosecution in this application (37 C.F.R. § 1.97(c)).

Copies of the references on the PTO/SB/08 are not provided.

111429.00339/122221079v.1

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed references.

Please charge our Credit Card in the amount of \$240.00 covering the fee set forth in 37 C.F.R. § 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 23-2185, under Order No. 111429.00339.

Dated: November 19, 2019

Respectfully submitted,

Electronic signature: /Tara L. Marcus/

Tara L. Marcus

Registration No.: 46,510

BLANK ROME LLP

1825 Eye Street, NW

Washington, DC 20006-5403

(202) 772-5800

Attorney for Applicant

Electronic Patent Application Fee Transmittal				
Application Number:		15833091		
Filing Date:		06-Dec-2017		
Title of Invention:		METHOD OF INSTALLING CABLE ON CABLE REEL		
First Named Inventor/Applicant Name:		Rakesh Thakare		
Filer:		Tara Lynette Laster Hoffman/Cheryl de Lopez		
Attorney Docket Number:		111429.00339		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	240	240
Total in USD (\$)				240

Electronic Acknowledgement Receipt	
EFS ID:	37790767
Application Number:	15833091
International Application Number:	
Confirmation Number:	1883
Title of Invention:	METHOD OF INSTALLING CABLE ON CABLE REEL
First Named Inventor/Applicant Name:	Rakesh Thakare
Customer Number:	27557
Filer:	Tara Lynette Laster Hoffman/Cheryl de Lopez
Filer Authorized By:	Tara Lynette Laster Hoffman
Attorney Docket Number:	111429.00339
Receipt Date:	19-NOV-2019
Filing Date:	06-DEC-2017
Time Stamp:	11:40:56
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$240
RAM confirmation Number	E2019AIB41121616
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		IDSP339.pdf	183273	yes	3
			2778145805448e6ec47538ea3f578906266647d1		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Information Disclosure Statement (IDS) Form (SB08)		3	3	
	Transmittal Letter		1	2	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30598	no	2
			02859bafbe33a4049e3b4e4d193380973cb0f0fa		
Warnings:					
Information:					
Total Files Size (in bytes):			213871		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	15/833,091-Conf. #1883
				Filing Date	December 6, 2017
				First Named Inventor	Rakesh Thakare
				Art Unit	3654
				Examiner Name	W. E. Dondero
Sheet	1	of	1	Attorney Docket Number	111429.00339

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	AB	7,204,452	04/2007	Wilkinson et al.	
	AC	2010/0320309-A1	12/2010	Galgano et al.	
	AD	8,016,222	09/2011	Galgano et al.	
	AE	8,366,126	02/2013	Galgano et al.	
	AF	8,387,909	03/2013	Galgano et al.	
	AG	9,637,343	05/2017	Allwood	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number-Kind Code ⁴ (if known)				
	BA	EP 2017211 A1	01/21/2009			<input checked="" type="checkbox"/>

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	Times Fiber Communications; Innovative Broadband Solutions; Tech Service Bag, pp. 1-2.	<input type="checkbox"/>

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Examiner Signature		Date Considered	
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111429.00339/122103098v.1

**Espacenet****Bibliographic data: EP2017211 (A1) — 2009-01-21****Device for unwinding coiled cables**

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Classification: - international: **B65H49/32; B65H75/34**
- cooperative: **B65H49/325 (EP); B65H49/328 (EP); B65H49/36 (EP); B65H2701/34 (EP)**

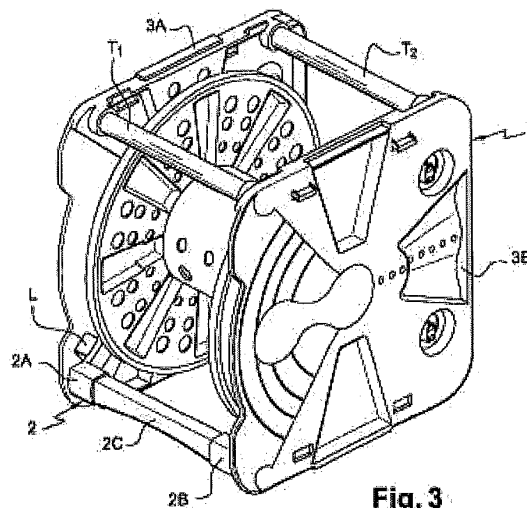
Application number: EP20080158603 20080619 Global Dossier

Priority number (s): FR20070056567 20070718

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FR2918976 (A1) FR2918976 (B1)

Abstract of EP2017211 (A1)

The device has a reel with a shaft (2) constituted of arms (2A, 2B) that are connected to a drum of the reel, free in rotation along its longitudinal axis and linked by a metallic prehension cross member (2C). A reel support (3) has square/rectangular shaped lateral walls (3A, 3B) having shaft maintenance and blocking arrangement, which assures blocking of the cross member on the walls such that the cross member constitutes an additional cross member connected to each of its walls at proximity of corner of the walls, where the arrangement includes a fastening tongue (L) and parallel grooves.

**Fig. 3**



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(54) Dispositif de dévidage de cables bobines en couronne

(57) L'invention concerne un dispositif de dévidage comportant un touret (1) constitué d'un tambour (1A) et de deux flasques latérales (1B, 1C) et un support de touret (3), sur lequel ce dernier est monté libre en rotation, ce support comportant deux parois latérales (3A, 3B) reliées de façon rigide par au moins deux traverses disposées à proximité de deux de leurs coins, ledit touret (1) étant équipé d'un brancard (2) constitué de deux bras (2A, 2B) connectés audit tambour, libres en rotation selon

son axe longitudinal et reliés par une traverse de préhension (2C) et lesdites parois latérales (3A, 3B) du support comportant des agencements de maintien et de blocage de ce brancard.

Selon l'invention, lesdits agencements de blocage assurent le blocage de ladite traverse de préhension (2C) du brancard sur lesdites parois latérales (3A, 3B) du support, de sorte que cette traverse de préhension constitue une traverse supplémentaire solidaire de chacune de ses parois à proximité d'un coin de ses parois.

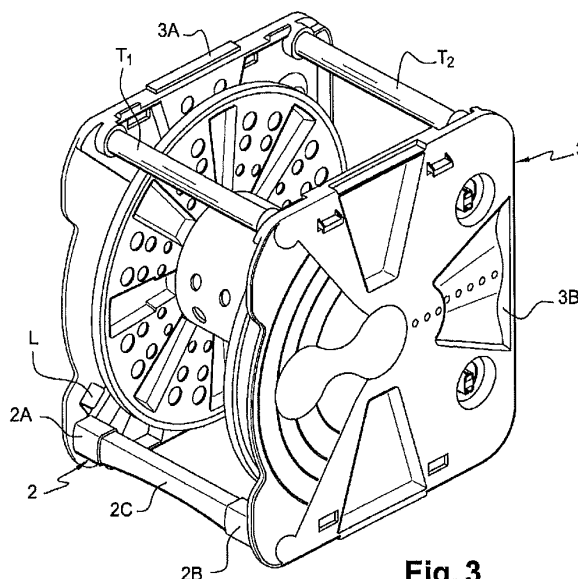


Fig. 3

EP 2 017 211 A1

Description

[0001] L'invention concerne un dispositif de dévidage de câbles bobinés en couronne, en particulier de câbles électriques.

[0002] Comme décrit dans le document de brevet EP 0 738 683, un tel dispositif de dévidage comporte un touret adaptable comportant un mandrin ou tambour et deux joues ou flasques latérales dont au moins l'une est amovible, réglable en position et verrouillable sur le mandrin. Ce réglage en position permet d'adapter le touret à des couronnes de câbles de longueur axiale différentes. Ce touret est associé à un accessoire de support de touret sur lequel ce dernier est monté libre en rotation et qui peut être posé, par exemple sur le sol. Un axe longitudinal du touret y est supporté par deux pattes portées par deux bras du support.

[0003] Ce premier type de support de touret assure le maintien du touret par simple gravité sur les deux pattes en forme de U. Lors d'efforts trop importants sur le touret ou lors de déplacement du support, la stabilité de dispositif de dévidage peut être perturbée, que ce soit au niveau du support qu'au niveau du touret.

[0004] Le document de brevet EP 0 922 003 décrit également un tel dispositif de dévidage de câbles bobinés en couronne comportant un touret et un support de touret constitué d'un boîtier de section rectangulaire comportant un couvercle et dans lequel les flasques du touret viennent reposer sur un agencement de quatre roulettes afin d'assurer la libre rotation du touret.

[0005] Cet agencement est de constitution plus robuste, mais est adapté à des couronnes de câbles de dimension et de poids relativement petits.

[0006] En effet, le touret y roule sur les roulettes qui supportent le poids total de la couronne et du touret. Si ce poids est relativement important, les roulettes sont soumises à un effort important entraînant leur usure rapide et des phénomènes de frottement et de blocage rendent cet agencement peu efficace.

[0007] De plus, le touret équipé d'une couronne doit être porté et soulevé pour sa mise en place dans le support de dévidage, ce qui est peu aisé dans le cas de poids et de dimension relativement importants.

[0008] Le document de brevet US 5 934 314 divulgue un dispositif de dévidage comportant un touret constitué d'un tambour et de deux flasques latérales et un support de touret sur lequel ce dernier est monté libre en rotation, ce support comportant deux parois latérales reliées de façon rigide.

[0009] Le touret est équipé d'un brancard constitué de deux bras connectés au tambour, libres en rotation selon son axe longitudinal et reliés par une traverse de préhension et les parois latérales du support comportent des agencements de maintien et de blocage de ce brancard.

[0010] L'objet de l'invention est de proposer un tel dispositif de dévidage de câbles, en particulier de câbles électriques, assurant pour toute dimension de la couron-

ne, une stabilité parfaite du support de dévidage équipé d'un touret et d'une couronne de câble, un maintien efficace en libre rotation du touret dans le support et, de plus, facilitant la mise en place du touret sur le support de dévidage.

[0011] Pour ce faire, l'invention propose un dispositif de dévidage comportant un touret constitué d'un tambour et de deux flasques latérales et un support de touret, sur lequel ce dernier est monté libre en rotation, ce support comportant deux parois latérales reliées de façon rigide par au moins deux traverses disposées à proximité de deux de leurs coins, ledit touret étant équipé d'un brancard constitué de deux bras connectés audit tambour, libres en rotation selon son axe longitudinal et reliés par une traverse de préhension et lesdites parois latérales du support comportant des agencements de maintien et de blocage de ce brancard, caractérisé en ce que lesdits agencements de blocage assurent le blocage de ladite traverse de préhension du brancard sur lesdites parois latérales du support, de sorte que cette traverse de préhension constitue une traverse supplémentaire solidaire de chacune de ses parois à proximité d'un coin de ses parois.

[0012] Selon un mode de réalisation préféré de l'invention, lesdites deux parois latérales sont sensiblement rectangulaires ou carrées et en ce que ladite liaison des deux parois latérales comporte trois traverses solidaires de chacune de ses parois à proximité de trois de leurs coins.

[0013] De préférence, chaque bras dudit brancard présente à son extrémité un tenon qui est emboîté dans un alésage latéral central du tambour.

[0014] Très avantageusement, lesdits agencements de blocage assurent le blocage de ladite traverse de préhension du brancard sur lesdites parois latérales du support, de sorte que cette traverse de préhension constitue une quatrième traverse solidaire de chacune de ses parois à proximité d'un coin de ses parois.

[0015] De préférence, ledit agencement de blocage comporte pour chaque paroi latérale associée à chaque bras d'une part un moyen de blocage en rotation du bras autour de l'axe de rotation du touret et d'autre part un moyen de blocage en translation longitudinale du bras.

[0016] Ledit moyen de blocage en rotation peut être constitué d'une languette de clipsage portée par chaque paroi latérale du support contre laquelle vient en butée bloquée une bride latérale portée par le bras du brancard, correspondant.

[0017] Ledit moyen de blocage en translation peut être constitué d'une série de rainures parallèles portées par la face interne de chaque paroi dans lesquelles viennent s'emboîter une série de nervures agencées sur la face externe de chaque bras du brancard.

[0018] De préférence, lesdits agencements de maintien assurent le maintien de chacune desdites bras du brancard à proximité du centre de chacune desdites parois latérales.

[0019] Sur sa face tournée vers l'extérieur, l'extrémité

libre de chaque bras peut comporter une bride radiale et circulaire, coopérant avec une rainure circulaire partielle agencée sur la paroi correspondante du support et constituant ledit agencement de maintien.

[0020] Au moins l'une des deux flasques latérales peut être amovible et réglable en position sur le tambour.

[0021] L'invention est décrite ci-après plus en détail à l'aide de figures ne représentant qu'un mode de réalisation préféré de l'invention.

La figure 1 est une vue en perspective d'un touret, partie d'un dispositif de dévidage conforme à l'invention.

La figure 2 est une vue partielle en coupe et en perspective d'un touret, partie d'un dispositif de dévidage conforme à l'invention.

La figure 3 est une vue en perspective d'un dispositif de dévidage conforme à l'invention.

Les figures 4 et 5 sont des vues en coupe transversale dans un plan perpendiculaire à l'axe du tambour.

La figure 6 est une vue en coupe horizontale correspondante à la figure 4, selon un plan passant par l'axe de symétrie du tambour 1A.

La figure 7 est une vue en coupe de détail de la figure 6.

La figure 8 est une vue en coupe de détail de la figure 5.

[0022] Le touret représenté sur la figure 1 peut être un touret du type de celui décrit dans la demande de brevet FR 2 886 930.

[0023] Ce touret 1 en matière plastique est composé d'un tambour 1A et de deux flasques 1B, 1C montés ensemble. Une flasque 1B comporte un agencement de montage pour une poignée de portage 1D du touret, cette poignée étant articulée dans une rainure circulaire de la flasque et pivotable dans un premier sens où elle s'encastre complètement dans la rainure, dans une position dite d'utilisation, et dans un autre sens où elle vient en butée dans une position saillante de la rainure, dans une position dite de stockage. Cette poignée 1D est ici représentée en position déployée de portage du touret.

[0024] Afin de pouvoir adapter le touret à des couronnes de câbles de longueur axiale différente, au moins une des flasques latérales est réglable en position sur le tambour 1A. Pour obtenir ce réglage, la surface externe du tambour présente un filetage sur lequel est guidée une denture de préférence constituée de tronçons de dents réparties sur la périphérie de l'alésage central de la flasque en question. Ainsi, par vissage de la flasque sur le tambour, l'écart entre les deux flasques 1B, 1C

peut être réglé à la longueur axiale de la couronne de câble à mettre en place.

[0025] La flasque est donc démontée, la couronne de câble introduite sur le tambour, puis la flasque est remontée et réglée à la bonne position.

[0026] Selon l'invention, le touret 1 est associé à un brancard 2 comme illustré sur la figure 2, où les flasques ne sont pas représentées.

[0027] Le touret est équipé d'un brancard 2 constitué de deux bras 2A, 2B de préférence en matière plastique, connectés au tambour 1A, libres en rotation selon son axe longitudinal et reliés par une traverse de préhension 2C, de préférence métallique.

[0028] Les flasques non représentées ici prennent place sur le filetage périphérique du tambour 1A.

[0029] La mise en place du brancard 2 se fait par déformation par écartement de ces bras 2A, 2B et emboîtement d'un tenon 2D porté par l'extrémité de chaque bras 2A, 2B qui est logé dans un alésage central et latéral du tambour.

[0030] Bien que non illustré, le montage du brancard 2 est effectué une fois la couronne de câble mise en place sur le touret. Dans cette position, le brancard peut permettre le portage du touret chargé, par préhension de la traverse de préhension 2C.

[0031] Le dispositif de dévidage conforme à l'invention comporte également un support de touret 3, représenté sur la figure 3, sur lequel le touret 1, ici non chargé d'une couronne de câble, est monté libre en rotation.

[0032] Ce support 3 comporte deux parois latérales 3A, 3B de préférence en matière plastique, sensiblement rectangulaires ou carrées reliées de façon rigide, au moyen de trois traverses T_1 , T_2 , T_3 de préférence métallique, solidaires de chacune de ses parois à proximité de trois de leurs coins.

[0033] Ces parois latérales du support 3A, 3B comportent des agencements de maintien et de blocage du brancard 2.

[0034] Ces agencements de blocage assurent le blocage de la traverse de préhension 2C du brancard sur les parois latérales 3A, 3B du support de sorte que cette traverse de préhension constitue une quatrième traverse solidaire de chacune de ses parois à proximité d'un de ses coins.

[0035] Ces agencements de maintien assurent le maintien de chacun des bras 2A, 2B du brancard à proximité du centre de chacune des parois latérales 3A, 3B.

[0036] Ces agencements de maintien et de blocage vont être précisés au moyen des figures 4 à 7.

[0037] Les figures 4 et 5 sont des vues en coupe transversale verticale dans un plan perpendiculaire à l'axe du tambour, une flasque et le brancard étant visible uniquement. La figure 6 est une vue en coupe horizontale correspondante à la figure 4, selon un plan passant par l'axe de symétrie du tambour 1A.

[0038] Le brancard est tout d'abord maintenu en position à proximité du centre de chacune des parois latérales 3A, 3B grâce à un moyen de maintien agencé sur chaque

flasque et coopérant avec un moyen complémentaire porté par l'extrémité de chaque bras 2A, 2B opposée à l'extrémité connectée à la traverse de préhension 2C.

[0039] Ces moyens sont représentés en détail sur la figure 7.

[0040] Comme il a été déjà vu et comme également illustré sur la figure 2, chaque bras 2A, 2B présente à son extrémité un tenon 2D qui est emboîté dans un alésage latéral central du tambour 1A et qui assure la liaison du brancard 2 sur ce dernier.

[0041] Sur sa face tournée vers l'extérieur, cette extrémité de chaque bras comporte une bride B radiale et circulaire, complète ou partielle, dont l'axe central est l'axe de symétrie du tenon 2D. Cette bride radiale est introduite dans une rainure circulaire partielle R agencée sur la paroi correspondante 3A du support, qui est ouverte pour permettre l'introduction de la bride B, comme particulièrement visible sur la figure 4, où le bras est en position d'introduction dans la rainure correspondante. Chaque bras 2A, 2B est ainsi maintenu libre en rotation sur chaque paroi latérale 3A, 3B du support de dévidage.

[0042] Par déplacement de la traverse de préhension 2C vers le bas et rotation correspondante de la bride B dans la rainure R, le brancard est alors déplacé dans la position illustrée sur la figure 5.

[0043] Chaque bras 2A, 2B est alors bloqué par les agencements de blocage portés par chaque paroi latérale 3A, 3B du support de dévidage. Cet agencement de blocage comporte pour chaque paroi latérale 3A, 3B associée à chaque bras 2A, 2B d'une part un moyen de blocage en rotation du bras autour de l'axe de rotation du touret et d'autre part un moyen de blocage en translation longitudinale du bras.

[0044] Le moyen de blocage en rotation est constitué d'une languette de clipsage L portée par chaque paroi latérale 3A, 3B du support contre laquelle vient en butée bloquée une bride D latérale portée par le bras 2A, 2B du brancard, correspondant.

[0045] Le moyen de blocage en translation est constitué d'une série de rainures S parallèles portées par la face interne de chaque paroi 3A, 3B dans lesquelles viennent s'emboîter une série de nervures N agencées sur la face externe de chaque bras 2A, 2B du brancard.

[0046] Ainsi maintenu et bloqué, chaque bras 2A, 2B du brancard est solidement solidaire de chaque paroi latérale 3A, 3B du support de dévidage et la traverse de préhension 2C du brancard forme une quatrième traverse de renforcement du support de dévidage. Le tambour 1A pourvu de ces deux flasques 1C, 1D est quand à lui porté libre de tourner sur le brancard, afin de permettre le dévidage de la couronne de câble.

[0047] Pour standardiser le moulage des parois latérales 3A, 3B du support de dévidage, ces dernières sont conçues de façon symétrique par rapport à un plan horizontal, telles sur vues selon les figures.

[0048] Plusieurs supports de dévidage peuvent être superposés comme illustré sur la figure 5.

[0049] Pour ce faire, les parois latérales 3A, 3B du sup-

port de dévidage sont pourvues à proximité de chacun de leurs coins d'un cliquet C et chaque paroi 3A, 3B comporte deux attaches A réalisées de moulage avec la paroi et maintenues par des languettes sécables.

5 [0050] Lorsqu'il est souhaité de superposer deux supports de dévidage, les quatre attaches A des deux parois 3A, 3B du support inférieur sont détachées des parois, et sont encliquetées sur les quatre cliquets C correspondants, à savoir supérieurs pour le support inférieur et inférieurs pour le support supérieur. Cet agencement de cliquets et d'attache est illustré en détail sur la figure 8.

Revendications

- 15 1. Dispositif de dévidage comportant un touret (1) constitué d'un tambour (1A) et de deux flasques latérales (1B, 1C) et un support de touret (3), sur lequel ce dernier est monté libre en rotation, ce support comportant deux parois latérales (3A, 3B) reliées de façon rigide par au moins deux traverses disposées à proximité de deux de leurs coins, ledit touret (1) étant équipé d'un brancard (2) constitué de deux bras (2A, 2B) connectés audit tambour, libres en rotation selon son axe longitudinal et reliés par une traverse de préhension (2C) et lesdites parois latérales (3A, 3B) du support comportant des agencements de maintien et de blocage de ce brancard, **caractérisé en ce que** lesdits agencements de blocage assurent le blocage de ladite traverse de préhension (2C) du brancard sur lesdites parois latérales (3A, 3B) du support, de sorte que cette traverse de préhension constitue une traverse supplémentaire solidaire de chacune de ses parois à proximité d'un coin de ses parois.
- 20 2. Dispositif selon la revendication précédente, **caractérisé en ce que** lesdites deux parois latérales (3A, 3B) sont sensiblement rectangulaires ou carrées et **en ce que** ladite liaison des deux parois latérales (3A, 3B) comporte trois traverses (T_1 , T_2 , T_3) solitaires de chacune de ses parois à proximité de trois de leurs coins.
- 25 3. Dispositif selon l'une des revendications précédentes, **caractérisé en ce que** chaque bras (2A, 2B) dudit brancard présente à son extrémité un tenon (2D) qui est emboîté dans un alésage latéral central du tambour (1A).
- 30 4. Dispositif selon l'une des revendications précédentes, **caractérisé en ce que** ledit agencement de blocage comporte pour chaque paroi latérale (3A, 3B) associée à chaque bras (2A, 2B) d'une part un moyen de blocage en rotation du bras autour de l'axe de rotation du touret (1) et d'autre part un moyen de blocage en translation longitudinale du bras.

5. Dispositif selon la revendication précédente, **caractérisé en ce que** ledit moyen de blocage en rotation est constitué d'une languette de clipsage (L) portée par chaque paroi latérale (3A, 3B) du support contre laquelle vient en butée bloquée une bride (D) latérale portée par le bras (2A, 2B) du brancard, correspondant. 5
6. Dispositif selon la revendication 4 ou 5, **caractérisé en ce que** ledit moyen de blocage en translation est constitué d'une série de rainures (S) parallèles portées par la face interne de chaque paroi (3A, 3B) dans lesquelles viennent s'emboîter une série de nervures (N) agencées sur la face externe de chaque bras (2A, 2B) du brancard. 10 15
7. Dispositif selon l'une des revendications précédentes, **caractérisé en ce que** lesdits agencements de maintien assurent le maintien de chacun desdites bras (2B, 2B) du brancard à proximité du centre de chacune desdites parois latérales (3A, 3B). 20
8. Dispositif selon la revendication précédente, **caractérisé en ce que**, sur sa face tournée vers l'extérieur, l'extrémité libre de chaque bras (2A, 2B) comporte une bride (B) radiale et circulaire, coopérant avec une rainure circulaire partielle (R) agencée sur la paroi correspondante (3A, 3B) du support et constituant ledit agencement de maintien. 25 30
9. Dispositif selon l'une des revendications précédentes, **caractérisé en ce que** au moins l'une des deux flasques latérales (1B, 1C) est amovible et réglable en position sur le tambour (1A). 35

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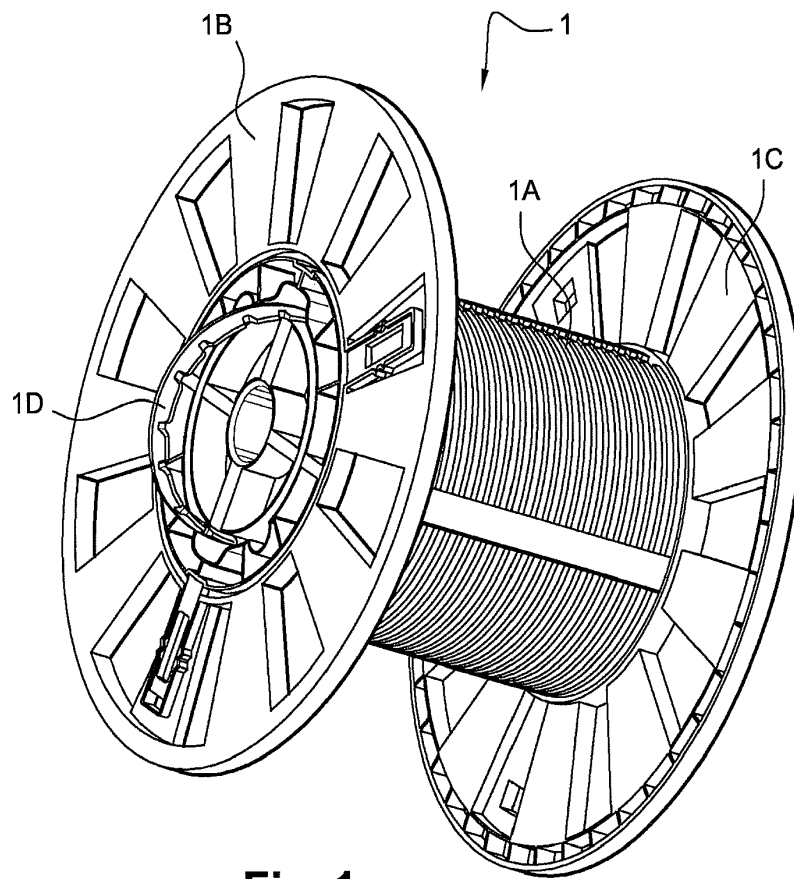


Fig. 1

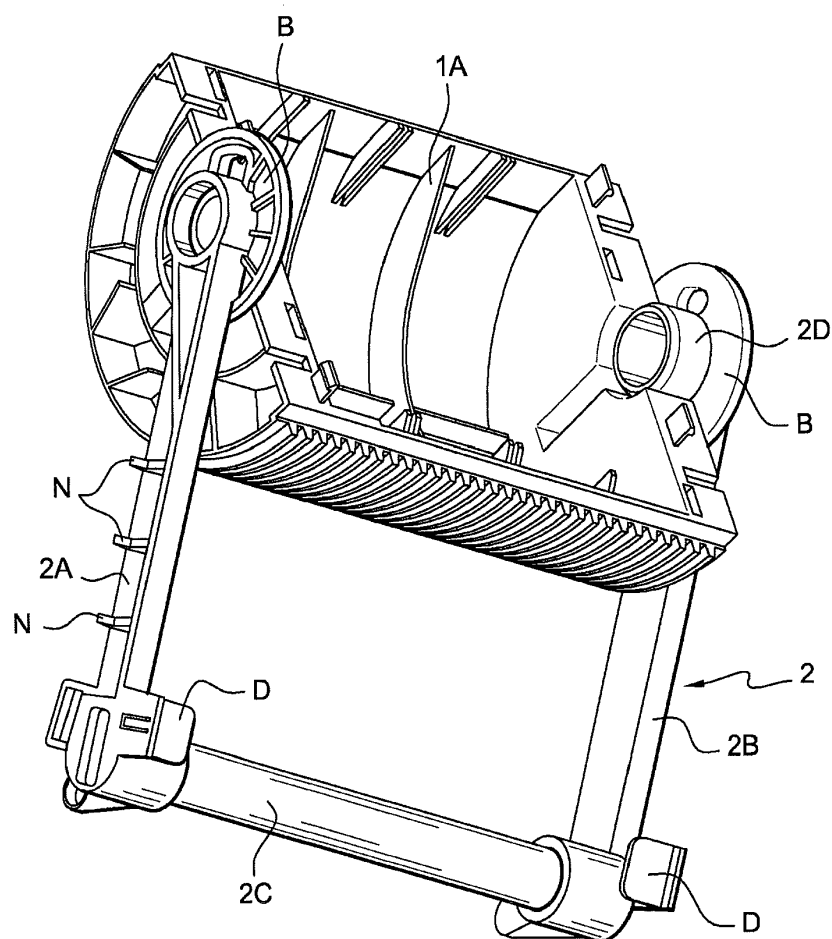


Fig. 2

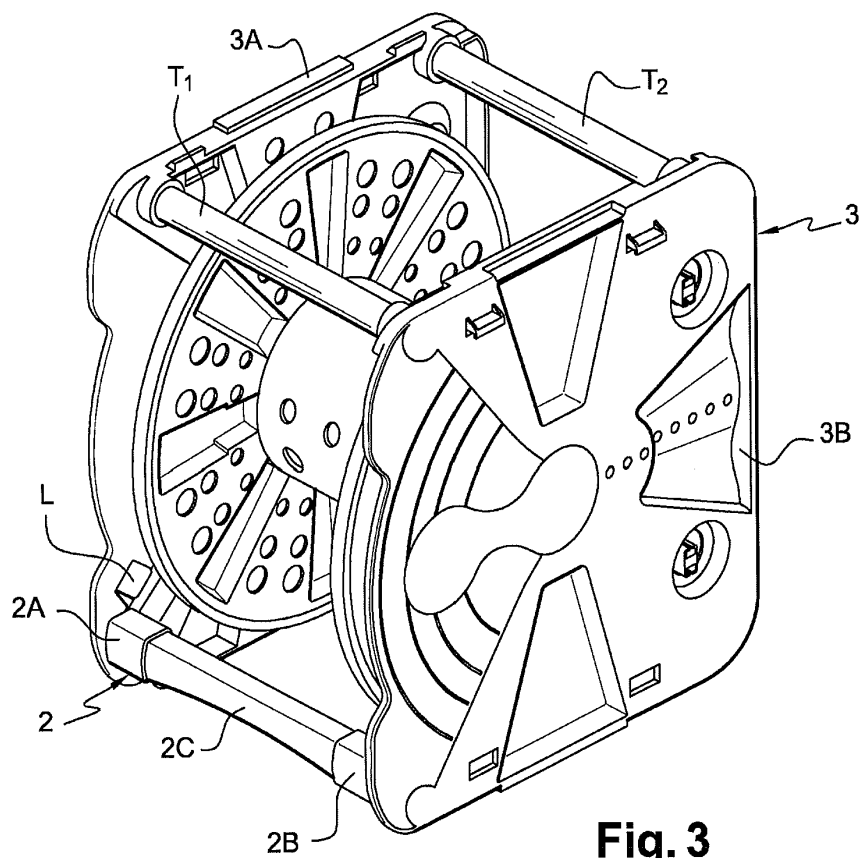


Fig. 3

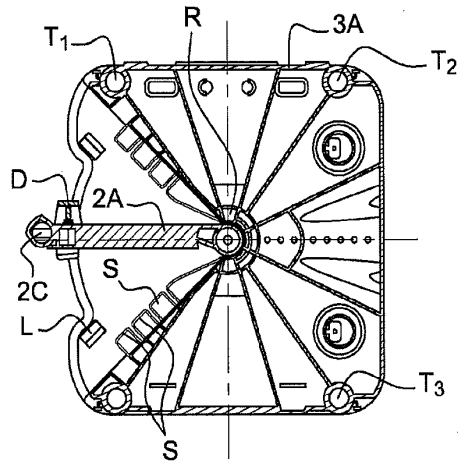


Fig. 4

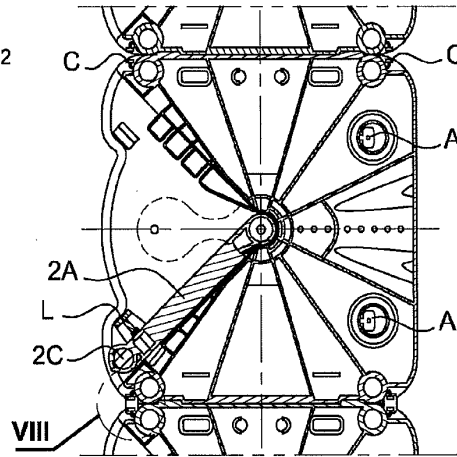


Fig. 5

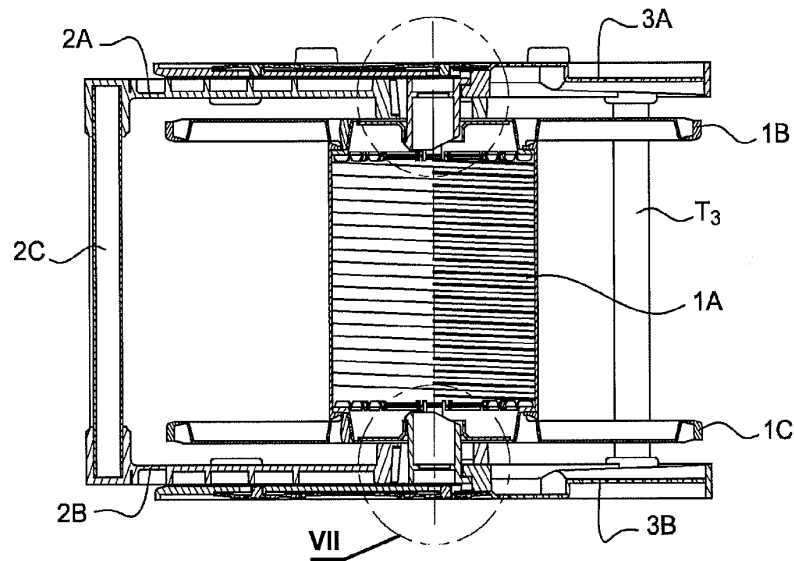
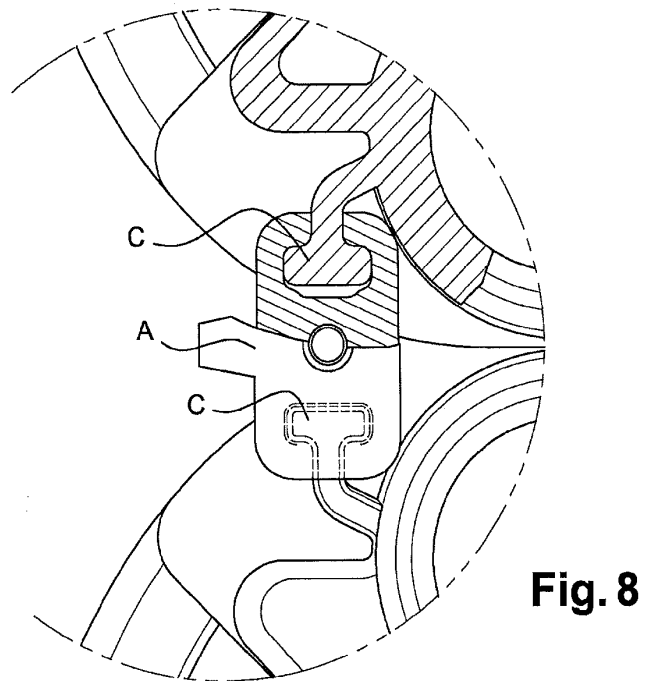
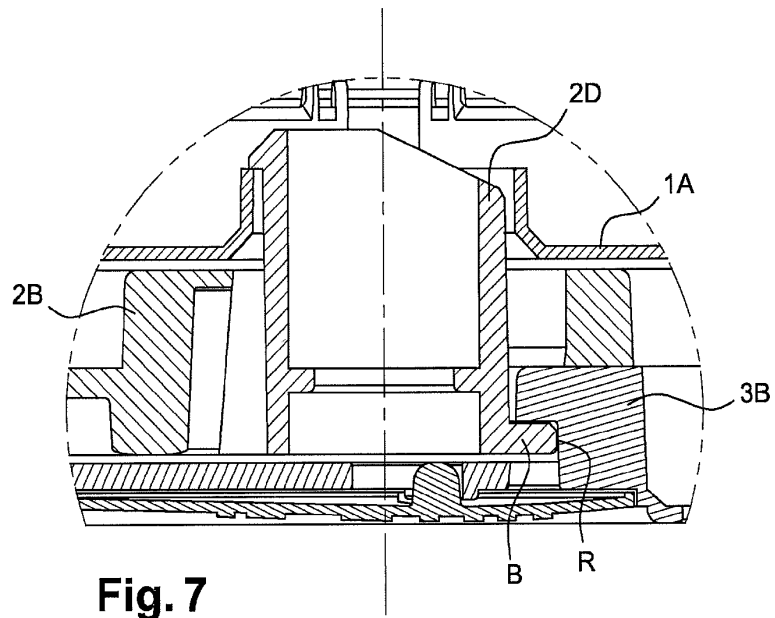


Fig. 6





RAPPORT DE RECHERCHE EUROPEENNE

Numéro de la demande

EP 08 15 8603

DOCUMENTS CONSIDERES COMME PERTINENTS			
Catégorie	Citation du document avec indication, en cas de besoin, des parties pertinentes	Revendication concernée	CLASSEMENT DE LA DEMANDE (IPC)
A	US 5 934 314 A (SPEAR KENNETH J [US] ET AL) 10 août 1999 (1999-08-10) * colonne 4, ligne 9 - ligne 63 * * figures 1,2,5,6,10,11 * -----	1-9	INV. B65H49/32 B65H75/34
A	EP 0 738 683 A (ALCATEL CABLE [FR]) 23 octobre 1996 (1996-10-23) * colonne 2, ligne 7 - ligne 27 * * figures 2,4,6 * -----	1-10	
A	FR 1 563 207 A (DOUBLET JACK) 11 avril 1969 (1969-04-11) * page 1, colonne 2 * * figures 1,2 * -----	1-3,8,9	
A	US 5 657 789 A (TISBO THOMAS A [US] ET AL) 19 août 1997 (1997-08-19) * colonne 3, ligne 62 - colonne 4, ligne 22 * * figures 1,2 * -----	1,3,8	
			DOMAINES TECHNIQUES RECHERCHES (IPC)
			B65H H02G
Le présent rapport a été établi pour toutes les revendications			
Lieu de la recherche La Haye		Date d'achèvement de la recherche 31 octobre 2008	Examinateur Guisan, Thierry
CATEGORIE DES DOCUMENTS CITES X : particulièrement pertinent à lui seul Y : particulièrement pertinent en combinaison avec un autre document de la même catégorie A : arrière-plan technologique O : divulgation non-écrite P : document intermédiaire		T : théorie ou principe à la base de l'invention E : document de brevet antérieur, mais publié à la date de dépôt ou après cette date D : cité dans la demande L : cité pour d'autres raisons & : membre de la même famille, document correspondant	

EPO FORM 1503 03-02 (P04-02)

**ANNEXE AU RAPPORT DE RECHERCHE EUROPEENNE
RELATIF A LA DEMANDE DE BREVET EUROPEEN NO.**

EP 08 15 8603

La présente annexe indique les membres de la famille de brevets relatifs aux documents brevets cités dans le rapport de recherche européenne visé ci-dessus.

Lesdits membres sont contenus au fichier informatique de l'Office européen des brevets à la date du

Les renseignements fournis sont donnés à titre indicatif et n'engagent pas la responsabilité de l'Office européen des brevets.

31-10-2008

Document brevet cité au rapport de recherche		Date de publication	Membre(s) de la famille de brevet(s)	Date de publication
US 5934314	A	10-08-1999	AUCUN	
EP 0738683	A	23-10-1996	FR 2733219 A1	25-10-1996
FR 1563207	A	11-04-1969	AUCUN	
US 5657789	A	19-08-1997	CA 2183014 A1	12-02-1997

EPO FORM P0480

Pour tout renseignement concernant cette annexe : voir Journal Officiel de l'Office européen des brevets, No.12/82

EP 2 017 211 A1

RÉFÉRENCES CITÉES DANS LA DESCRIPTION

Cette liste de références citées par le demandeur vise uniquement à aider le lecteur et ne fait pas partie du document de brevet européen. Même si le plus grand soin a été accordé à sa conception, des erreurs ou des omissions ne peuvent être exclues et l'OEB décline toute responsabilité à cet égard.

Documents brevets cités dans la description

- EP 0738683 A [0002]
- EP 0922003 A [0004]
- US 5934314 A [0008]
- FR 2886930 [0022]

Electronic Patent Application Fee Transmittal				
Application Number:		15833091		
Filing Date:		06-Dec-2017		
Title of Invention:		METHOD OF INSTALLING CABLE ON CABLE REEL		
First Named Inventor/Applicant Name:		Rakesh Thakare		
Filer:		Tara Lynette Laster Hoffman/Cheryl de Lopez		
Attorney Docket Number:		111429.00339		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	240	240
Total in USD (\$)				240

Electronic Acknowledgement Receipt	
EFS ID:	37575487
Application Number:	15833091
International Application Number:	
Confirmation Number:	1883
Title of Invention:	METHOD OF INSTALLING CABLE ON CABLE REEL
First Named Inventor/Applicant Name:	Rakesh Thakare
Customer Number:	27557
Filer:	Tara Lynette Laster Hoffman/Cheryl de Lopez
Filer Authorized By:	Tara Lynette Laster Hoffman
Attorney Docket Number:	111429.00339
Receipt Date:	28-OCT-2019
Filing Date:	06-DEC-2017
Time Stamp:	12:11:03
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$240
RAM confirmation Number	E20190RC11228892
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		IDS339.pdf	1748579	yes	19
			209fc506b1c37f188bd99170000be5211e9a2f11		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Transmittal Letter		1	2	
	Information Disclosure Statement (IDS) Form (SB08)		3	3	
	Foreign Reference		4	17	
	Non Patent Literature		18	19	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30598	no	2
			804d5f8374fc9b6984f1dcc1b543cc3acf896585		
Warnings:					
Information:					
Total Files Size (in bytes):			1779177		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Docket No.: 111429.00339
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Rakesh Thakare et al.

Application No.: 15/833,091

Confirmation No.: 1883

Filed: December 6, 2017

Art Unit: 3654

For: METHOD OF INSTALLING CABLE ON
CABLE REEL

Examiner: W. E. Dondero

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed more than three months after the filing date of this application, OR more than three months after the date of entry of the national stage in the international application, AND after the mailing date of a first Office Action on the merits, but before the mailing date of any of a Final Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311 or an action that otherwise closes prosecution in this application (37 C.F.R. § 1.97(c)).

111429.00339/122103095v.1

In accordance with 37 C.F.R. § 1.98(a)(2)(ii), copies of U.S. patents and U.S. patent application publications are not submitted. Submitted herewith are copies of foreign patents and non-patent literature in accordance with 37 C.F.R. § 1.98(a)(2).

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed references.

Please charge our Credit Card in the amount of \$240.00 covering the fee set forth in 37 C.F.R. § 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 23-2185, under Order No. 111429.00339.

Dated: October 28, 2019

Respectfully submitted,

Electronic signature: /Tara L. Marcus/

Tara L. Marcus

Registration No.: 46,510

BLANK ROME LLP

1825 Eye Street, NW

Washington, DC 20006-5403

(202) 772-5800

Attorney for Applicant

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Rakesh Thakare et al.

Application No.: 15/833,091

Confirmation No.: 1883

Filed: December 6, 2017

Art Unit: 3654

For: METHOD OF INSTALLING CABLE ON
CABLE REEL

Examiner: W. E. Dondero

AMENDMENT IN RESPONSE TO NON-FINAL OFFICE ACTION

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Office Action dated May 14, 2019, please amend the above-identified U.S. patent application as follows:

Amendments to the Drawings begin on page 2 of this paper.

Amendments to the Specification begin on page 3 of the paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 4 of this paper.

Remarks/Arguments begin on page 8 of this paper.

Attachments: Replacement Drawing Sheets (two sheets) and a Terminal Disclaimer

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) 111429.00339	
Application Number 15/833,091-Conf. #1883		Filed December 6, 2017	
For METHOD OF INSTALLING CABLE ON CABLE REEL			
Art Unit 3654		Examiner W. E. Dondero	
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above-identified application.			
The requested extension and fee are as follows (check time period desired and enter the appropriate fee below):			
	<u>Fee</u>	<u>Small Entity Fee</u>	<u>Micro Entity Fee</u>
<input type="checkbox"/> One month (37 CFR 1.17(a)(1))	\$200	\$100	\$50
<input checked="" type="checkbox"/> Two months (37 CFR 1.17(a)(2))	\$600	\$300	\$150
<input type="checkbox"/> Three months (37 CFR 1.17(a)(3))	\$1,400	\$700	\$350
<input type="checkbox"/> Four months (37 CFR 1.17(a)(4))	\$2,200	\$1,100	\$550
<input type="checkbox"/> Five months (37 CFR 1.17(a)(5))	\$3,000	\$1,500	\$750
<input type="checkbox"/> Applicant asserts small entity status. See 37 CFR 1.27. <input type="checkbox"/> Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously. <input type="checkbox"/> A check in the amount of the fee is enclosed. <input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached. <input type="checkbox"/> The Director has already been authorized to charge fees in this application to a Deposit Account. <input checked="" type="checkbox"/> The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number <u>23-2185</u> . <input checked="" type="checkbox"/> Payment made via EFS-Web.			
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.			
I am the			
<input type="checkbox"/> applicant.			
<input checked="" type="checkbox"/> attorney or agent of record. Registration number <u>46,510</u> .			
<input type="checkbox"/> attorney or agent acting under 37 CFR 1.34. Registration number _____.			
_____ /Tara L. Marcus/ Signature		_____ October 14, 2019 Date	
_____ Tara L. Marcus Typed or printed name		_____ (202) 772-5957 Telephone Number	
NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Submit multiple forms if more than one signature is required, see below*.			
<input checked="" type="checkbox"/> * Total of <u>1</u> forms are submitted.			

Electronic Patent Application Fee Transmittal				
Application Number:		15833091		
Filing Date:		06-Dec-2017		
Title of Invention:		METHOD OF INSTALLING CABLE ON CABLE REEL		
First Named Inventor/Applicant Name:		Rakesh Thakare		
Filer:		Tara Lynette Laster Hoffman/Cheryl de Lopez		
Attorney Docket Number:		111429.00339		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension - 2 months with \$0 paid	1252	1	600	600
Miscellaneous:				
Total in USD (\$)				600

Electronic Acknowledgement Receipt	
EFS ID:	37449015
Application Number:	15833091
International Application Number:	
Confirmation Number:	1883
Title of Invention:	METHOD OF INSTALLING CABLE ON CABLE REEL
First Named Inventor/Applicant Name:	Rakesh Thakare
Customer Number:	27557
Filer:	Tara Lynette Laster Hoffman/Cheryl de Lopez
Filer Authorized By:	Tara Lynette Laster Hoffman
Attorney Docket Number:	111429.00339
Receipt Date:	14-OCT-2019
Filing Date:	06-DEC-2017
Time Stamp:	16:10:48
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$ 600
RAM confirmation Number	E20190DG11019216
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		amend00339.pdf	324550	yes	12
			02f06b9435e4fcad160d450e362cbece6f35a30e		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Drawings-only black and white line drawings		11	12	
	Applicant Arguments/Remarks Made in an Amendment		9	10	
	Claims		5	8	
	Specification		4	4	
	Drawings-only black and white line drawings		3	3	
	Amendment/Req. Reconsideration-After Non-Final Reject		2	2	
	Extension of Time		1	1	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30872	no	2
			33ee1a75275ef07262000f1fb7e5037ecc35cefa		
Warnings:					
Information:					
Total Files Size (in bytes):			355422		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

REPLACEMENT SHEET

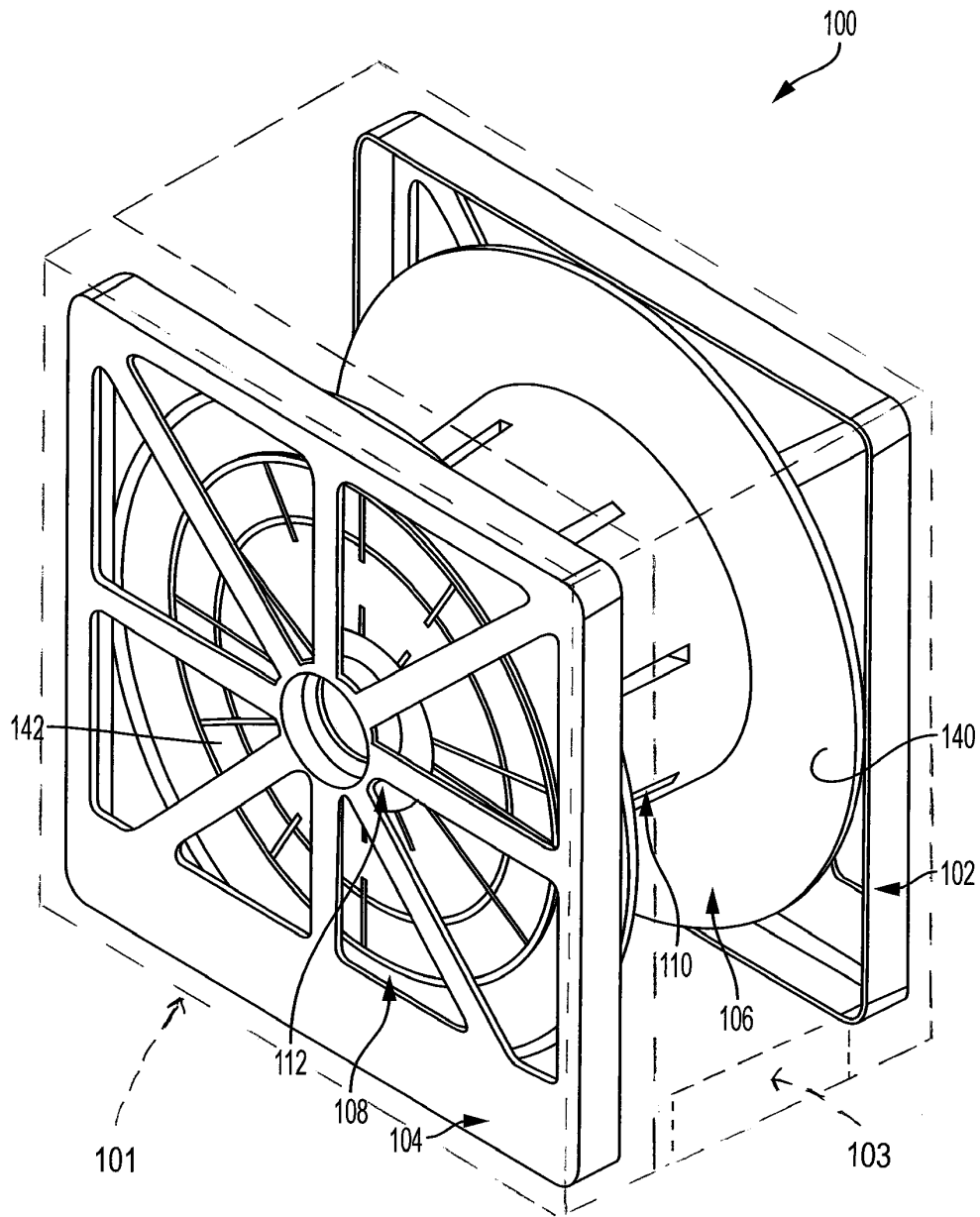
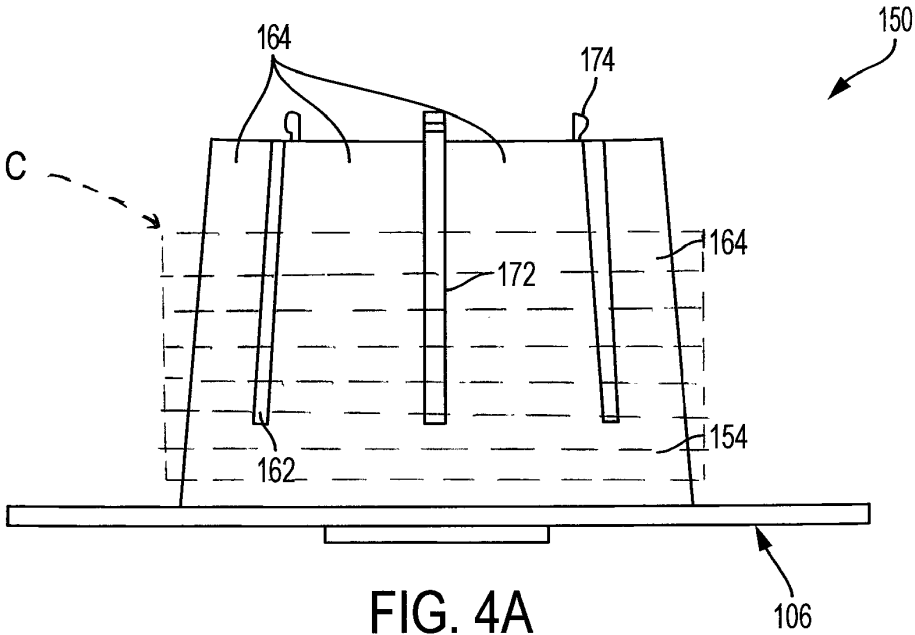


FIG. 1

REPLACEMENT SHEET



AMENDMENTS TO THE CLAIMS

1. (Original) A method of installing cable on a cable reel, comprising the steps of:

providing a cable reel that includes first and second opposing flanges, the first flange having a first hub portion and the second flange having a second hub portion, the first hub portion having one or more flexible segments;

placing a cable coil over the first hub portion and on the first flange so that the first hub portion substantially extends through an inner diameter of the cable coil; and

expanding the one or more flexible segments by inserting the second hub portion inside of the first hub portion so that the one or more flexible segments engage the cable coil.

2. (Original) A method according to claim 1, further comprising the step of

prepacking the cable coil prior to the step of placing the cable coil over the first hub portion.

3. (Original) A method according to claim 2, wherein

the cable coil is prepacked by applying a shrink wrap or ties to the cable coil.

4. (Original) A method according to claim 1, further comprising the step of

securing the first and second hub portions together after the step of inserting the second hub portion inside of the first hub portion.

5. (Original) A method according to claim 4, wherein

the first and second hub portions are secured together by a snapping engagement.

6. (Original) A method according to claim 1, further comprising the steps of:
providing first and second support frames; and
rotatably coupling the first and second flanges to the first and second support frames,
respectively.
7. (Original) A method according to claim 6, wherein
the first and second flanges have a substantially disc shape; and
the first and second frames have a substantially square shape.
8. (Original) A method according to claim 1, wherein
the step of inserting the second hub portion into the first hub portion includes inserting a
truncated wall into a receiving area of an elongated wall of the first hub portion.
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)
13. (Cancelled)
14. (Cancelled)
15. (Cancelled)
16. (Cancelled)

17. (New) A method of installing a cable reel in a bag, comprising the steps of:

securing a first support frame to a base of a bag;

securing a second support frame to a cover of the bag;

placing a first flange on the first support frame, wherein the first flange includes a first hub portion;

placing a second flange on the second support frame, wherein the second flange includes a second hub portion, wherein either the first hub portion or the second hub portion includes an elongated annular wall having a receiving area and the other of the first hub portion and the second hub portion includes a truncated annular wall receivable in the receiving area; and

placing at least a portion of the truncated annular wall within the receiving area of the elongated annular wall.

18. (New) The method of claim 17, further comprising the step of placing a cable coil on the elongated annular wall.

19. (New) The method of claim 18, wherein the cable coil is arranged on a side thereof in the bag.

20. (New) The method of claim 17, further comprising the step of strapping the first support frame to the base of the bag and strapping the second support frame to the flap of the bag.

21. (New) The method of claim 17, wherein each of the first and second flanges has a central arbor opening.

22. (New) The method of claim 21, further comprising the step of fitting a middle support flange of each of the first and second supports frames into the central arbor opening of the first and second flanges, respectively.

23. (New) The method of claim 17, further comprising the step of dispensing cable of the cable coil through a payout opening in the bag.

AMENDMENTS TO THE SPECIFICATION

Please amend paragraph [0022] of the specification, as follows:

[0022] Referring to FIGS. 1-3, 4A, 4B, 5A, 5B, and 6-8, the present invention relates to a cable reel 100 that may be carried in a conventional shoulder bag or satchel, a cardboard or plastic box, and the like 101, with an opening 103 for easy payout of cable supported on the cable reel. The cable reel 100 according to an exemplary embodiment of the present invention is designed to provide easy installation of cable C, such as a cable coil, on the reel 100 and also prevents overpayout of the cable. Because the cable reel 100 is designed to be carried by an installer, it is preferable that the components of the cable reel 100 be formed of lighter weight materials, such as plastic. Some exemplary plastic materials include polyethylene, polypropylene, ABS or other polymer products.

Please amend paragraph [0034] of the specification, as follows:

[0034] To install the cable on the cable reel 100, the cable coil C is placed over the first hub portion 150 of the hub member 110 and on the first flange 106 so that the first hub portion 150 extends through the inner diameter of the cable coil. The cable coil C may be prepacked in a plastic shrink wrap or with tie wraps or combination of both without any external structure to support that coil. Next the second hub portion 152 is inserted inside of the first hub portion 150 to frictionally engage the same and expand the flexible segments 164, thereby forcing the flexible segments 164 to engage the inner diameter of the cable coil. The locking tabs 174 are then inserted inside of the slots 176 on the second flange 108 to hold two flanges and hub portions together.

Doc Code: DIST.E.FILE Document Description: Electronic Terminal Disclaimer - Filed		PTO/SB/26 U.S. Patent and Trademark Office Department of Commerce	
Electronic Petition Request	TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT		
Application Number	15833091		
Filing Date	06-Dec-2017		
First Named Inventor	Rakesh Thakare		
Attorney Docket Number	111429.00339		
Title of Invention	METHOD OF INSTALLING CABLE ON CABLE REEL		
<input checked="" type="checkbox"/> Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action <input checked="" type="checkbox"/> This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.			
Owner		Percent Interest	
Amphenol Corporation		100%	
<p>The owner(s) with percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of prior patent number(s)</p> <p>9862566</p> <p>as the term of said prior patent is presently shortened by any terminal disclaimer. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.</p> <p>In making the above disclaimer, the owner does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the prior patent, "as the term of said prior patent is presently shortened by any terminal disclaimer," in the event that said prior patent later:</p> <ul style="list-style-type: none"> - expires for failure to pay a maintenance fee; - is held unenforceable; - is found invalid by a court of competent jurisdiction; - is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321; - has all claims canceled by a reexamination certificate; - is reissued; or - is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer. <p><input checked="" type="radio"/> Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.</p>			

<input type="radio"/> I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.	
Applicant claims the following fee status: <input type="radio"/> Small Entity <input type="radio"/> Micro Entity <input checked="" type="radio"/> Regular Undiscounted	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.	
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am: <input checked="" type="radio"/> An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application Registration Number <u>46510</u> <input type="radio"/> A sole inventor <input type="radio"/> A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application <input type="radio"/> A joint inventor; all of whom are signing this request	
Signature	/Tara L. Marcus/
Name	Tara L. Marcus

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
 Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

Electronic Patent Application Fee Transmittal				
Application Number:		15833091		
Filing Date:		06-Dec-2017		
Title of Invention:		METHOD OF INSTALLING CABLE ON CABLE REEL		
First Named Inventor/Applicant Name:		Rakesh Thakare		
Filer:		Tara Lynette Laster Hoffman/Cheryl de Lopez		
Attorney Docket Number:		111429.00339		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	160	160
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				160

Doc Code: DISQ.E.FILE

Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 15833091

Filing Date: 06-Dec-2017

Applicant/Patent under Reexamination: Thakare

Electronic Terminal Disclaimer filed on October 14, 2019

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Acknowledgement Receipt	
EFS ID:	37448872
Application Number:	15833091
International Application Number:	
Confirmation Number:	1883
Title of Invention:	METHOD OF INSTALLING CABLE ON CABLE REEL
First Named Inventor/Applicant Name:	Rakesh Thakare
Customer Number:	27557
Filer:	Tara Lynette Laster Hoffman/Cheryl de Lopez
Filer Authorized By:	Tara Lynette Laster Hoffman
Attorney Docket Number:	111429.00339
Receipt Date:	14-OCT-2019
Filing Date:	06-DEC-2017
Time Stamp:	16:12:26
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$160
RAM confirmation Number	E20190DG12239238
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Terminal Disclaimer-Filed (Electronic)	eTerminal-Disclaimer.pdf	33345	no	2
			e73013cc57d1085c3af1f9e47efc0a1c8b2be95f		
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30635	no	2
			d3d6fa1f5d80517660d65a99bb42d045968dfe7f		
Warnings:					
Information:					
Total Files Size (in bytes):			63980		
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>					

AMENDMENTS TO THE DRAWINGS

Please replace original Figs. 1 and 4A with the revised figures in the attached Replacement Drawings Sheets.

Attachment: Replacement Sheets (Figs. 1 and 4A; two sheets)

REMARKS

Favorable reconsideration of the present application, in view of the above amendments and following remarks, is respectfully solicited.

By the present amendment, claims 9-16 are cancelled and claims 17-23 are added. Claims 1-8 and 17-23 remain pending with claims 1 and 17 being independent. No new matter is added.

Objections to the Drawings

In the Office Action, the drawings are objected to for failing to show some claimed features, such as a bag or cable coil that is shrink wrapped or tied, as claimed. In response, Applicant submits two Replacement Drawing Sheets that include replacement Figs. 1 and 4A, respectively. Replacement Fig. 1 shows an exemplary bag 101 (that has a cover and base) in dashed lines and Replacement Fig. 4A shows an exemplary cable coil C. Also, Applicant notes that 35 U.S.C. § 113 requires drawings only where necessary for understanding the subject matter being claimed. Applicant submits that one skilled in this art would understand prepackaging a cable coil in shrink wrap or with ties. In view of these replacement figures, Applicant respectfully requests reconsideration and withdrawal of the objections to the drawings.

Double Patenting Rejection

In the Office Action, claims 1-8 stand rejected under non-statutory double patenting in view of parent U.S. Patent No 9,862,566. In response, an appropriate Terminal Disclaimer is submitted herewith. Therefore, Applicant respectfully requests reconsideration and withdrawal of the rejection of claims 1-8 under non-statutory double patenting.

New Claims 17-23

By the present amendment, new independent claim 17 and dependent claims 18-23 are added. Support for new claims 17-23 may be found throughout Applicant's disclosure, such as in

paragraphs [0022], [0023], [0034] and [0035] and Figs. 1-5B. Applicant submits that the method of new claim 17 is not taught, suggest, or rendered obvious by the prior art of record.

Conclusion

In view of the above, Applicant believes the pending application is in condition for allowance.

The Director is hereby authorized to charge any deficiency or credit any overpayment in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 23-2185, under Order No. 111429.00339.

Dated: October 14, 2019

Respectfully submitted,

Electronic signature: /Tara L. Marcus
Tara L. Marcus
Registration No.: 46,510
BLANK ROME LLP
1825 Eye Street, NW
Washington, DC 20006-5403
(202) 420-2200
Attorney for Applicant

Attachments

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875				Application or Docket Number 15/833,091		Filing Date 12/06/2017		<input type="checkbox"/> To be Mailed		
ENTITY: <input checked="" type="checkbox"/> LARGE <input type="checkbox"/> SMALL <input type="checkbox"/> MICRO										
APPLICATION AS FILED - PART I										
		(Column 1)	(Column 2)							
FOR		NUMBER FILED	NUMBER EXTRA	RATE (\$)		FEE (\$)				
<input type="checkbox"/> BASIC FEE (37 CFR 1.16(a), (b), or (c))		N/A	N/A	N/A						
<input type="checkbox"/> SEARCH FEE (37 CFR 1.16(k), (l), or (m))		N/A	N/A	N/A						
<input type="checkbox"/> EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))		N/A	N/A	N/A						
TOTAL CLAIMS (37 CFR 1.16(j))		minus 20 =	*	x \$80 =						
INDEPENDENT CLAIMS (37 CFR 1.16(h))		minus 3 =	*	x \$420 =						
<input type="checkbox"/> APPLICATION SIZE FEE (37 CFR 1.16(s))		If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).								
<input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))										
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL						
APPLICATION AS AMENDED - PART II										
		(Column 1)	(Column 2)	(Column 3)						
AMENDMENT	10/14/2019	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)			
	Total (37 CFR 1.16(i))	* 15	Minus	** 20	= 0	x \$100 =		0		
	Independent (37 CFR 1.16(h))	* 2	Minus	*** 3	= 0	x \$460 =		0		
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))									
	<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))									
					TOTAL ADD'L FEE		0			
AMENDMENT		(Column 1)	(Column 2)	(Column 3)						
		CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)		ADDITIONAL FEE (\$)			
	Total (37 CFR 1.16(i))	*	Minus	**	=	x \$0 =				
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x \$0 =				
	<input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))									
<input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))										
					TOTAL ADD'L FEE					
* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.					LIE					
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".					/TRACEY M YOUNG/					
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".										
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.										

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/833,091	12/06/2017	Rakesh Thakare	111429.00339

CONFIRMATION NO. 1883

POA ACCEPTANCE LETTER

27557
BLANK ROME LLP
1825 Eye Street NW
WASHINGTON, DC 20006-5403
UNITED STATES OF AMERICA



Date Mailed: 09/18/2019

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 09/12/2019.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/snguyen/

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B or equivalent) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5. If the Power of Attorney by Applicant form is not accompanied by this transmittal form or an equivalent, the Power of Attorney will not be recognized in the application.

Application Number	15/833,091
Filing Date	December 6, 2017
First Named Inventor	Rakesh Thakare
Title	METHOD OF INSTALLING CABLE ON CABLE REEL
Art Unit	3654
Examiner Name	W. E. Dondero
Attorney Docket Number	111429.00339

SIGNATURE of Applicant or Patent Practitioner

Signature	/Tara L. Marcus/	Date	September 12, 2019
Name	Tara L. Marcus	Telephone	(202) 772-5957
Registration Number	46,510		

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications.



*Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒ Practitioners associated with the Customer Number: 27557

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒ The address associated with Customer Number: 27557

OR

<input type="checkbox"/> Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone			Email

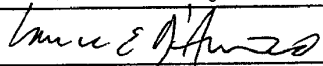
Assignee Name and Address:

Amphenol Corporation
358 Hall Avenue
Wallingford, Connecticut 06492

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of the practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	November 22, 2016
Name	Lance D'Amico, Esq.		
Title	Vice President, Secretary and General Counsel, Amphenol Corporation		

Electronic Acknowledgement Receipt	
EFS ID:	37147585
Application Number:	15833091
International Application Number:	
Confirmation Number:	1883
Title of Invention:	METHOD OF INSTALLING CABLE ON CABLE REEL
First Named Inventor/Applicant Name:	Rakesh Thakare
Customer Number:	27557
Filer:	Tara Lynette Laster Hoffman/Cheryl de Lopez
Filer Authorized By:	Tara Lynette Laster Hoffman
Attorney Docket Number:	111429.00339
Receipt Date:	12-SEP-2019
Filing Date:	06-DEC-2017
Time Stamp:	15:07:22
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no				
File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	poa339.pdf	92103 b90790279680d6679a7fbf50005dc805666 dddb3	no	2
Warnings:					

Information:	
Total Files Size (in bytes):	92103
<p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><u>New Applications Under 35 U.S.C. 111</u> If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><u>National Stage of an International Application under 35 U.S.C. 371</u> If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><u>New International Application Filed with the USPTO as a Receiving Office</u> If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p>	



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/833,091	12/06/2017	Rakesh Thakare	111429.00339	1883
27557	7590	05/14/2019	EXAMINER	
BLANK ROME LLP 1825 Eye Street NW WASHINGTON, DC 20006-5403			DONDERO, WILLIAM E	
			ART UNIT	PAPER NUMBER
			3654	
			NOTIFICATION DATE	DELIVERY MODE
			05/14/2019	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

WashingtonDocketing@blankrome.com

DETAILED ACTION

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the prepacking (Claims 2 and 13), shrink wrap (Claims 3 and 14), ties (Claim 3 and 14), base (Claim 12), bag (Claim 12), box (Claim 12), cover (Claim 12), must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

In the event the determination of the status of the application as subject to AIA 35 U.S.C. 102 and 103 (or as subject to pre-AIA 35 U.S.C. 102 and 103) is incorrect, any correction of the statutory basis for the rejection will not be considered a new ground of rejection if the prior art relied upon, and the rationale supporting the rejection, would be the same under either status.

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 9 and 15-16 is/are rejected under 35 U.S.C. 103 as being unpatentable over Allwood (US-20120153069) in view of Troitzsch et al. (US-20140312159). Regarding Claims 9 and 15-16, Allwood discloses a method of installing cable on a cable reel, comprising the steps of: providing a cable reel 10 that includes first 16a and second 16b frames that rotatably support first 30a and second 30b opposing flanges, respectively, a first hub portion 28a and a second hub portion 28b; retaining a cable coil between the first and second frames such that the cable coil rotates with respect to the first and second frames, thereby allowing payout of the cable of the cable coil (Figures 1-13). Allwood does not expressly disclose the first flange having the first hub portion and the second flange having the second hub portion, the first hub portion having an elongated wall that defines a receiving area for a truncated wall of the second hub portion; placing a cable coil over the first hub portion and on the first flange so that the first hub portion substantially extends through an inner diameter of the cable coil; and inserting the truncated wall of the second hub portion inside of the receiving area of the first hub portion, thereby retaining the cable coil between the first and second frames such that the cable coil rotates with respect to the first and second frames, thereby allowing payout of the cable of the cable coil; the step of securing the first and second hub portions together after the step of inserting the second hub portion

inside of the first hub portion, wherein the first and second hub portions are secured together by a snapping engagement.

However, Troitzsch et al. teaches a method of installing cable on a cable reel, comprising the steps of: providing a cable reel that includes first 4 and second 5 opposing flanges, respectively, the first flange having a first hub portion 1 and the second flange having a second hub portion 30, the first hub portion having an elongated wall (wall of 1) that defines a receiving area (inside 1) for a truncated wall (wall of 30) of the second hub portion; and inserting the truncated wall of the second hub portion inside of the receiving area of the first hub portion (see particularly Figure 10); the step of securing the first and second hub portions together after the step of inserting the second hub portion inside of the first hub portion, wherein the first and second hub portions are secured together by a snapping engagement (via 10,22, see particularly Figure 10) (Figures 1-13). Because both Allwood and Troitzsch et al. teach collapsible spools, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to substitute the spool of Troitzsch et al. for the spool of Allwood to achieve the predictable result of reducing the amount of parts in the spool and thereby the amount of time to assemble the spool. Further, it would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to place a cable coil over the first hub portion and on the first flange so that the first hub portion substantially extends through an inner diameter of the cable coil thereby retaining the cable coil between the first and second frames such that the cable coil rotates with respect to the first and second frames, thereby allowing payout of the cable of the cable coil as it would have been the quickest and easiest what to put a premanufactured coil of wire on the device for dispensing the wire.

Claim 10 is/are rejected under 35 U.S.C. 103 as being unpatentable over Allwood (US-20120153069) in view of Troitzsch et al. (US-20140312159) as applied to claims 9 above, and further in

view of Galindo Gonzalez et al. (US-20150321876). Regarding Claim 10, Allwood in view of Troitzsch et al. does not expressly disclose the step of providing a braking mechanism on the cable reel to prevent overpayout of the cable of the cable coil.

However, Galindo Gonzalez et al. teach the step of providing a braking mechanism 902,902 on the cable reel to prevent overpayout of the cable of the cable coil (see paragraph [0073], lines 1-4) (Figures 1-23). It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to add a braking mechanism of Galindo Gonzalez et al. to the method of Allwood in view of Troitzsch et al. to control over-spin as taught by Galindo Gonzalez et al. at paragraph [0073], lines 1-4.

Claim 12 is/are rejected under 35 U.S.C. 103 as being unpatentable over Allwood (US-20120153069) in view of Troitzsch et al. (US-20140312159) as applied to claim 9 above, and further in view of Galgano et al. (US-8016222). Regarding Claim 12, Allwood in view of Troitzsch et al. does not expressly disclose the step of securing the first support frame to a base of a bag or box and securing the second support frame to a cover of the bag or box prior to the step of placing a cable coil over the first hub portion.

However, Galgano et al. teaches the step of securing a first support frame 200 to a box 10 and securing a second support frame 204 to the box (see particularly Figures 1-2) (Figures 1-12). It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to secure the first support frame to any part of a box, including the base, and the second support frame to any part of a box, including the cover, as taught by Galgano et al. prior to the step of placing a cable coil over the first hub portion to protect the cable from any dust, dirt, and/or debris in the surrounding environment.

Claims 13-14 is/are rejected under 35 U.S.C. 103 as being unpatentable over Allwood (US-20120153069) in view of Troitzsch et al. (US-20140312159) as applied to claim 9 above, and further in view of Sycko (US-20070018031). Regarding Claims 13-14, Allwood in view of Troitzsch et al. does not expressly disclose the step of prepacking the cable coil prior to the step of placing the cable coil over the first hub portion, wherein the cable coil is prepacked by applying a shrink wrap or ties to the cable coil.

However, Sycko teaches the step of prepacking the cable coil prior to the step of placing the cable coil over the first hub portion, wherein the cable coil is prepacked by applying a shrink wrap or ties to the cable coil (see paragraph [0004], lines 7-11) (Figures 1-6). It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to prepack the coil prior to placing it over the first hub portion with ties and/or shrink wrap to prevent it from unwinding until the user is ready to dispense it as taught by Sycko in paragraph [0004], lines 7-11.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the “right to exclude” granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on nonstatutory double patenting provided the reference application or patent either is shown to be commonly owned with the examined application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement. See MPEP § 717.02 for applications subject to examination under the first inventor to file provisions of the AIA as explained in MPEP § 2159. See MPEP §§ 706.02(l)(1) - 706.02(l)(3) for applications not subject to examination under the first inventor to file provisions of the AIA. A terminal disclaimer must be signed in compliance with 37 CFR 1.321(b).

The USPTO Internet website contains terminal disclaimer forms which may be used. Please visit www.uspto.gov/patent/patents-forms. The filing date of the application in which the form is filed determines what form (e.g., PTO/SB/25, PTO/SB/26, PTO/AIA/25, or PTO/AIA/26) should be used. A web-based eTerminal Disclaimer may be filled out completely online using web-screens. An eTerminal Disclaimer that meets all requirements is auto-processed and approved immediately upon submission. For more information about eTerminal Disclaimers, refer to www.uspto.gov/patents/process/file/efs/guidance/eTD-info-I.jsp.

Claims 1, 4-6, 8-9, 11, and 15-16 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-3 of U.S. Patent No. 9,862,566 (referred to hereinafter as '566). Although the claims at issue are not identical, they are not patentably distinct from each other because Claims 1-3 of '566 are narrower in scope than instant claims 1, 4-6, 8-9, 11, and 15-16. Therefore, Claims 1-3 of '566 include all the limitations of instant Claims 1, 4-6, 8-9, 11, and 15-16 with additional limitations, such as the first hub having a plurality of flexible segments. Despite the additional limitations, Claims 1-3 render instant claims 1, 4-6, 8-9, 11, and 15-16 as unpatentable under double patenting.

Claims 2-3 and 13-14 rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-3 of U.S. Patent No. 9,862,566 (referred to hereinafter as '566) in view of Sycko (US-20070018031). Regarding Claims 2-3 and 13-14, claims 1-3 of '566 does not expressly disclose the step of prepacking the cable coil prior to the step of placing the cable coil over the first hub portion, wherein the cable coil is prepacked by applying a shrink wrap or ties to the cable coil.

However, Sycko teaches the step of prepacking the cable coil prior to the step of placing the cable coil over the first hub portion, wherein the cable coil is prepacked by applying a shrink wrap or ties to the cable coil (see paragraph [0004], lines 7-11) (Figures 1-6). It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to prepack the coil prior to placing it over the first hub portion with ties and/or shrink wrap to prevent it from unwinding until the user is ready to dispense it as taught by Sycko in paragraph [0004], lines 7-11.

Claim 7 is rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-3 of U.S. Patent No. 9,862,566 (referred to hereinafter as '566) in view of Allwood (US-20120153069). Regarding Claim 7, claims 1-3 of '566 does not expressly disclose the first and second flanges have a substantially disc shape; and the first and second frames have a substantially square shape.

However, Allwood teaches first 30a and second 30b flanges have a substantially disc shape; and first 16a and second 16b frames have a substantially square shape (Figures 1-13). It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to make the flanges circular and the frames square to allow the spool to be rolled when not in the frame and to use the frames to support the spool in a stationary position for dispensing.

Claim 10 is rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-3 of U.S. Patent No. 9,862,566 (referred to hereinafter as '566) in view of Galindo Gonzalez et al. (US-20150321876). Regarding Claim 10, claims 1-3 of '566 do not expressly disclose the step of providing a braking mechanism on the cable reel to prevent overpayout of the cable of the cable coil.

However, Galindo Gonzalez et al. teach the step of providing a braking mechanism 902,902 on the cable reel to prevent overpayout of the cable of the cable coil (see paragraph [0073], lines 1-4) (Figures 1-23). It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to add a braking mechanism of Galindo Gonzalez et al. to the method of claims 1-3 of '566 to control over-spin as taught by Galindo Gonzalez et al. at paragraph [0073], lines 1-4.

Claim 12 is rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-3 of U.S. Patent No. 9,862,566 (referred to hereinafter as '566) in view of Galgano et al. (US-8016222). Regarding Claim 12, claims 1-3 of '566 does not expressly disclose the step of securing the first support frame to a base of a bag or box and securing the second support frame to a cover of the bag or box prior to the step of placing a cable coil over the first hub portion.

However, Galgano et al. teaches the step of securing a first support frame 200 to a box 10 and securing a second support frame 204 to the box (see particularly Figures 1-2) (Figures 1-12). It would have been obvious to one of ordinary skill in the art before the effective filing date of the claimed invention to secure the first support frame to any part of a box, including the base, and the second support frame to any part of a box, including the cover, as taught by Galgano et al. prior to the step of placing a cable coil over the first hub portion to protect the cable from any dust, dirt, and/or debris in the surrounding environment.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIAM E DONDERO whose telephone number is (571)272-5590. The examiner can normally be reached on Monday-Friday 7:30 am - 5 pm ET.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael R Mansen can be reached on 571-272-6608. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/WILLIAM E DONDERO/
Primary Examiner, Art Unit 3654

<i>Notice of References Cited</i>	Application/Control No. 15/833,091	Applicant(s)/Patent Under Reexamination Thakare et al.	
	Examiner WILLIAM E DONDERO	Art Unit 3654	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Code-Number-Kind Code	Country	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-9862566-B2		01-2018	Thakare; Rakesh	B65H75/22	1/1
*	B	US-20120153069-A1		06-2012	Allwood; Brent David	B65H49/32	242/607
*	C	US-20150321876-A1		11-2015	Galindo Gonzalez; Juan Alberto	B65H75/241	242/611
*	D	US-8016222-B2		09-2011	Galgano; Richard	B62B1/14	242/403
*	E	US-20070018031-A1		01-2007	Sycko; Anthony T.	B65H49/305	242/597.4
	F						
	G						
	H						
	I						
	J						
	K						
	L						
	M						

FOREIGN PATENT DOCUMENTS

*		Document Number Code-Number-Kind Code	Country	Date MM-YYYY	Country	Name	CPC Classification
	N						
	O						
	P						
	Q						
	R						
	S						
	T						

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	


*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office
PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20190509

<i>Search Notes</i> 	Application/Control No. 15/833,091	Applicant(s)/Patent Under Reexamination Thakare et al.
	Examiner WILLIAM E DONDERO	Art Unit 3654

CPC - Searched*		
Symbol	Date	Examiner
B65H 54/103,12	05/09/2019	/WED/
B65H 75/14,22,24,245	05/09/2019	/WED/

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
EAST Text Search - see attached printout	05/09/2019	/WED/
Inventor Name Search	05/09/2019	/WED/
Applicant/Assignee Search	05/09/2019	/WED/
Updated Search for parent applications 15/433,789 and 14/634,007	05/09/2019	/WED/

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S47	1	"15433789"	USPAT	OR	ON	2019/05/08 13:25
S48	3	"14634007"	USPAT	OR	ON	2019/05/08 13:26
S51	101	((("THAKARE") near3 ("RAKESH")) OR ((("SONG") near3 ("Caichun")) OR ((("BOWEN") near3 ("Phillip")) OR ((("BRYANT") near3 ("Marvin")) OR ((("BOUCHER") near3 ("Paul")) OR ((("HOLT") near3 ("Barry")))).INV.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2019/05/08 13:50
S50	596	((("AMPHENOL") near3 ("CORPORATION"))).AS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 13:50
S49	244	((("AMPHENOL") near3 ("CORPORATION"))).AANM.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 13:50
S52	237	((("THAKARE") near3 ("RAKESH")) OR ((("SONG") near3 ("Caichun")) OR ((("BOWEN") near3 ("Phillip")) OR ((("BRYANT") near3 ("Marvin")) OR ((("BOUCHER") near3 ("Paul")) OR ((("HOLT") near3 ("Barry")))).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 13:51
S54	35	("1990135" "20060157366" "20100320309" "20150312159" "2033578" "2400417" "2965331" "3693784" "3836093" "4650073" "4667896" "5139210" "5810283" "6145780" "6234421" "6328238" "7140598" "7204452" "7891601" "7938357" "8016222" "8230996" "8251212" "8366126" "8387909" "8424795" "9637343" "D641161" "D641162" "D641163" "D686907").PN. OR ("9873588").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2019/05/08 13:57
S53	1	"15433785"	USPAT	OR	ON	2019/05/08 13:57
S58	1012	B65H75/24.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO;	OR	ON	2019/05/08 14:04

			DERWENT; IBM_TDB			
S57	3202	B65H75/22.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 14:04
S56	150	B65H54/12.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 14:04
S55	409	B65H54/103.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 14:04
S60	795	B65H75/245.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 14:05
S59	5551	B65H75/14.cpc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 14:05
S61	10107	S55 or S56 or S57 or S58 or S59 or S60	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 14:06
S62	315	S61 and (prepack\$3 or (shrink near wrap) or tie)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 14:07
S63	9	S61 and (prepack\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 14:09
S64	490499	B65H\$/\$.cpc.	US-PGPUB; USPAT; USOCR;	OR	ON	2019/05/08 14:13

			FPRS; EPO; JPO; DERWENT; IBM_TDB			
S65	20	S64 and (prepack\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 14:24
S66	337	S64 and (coil with ((shrink near wrap) or tie))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 14:25
S68	5	S67 and brak\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 14:35
S67	9	(US-20140312159-\$ or US-20170158455-\$ or US-20170158454-\$ or US-20160251196-\$ or US-20130284851-\$ or US-20090152390-\$ or US-20070018031-\$).did. or (US-9695008-\$ or US-9862566-\$).did.	US-PGPUB; USPAT	OR	ON	2019/05/08 14:35
S69	267	S61 and brak\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 14:36
S70	12	S69 and (overspin or overrotation or overpayout)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2019/05/08 14:40

EAST Search History (Interference)

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5/ 9/ 2019 9:04:52 AM**C:\Users\wdonero\Documents\EAST\Workspaces\15833091.wsp**

Used in Lieu of PTO/SB/08A/B
(Based on PTO 10-07 version)

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Rakesh Thakare
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	111429.00339

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US-2,033,578	03-10-1936	Kittel	
	AB	US-1,990,135	02-05-1935	Sato	
	AC	US-2,400,417	05-14-1946	Hickey	
	AD	US-2,965,331	12-20-1960	Nagy	
	AE	US-3,693,784	09-26-1972	Holmes	
	AF	US-3,836,093	09-17-1974	Mozina et al.	
	AG	US-4,650,073	03-17-1987	Young	
	AH	US-4,667,896	05-26-1987	Frey et al.	
	AI	US-5,139,210	08-18-1992	Schaffer	
	AJ	US-5,810,283	09-22-1998	Shea	
	AK	US-6,145,780	11-14-2000	Fontana	
	AL	US-6,234,421	05-22-2001	Cox et al.	
	AM	US-6,328,238	12-11-2001	Chism	
	AN	US-2006/0157366-A1	07-20-2006	Jamie	
	AO	US-7,140,598	11-28-2006	Verakis et al.	
	AP	US-7,891,601	02-22-2011	Higashisaka et al.	
	AQ	US-7,938,357	05-10-2011	Johanson et al.	
	AR	US-D641161	07-12-2011	Houston et al.	
	AS	US-D641162	07-12-2011	Houston et al.	
	AT	US-D641163	07-12-2011	Houston et al.	
	AU	US-8,230,996	07-31-2012	Cummings et al.	
	AV	US-8,251,212	08-28-2012	Dunlap	
	AW	US-8,424,795	04-23-2013	Galgano et al.	
	AX	US-D686907	07-30-2013	Chastain et al.	
	AY	US-2015/0312159-A1	10-29-2015	Ertugay et al.	
	AZ	US-20140312159-A1	10-23-2014	Troitzsch et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA**	EP-0922003 (A1)-A1	06-16-1999	Italiana Conduttori S R L		<input checked="" type="checkbox"/>

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ** CITE NO.: Those document(s) which are marked with an double asterisk (**) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filing date under 35 U.S.C. 120. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/WILLIAM E DONDERO/	Date Considered	05/09/2019
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111429.00100/106397884

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /W.E.D/

Used in Lieu of PTO/SB/08A/B
(Based on PTO 10-07 version)

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Rakesh Thakare
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	111429.00339

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/WILLIAM E DONDERO/	Date Considered	05/09/2019
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111429.00100/106397884

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/833,091	12/06/2017	Rakesh Thakare	111429.00339

CONFIRMATION NO. 1883

27557

BLANK ROME LLP

1825 Eye Street NW

WASHINGTON, DC 20006-5403

PUBLICATION NOTICE



OC000000098579323

Title:METHOD OF INSTALLING CABLE ON CABLE REEL

Publication No.US-2018-0093851-A1

Publication Date:04/05/2018

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently <https://portal.uspto.gov/pair/PublicPair>. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875						Application or Docket Number 15/833,091				
APPLICATION AS FILED - PART I										
(Column 1)		(Column 2)		SMALL ENTITY		OTHER THAN SMALL ENTITY				
FOR	NUMBER FILED	NUMBER EXTRA	RATE(\$)	FEE(\$)		RATE(\$)	FEE(\$)			
BASIC FEE <small>(37 CFR 1.16(a), (b), or (c))</small>	N/A	N/A	N/A			N/A	280			
SEARCH FEE <small>(37 CFR 1.16(k), (l), or (m))</small>	N/A	N/A	N/A			N/A	600			
EXAMINATION FEE <small>(37 CFR 1.16(o), (p), or (q))</small>	N/A	N/A	N/A			N/A	720			
TOTAL CLAIMS <small>(37 CFR 1.16(j))</small>	16	minus 20 = *			OR	x 80 =	0.00			
INDEPENDENT CLAIMS <small>(37 CFR 1.16(h))</small>	2	minus 3 = *			OR	x 420 =	0.00			
APPLICATION SIZE FEE <small>(37 CFR 1.16(s))</small>	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$310 (\$155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00			
				TOTAL		TOTAL	1600			
* If the difference in column 1 is less than zero, enter "0" in column 2.										
APPLICATION AS AMENDED - PART II										
(Column 1)		(Column 2)		(Column 3)		SMALL ENTITY		OTHER THAN SMALL ENTITY		
AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total <small>(37 CFR 1.16(i))</small>	*	Minus	**	=	x	=	OR	x	=
	Independent <small>(37 CFR 1.16(h))</small>	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE(\$)	ADDITIONAL FEE(\$)		RATE(\$)	ADDITIONAL FEE(\$)
	Total <small>(37 CFR 1.16(i))</small>	*	Minus	**	=	x	=	OR	x	=
	Independent <small>(37 CFR 1.16(h))</small>	*	Minus	***	=	x	=	OR	x	=
	Application Size Fee (37 CFR 1.16(s))							OR		
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
15/833,091	12/06/2017	3654	1600	111429.00339	16	2

CONFIRMATION NO. 1883

FILING RECEIPT



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27557
BLANK ROME LLP
1825 Eye Street NW
WASHINGTON, DC 20006-5403

Date Mailed: 12/27/2017

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

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Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 15/433,789 02/15/2017 PAT 9862566
which is a DIV of 14/634,007 02/27/2015 PAT 9695008

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/833,091**

Projected Publication Date: 04/05/2018

Non-Publication Request: No

Early Publication Request: No
Title

METHOD OF INSTALLING CABLE ON CABLE REEL

Preliminary Class

242

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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UTILITY PATENT APPLICATION TRANSMITTAL		Attorney Docket No. 111429.00339	
		First Named Inventor Rakesh Thakare	
		Title	METHOD OF INSTALLING CABLE ON CABLE REEL
(Only for new nonprovisional applications under 37 CFR 1.53(b))		Express Mail Label No. _____	

APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i>	ADDRESS TO: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450		
1. <input checked="" type="checkbox"/> Fee Transmittal Form (PTO/SB/17 or equivalent) 2. <input type="checkbox"/> Applicant asserts small entity status. See 37 CFR 1.27 3. <input type="checkbox"/> Applicant certifies micro entity status. See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent. 4. <input checked="" type="checkbox"/> Specification [Total Pages <u>9</u>] Both the claims and abstract must start on a new page. (See MPEP § 608.01(a) for information on the preferred arrangement) 5. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <u>10</u>] 6. Inventor's Oath or Declaration [Total Pages <u>6</u>] (including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e)) a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> A copy from a prior application (37 CFR 1.63(d)) 7. <input checked="" type="checkbox"/> Application Data Sheet * See note below. See 37 CFR 1.76 (PTO/AIA/14 or equivalent) 8. CD-ROM or CD-R in duplicate, large table, or Computer Program (Appendix) <input type="checkbox"/> Landscape Table on CD 9. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a. – c. are required) a. <input type="checkbox"/> Computer Readable Form (CRF) b. <input type="checkbox"/> Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> Paper c. <input type="checkbox"/> Statements verifying identity of above copies	ACCOMPANYING APPLICATION PAPERS 10. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) Name of Assignee <div style="border: 1px solid black; height: 30px; width: 100%;"></div> 11. <input type="checkbox"/> 37 CFR 3.73(c) Statement <input type="checkbox"/> Power of Attorney (when there is an assignee) 12. <input type="checkbox"/> English Translation Document (if applicable) 13. <input checked="" type="checkbox"/> Information Disclosure Statement (PTO/SB/08 or PTO-1449) <input type="checkbox"/> Copies of citations attached 14. <input type="checkbox"/> Preliminary Amendment 15. <input type="checkbox"/> Return Receipt Postcard (MPEP § 503) (Should be specifically itemized) 16. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) 17. <input type="checkbox"/> Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent. 18. <input type="checkbox"/> Other: <div style="border: 1px solid black; height: 40px; width: 100%;"></div>		
<p>*Note: (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 must be included in an Application Data Sheet (ADS). (2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.48(b).</p>			
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			46,510

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ABSTRACT OF THE DISCLOSURE

A method of installing cable on a cable reel that has the steps of providing a cable reel that includes first and second opposing flanges where the first flange has a first hub portion and the second flange having a second hub portion and the first hub portion has one or more flexible segments; placing a cable coil over the first hub portion and on the first flange so that the first hub portion substantially extends through an inner diameter of the cable coil; and expanding the one or more flexible segments by inserting the second hub portion inside of the first hub portion so that the one or more flexible segments engage the cable coil.

WHAT IS CLAIMED IS:

1. A method of installing cable on a cable reel, comprising the steps of:

providing a cable reel that includes first and second opposing flanges, the first flange having a first hub portion and the second flange having a second hub portion, the first hub portion having one or more flexible segments;

placing a cable coil over the first hub portion and on the first flange so that the first hub portion substantially extends through an inner diameter of the cable coil; and

expanding the one or more flexible segments by inserting the second hub portion inside of the first hub portion so that the one or more flexible segments engage the cable coil.

2. A method according to claim 1, further comprising the step of

prepacking the cable coil prior to the step of placing the cable coil over the first hub portion.

3. A method according to claim 2, wherein

the cable coil is prepacked by applying a shrink wrap or ties to the cable coil.

4. A method according to claim 1, further comprising the step of

securing the first and second hub portions together after the step of inserting the second hub portion inside of the first hub portion.

5. A method according to claim 4, wherein
the first and second hub portions are secured together by a snapping engagement.
6. A method according to claim 1, further comprising the steps of:
providing first and second support frames; and
rotatably coupling the first and second flanges to the first and second support frames,
respectively.
7. A method according to claim 6, wherein
the first and second flanges have a substantially disc shape; and
the first and second frames have a substantially square shape.
8. A method according to claim 1, wherein
the step of inserting the second hub portion into the first hub portion includes inserting a
truncated wall into a receiving area of an elongated wall of the first hub portion.
9. A method of installing cable on a cable reel, comprising the steps of:
providing a cable reel that includes first and second frames that rotatably support first and
second opposing flanges, respectively, the first flange having a first hub portion and the second
flange having a second hub portion, the first hub portion having an elongated wall that defines a
receiving area for a truncated wall of the second hub portion;

placing a cable coil over the first hub portion and on the first flange so that the first hub portion substantially extends through an inner diameter of the cable coil; and

inserting the truncated wall of the second hub portion inside of the receiving area of the first hub portion, thereby retaining the cable coil between the first and second frames such that the cable coil rotates with respect to the first and second frames, thereby allowing payout of the cable of the cable coil.

10. A method according to claim 9, further comprising the step of

providing a braking mechanism on the cable reel to prevent overpayout of the cable of the cable coil.

11. A method according to claim 9, further comprising the step of

expanding one or more flexible segments of the elongated wall of the first hub portion when the second hub portion is inserted into the first hub portion so that the one or more flexible segments engage the cable coil.

12. A method according to claim 9, further comprising the step of

securing the first support frame to a base of a bag or box and securing the second support frame to a cover of the bag or box prior to the step of placing a cable coil over the first hub portion.

13. A method according to claim 9, further comprising the step of
prepacking the cable coil prior to the step of placing the cable coil over the first hub
portion.
14. A method according to claim 13, wherein
the cable coil is prepacked by applying a shrink wrap or ties to the cable coil.
15. A method according to claim 9, further comprising the step of
securing the first and second hub portions together after the step of inserting the second
hub portion inside of the first hub portion.
16. A method according to claim 15, wherein
the first and second hub portions are secured together by a snapping engagement.

METHOD OF INSTALLING CABLE ON CABLE REEL

RELATED APPLICATIONS

[0001] This application is a continuation of co-pending, commonly owned Application Serial No. 15/433,789, filed February 15, 2017, which is a Divisional of U.S. Application Serial No. 14/634,007, entitled Cable Reel, filed on February 27, 2015, the disclosure of each of which is incorporated herein by reference in its entirety.

FIELD OF THE INVENTION

[0002] The present invention relates to a cable reel and also to a method for installing cable on the cable reel preferably with a cable payoff braking mechanism.

BACKGROUND OF THE INVENTION

[0003] Cable installers are commonly required to carry cable to installation locations. The installers usually use some type of shoulder bag or other types of packing solutions with an opening for paying out the cable. These cables are often wound on a reel to form a cable coil and packaged in a box or bag for payout during installations. The installer may, however, payout too much cable if the installer pulls too hard on the cable.

[0004] Therefore, a need exists for a cable reel that allows for easy installation of cable in a bag or the like and that prevents overpayout of the cable.

SUMMARY OF THE INVENTION

[0005] Accordingly, the present invention may provide a cable reel that has first and second opposing flanges. The first flange has a first hub portion and the second flange has a second hub portion. The first and second hub portions are axially aligned and configured to mate

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with one another to support cable, such as a cable coil. The first hub portion includes an elongated wall that extends from the first flange. The elongated wall is sized to support the cable. The elongated wall defines an inner area that is configured to accept the second hub portion. The elongated wall includes a plurality of flexible segments. The second hub portion includes a truncated wall that is receivable in the inner area of the first hub portion. The truncated wall includes a tapered outer surface for engaging and expanding the plurality of flexible segments.

[0006] The present invention may also provide a cable reel that includes at least one support frame that has an outwardly extending braking gear member. The outwardly extending gear member is located off-center on the frame. A first flange has a central opening and a first hub portion that surrounds the central opening. The central opening has an internal braking gear member that engages the outwardly extending gear member of the frame, thereby rotatably coupling the at least one support frame and the first flange. A second flange opposes the first flange and has a second hub portion. The first and second hub portions are configured to mate with one another to support cable. The engagement of the gear members provides a friction for cable payoff.

[0007] The present invention may further provide a method of installing the cable, such as a cable coil, on a cable reel that includes the steps of providing a cable reel that includes first and second opposing flanges, the first flange having a first hub portion and the second flange having a second hub portion, the first hub portion being longer than the second hub portion, and the first hub portion having a plurality of flexible segments; placing a cable coil over the first hub portion and on the first flange so that the first hub portion extends through the cable coil; and inserting the second hub portion inside of the first hub portion, thereby expanding the flexible segments so that the flexible segments engage the cable coil.

[0008] The present invention may yet further provide a method of installing cable on a cable reel comprising the steps of providing a cable reel that includes first and second opposing flanges where the first flange has a first hub portion and the second flange having a second hub portion and the first hub portion has one or more flexible segments; placing a cable coil over the first hub portion and on the first flange so that the first hub portion substantially extends through an inner diameter of the cable coil; and expanding the one or more flexible segments by inserting the second hub portion inside of the first hub portion so that the one or more flexible segments engage the cable coil.

[0009] The present invention may also further provide a method of installing cable on a cable reel, comprising the steps of providing a cable reel that includes first and second frames that rotatably support first and second opposing flanges, respectively, where the first flange has a first hub portion and the second flange has a second hub portion and the first hub portion has an elongated wall that defines a receiving area for a truncated wall of the second hub portion; placing a cable coil over the first hub portion and on the first flange so that the first hub portion substantially extends through an inner diameter of the cable coil; and inserting the truncated wall of the second hub portion inside of the receiving area of the first hub portion, thereby retaining the cable coil between the first and second frames such that the cable coil rotates with respect to the first and second frames, thereby allowing payout of the cable of the cable coil.

[0010] Other objects, advantages and salient features of the invention will become apparent from the following detailed description, which, taken in conjunction with the annexed drawings, discloses a preferred embodiment of the present invention.

BRIEF DESCRIPTION OF THE DRAWINGS

[0011] A more complete appreciation of the invention and many of the attendant advantages thereof will be readily obtained as the same becomes better understood by reference to the following detailed description when considered in connection with the accompanying drawings, wherein:

[0012] FIG. 1 is a perspective view of a cable reel in accordance with an exemplary embodiment of the present invention, shown without a supporting bag or box;

[0013] FIG. 2 is a perspective view of a support frame of the cable reel illustrated in FIG. 1;

[0014] FIG. 3 is an elevational view of a flange of the cable reel illustrated in FIG. 1;

[0015] FIG 4A is a perspective view of a first hub portion of the cable reel illustrated in FIG. 1;

[0016] FIG. 4B is a partial perspective view of the first hub portion illustrated in FIG. 4A, showing the bottom hub in cross-section;

[0017] FIG. 5A is an elevational view of a second hub of the cable reel illustrated in FIG. 1;

[0018] FIG. 5B is a perspective view of the second hub of the cable reel illustrated in FIG. 5A;

[0019] FIG. 6 is an enlarged partial perspective view of the frame illustrated in FIG. 2, showing outer gears of the frame;

[0020] FIG. 7 is an enlarged partial side elevational view of the flange illustrated in FIG. 3, showing the inner gears of the flange; and

[0021] FIG. 8 is an enlarged side elevational view of the frame and the flange of the cable reel illustrated in FIG. 1, showing the inner and outer gears engaged.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0022] Referring to FIGS. 1-3, 4A, 4B, 5A, 5B, and 6-8, the present invention relates to a cable reel 100 that may be carried in a conventional shoulder bag or satchel, a cardboard or plastic box, and the like, with an opening for easy payout of cable supported on the cable reel. The cable reel 100 according to an exemplary embodiment of the present invention is designed to provide easy installation of cable, such as a cable coil, on the reel 100 and also prevents overpayout of the cable. Because the cable reel 100 is designed to be carried by an installer, it is preferable that the components of the cable reel 100 be formed of lighter weight materials, such as plastic. Some exemplary plastic materials include polyethylene, polypropylene, ABS or other polymer products.

[0023] As seen in FIG. 1, the cable reel 100 generally includes opposing support frames 102 and 104 that rotatably support first and second flanges 106 and 108 with a hub member 110 therebetween on which the cable is held. A braking mechanism 112 is preferably provided on the reel 100 between the support frames 102 and 104 of the flanges 106 and 108 to limit overpayout of the cable. The cable reel 100 may be inserted into and supported by the payout bag or box wherein the support frames 102 and 104 are attached, preferably removably attached, to the cover and base, respectively, of the bag.

[0024] As seen in FIGS. 2 and 6, each support frame 102 and 104 includes an outer frame portion 120 with one or more cross members 122 and a middle flange support 124. The outer frame portion 120 may have a substantially square geometry. The middle flange support 124 includes an annular extension 126 (FIG. 6) that supports a first part of the braking mechanism 112. The first part of the braking mechanism may be an outwardly extending gear member 128 that includes a plurality of annularly arranged teeth 130 extending radially outwardly from the annular extension 126.

[0025] The middle flange support 124 and gear member 128 are offset or off-center on the frame such that the distance d_1 (FIG. 2) to one end 132 of the frame is longer than the distance d_2 (FIG. 2) to the opposite end 135 of the frame. This offset provides a gap 134, as seen in FIG. 8, in the braking mechanism 112. Indicia 136, such as a company name, may be provided on the end 132 of the frame to indicate the longer side, that is distance d_1 of the frame to facilitate the orientation of the cable reel 100 in the bag or box.

[0026] Each flange 106 and 108 is preferably sized to fit within the outer frame portion 120 of its respective support frame 102 and 104 and is sized to accommodate the cable, such as a cable coil. The cable coil may be, for example, having an outer diameter of 345 mm and an inner diameter of 200mm and a height of 135 mm. The flanges 106 and 108 are preferably disc-shaped. Each flange has inner and outer surfaces 140 and 142 and a central arbor opening 144. The inner surface 140 of each flange abuts the hub member 110 and the outer surface 142 abuts a respective support frame 102 and 104.

[0027] The central arbor opening 144 corresponds to the middle flange support 124 of each respective support frame. The central arbor opening 144 supports the second part of the braking mechanism 112 as seen in FIGS. 3 and 7. The second part of the braking mechanism 112 may be an internal gear member 146 that includes a plurality of annular arranged teeth 148 extending radially inwardly.

[0028] The hub member 110 is located between the flanges 106 and 108 and supports the cable coil. The hub member 110 includes a first hub portion 150 (FIGS. 4A and 4B) and a second hub portion 152 (FIGS. 5A and 5B) that are axially aligned and configured to mate with one another. The hub portions 150 and 152 may be formed separately from the respective flanges 106 and 108 and attached thereto or the hub portions 150 and 152 may be formed as one-piece with the respective flanges 106 and 108.

[0029] As seen in FIGS. 4A and 4B, the first hub portion 150 is preferably the base of the cable reel and provides the main support for the cable. As such, the first hub portion 150 is larger than the second hub portion 152. The first hub portion 150 includes an elongated wall 154 that extends from the inner surface 140 of the first flange 106 and defines an inner area 156 that receives the second hub portion 152. The elongated wall 154 has a tapered outer surface 158 that tapers inwardly from the flange inner surface 140 to the free end 160 of the wall 154. Slots 162 in the elongated wall 154 create flexible segments 164, which engage both the second hub portion 152 and the cable coil to retain the same. A groove 166 (FIG. 4B) may be located at the base of the elongated wall 154 to provide additional flexibility to the segments 164. Any other mechanism may be provided to add flexibility to the segments 164. For example, the segments 164 can be made thinner.

[0030] Secondary engagement members 170 may be provided as a back-up to retain the hub portions 150 and 152 together. The secondary engagement members 170 may be, for example, one or more snap arms 172 provided in the inner area 156 that extend from the flange inner surface 140. The one or more snap arms 172 preferably extend beyond the elongated wall 154 of the first hub portion 150, as seen in FIG. 4A, in order to engage the second flange 108. The ends of the snap arms 172 preferably include snap tabs 174 that engage corresponding slots 176 (FIG. 5B) in the second flange 108. Although a snapping engagement is preferred to secure the hub portions 150 and 152 together, any known interlocking mechanism may be used.

[0031] As seen in FIGS. 5A and 5B, the second hub portion 152 includes a truncated wall 180 that extends from the inner surface 140 of the second flange 108. The truncated wall 180 has a tapered outer surface 182 that fits inside of the elongated wall 154 of the first hub portion 150 to form a friction fit between the hub portions 150 and 152 and expands the flexible segments 164 of the first hub portion 150.

[0032] As seen in FIG. 8, the braking mechanism 112 is provided by meshing the teeth 130 and 148 of the outer and internal gear members 128 and 146. The gap 134 between the teeth 130 and 148 provides clearance for the teeth to slip or jump when the cable is pulled from the reel. The gear members 128 and 146 prevent overpayout of the cable. More specifically, when the cable is pulled from the reel, the flange 106 and 108 rotate, thereby making the gear teeth 148 rotate. The side support 120 is preferably fixed inside of the supporting bag or box and therefore does not rotate. This causes the gear teeth 148 to override meshing gear teeth 130 on the side support 128 which creates friction and provides a braking to the momentum of reel if the cable is pulled too hard. This action also creates a clicking mechanism which in turn prevents overpaying the cable.

[0033] The distance of the gap need only be long enough to provide a clearance to have gear teeth 148 to override teeth 130, thereby allowing the braking mechanism to work. This clearance distance could vary depending upon the gear teeth depth, flange hole inner diameter, side support gear depth, and the outer diameter of the middle flange support 124. The gap 134 may be, for example, about ¼ inch.

[0034] To install the cable on the cable reel 100, the cable coil is placed over the first hub portion 150 of the hub member 110 and on the first flange 106 so that the first hub portion 150 extends through the inner diameter of the cable coil. The cable coil may be prepacked in a plastic shrink wrap or with tie wraps or combination of both without any external structure to support that coil. Next the second hub portion 152 is inserted inside of the first hub portion 150

to frictionally engage the same and expand the flexible segments 164, thereby forcing the flexible segments 164 to engage the inner diameter of the cable coil. The locking tabs 174 are then inserted inside of the slots 176 on the second flange 108 to hold two flanges and hub portions together.

[0035] In a preferred embodiment, the first support frame 102 of the reel 100 is secured to the base of the bag or box, such as by straps, and the second support frame 104 is secured to the cover or flap of the bag. With the cable coil installed on the hub member 110, the cable coil is inserted into the bag or box between the support frames 102 and 104 in the bag or box. The assembly of the hub portions 150 and 152, the flanges 106 and 108, and the cable coil is preferably inserted into the base of the bag on its side such that the middle flange support 124 of the frame secured to the base of the bag fits inside of the central arbor opening 144 of the flange. Similarly, the middle flange support 124 of the frame secured to the cover of the bag fits inside of the opening 144 of the other flange when the bag is closed. Once the frames 102 and 104 are mated with the flanges 106 and 108, respectively, the operator can then dispense or payout the cable through a cable payout slot or opening in the bag or box. The operator may open the cover of the bag or box to separate the hub portions 150 and 152 by disengaging the snap tabs 174.

[0036] While particular embodiments have been chosen to illustrate the invention, it will be understood by those skilled in the art that various changes and modifications can be made therein without departing from the scope of the invention as defined in the appended claims.

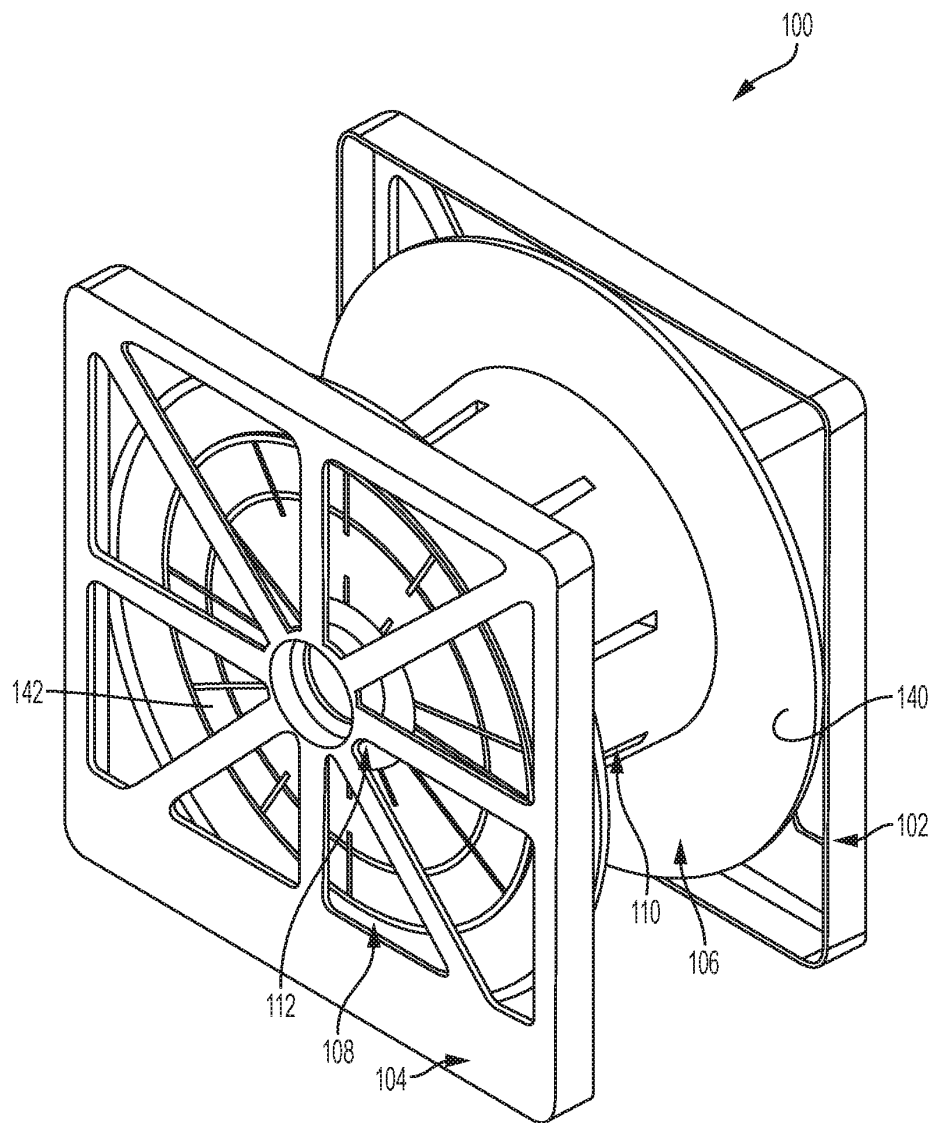


FIG. 1

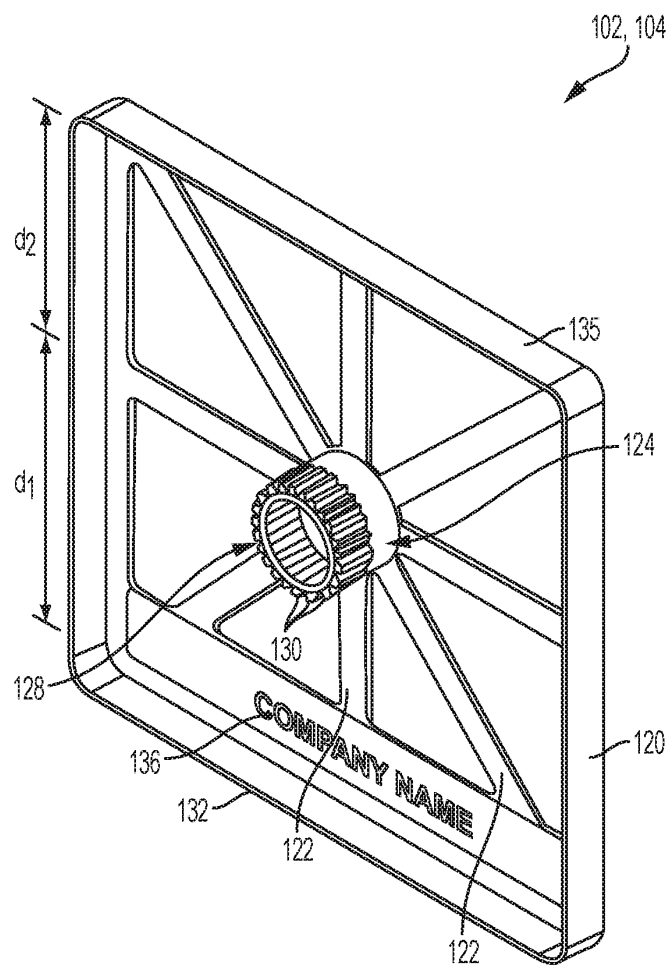


FIG. 2

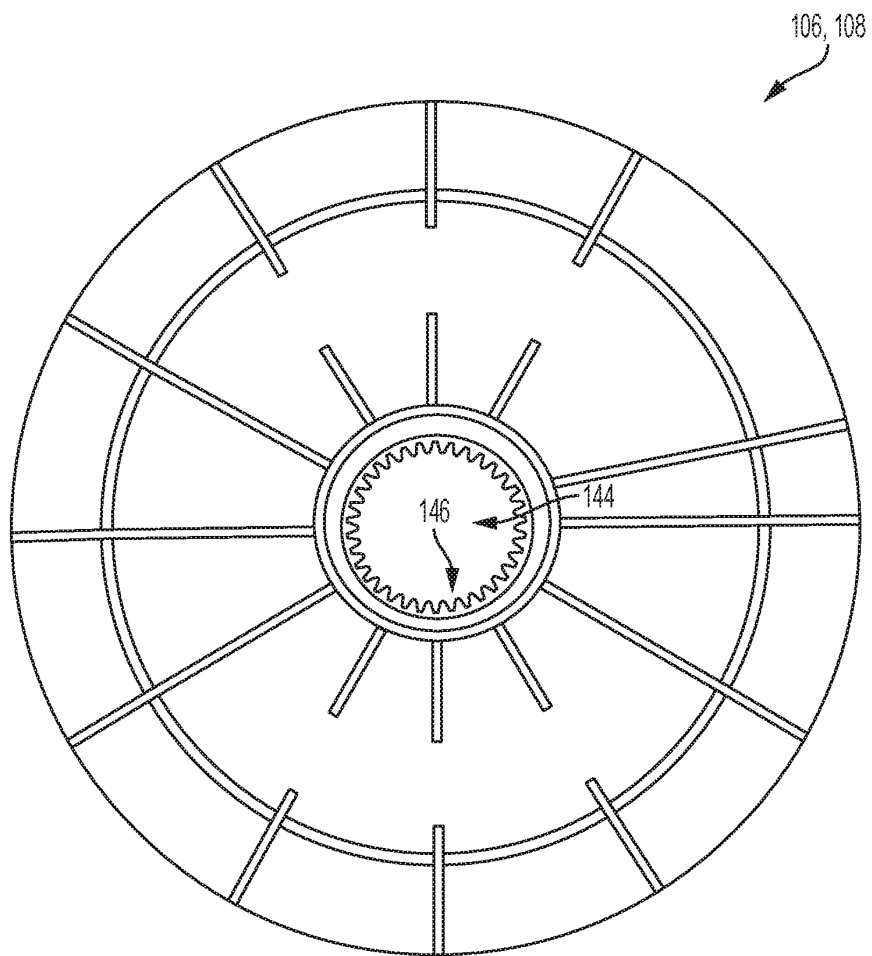
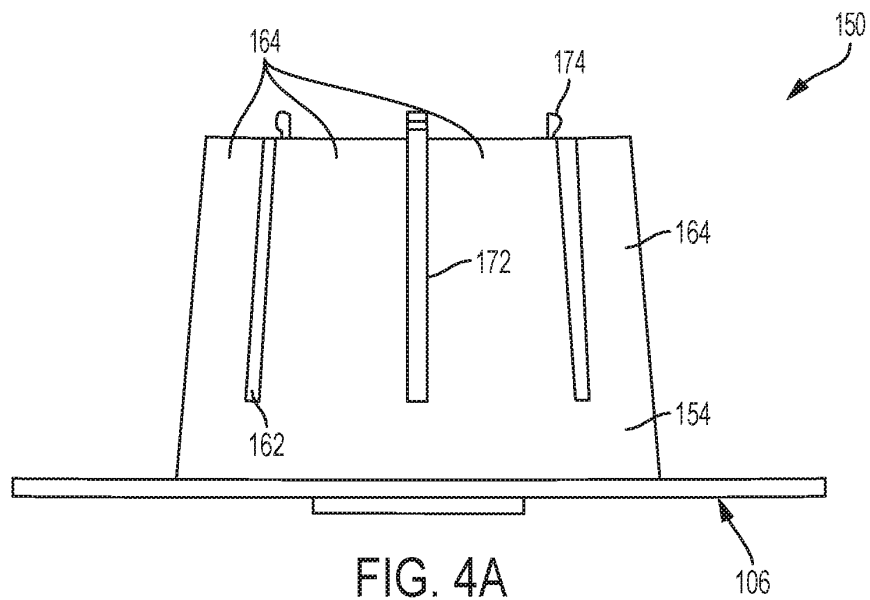


FIG. 3



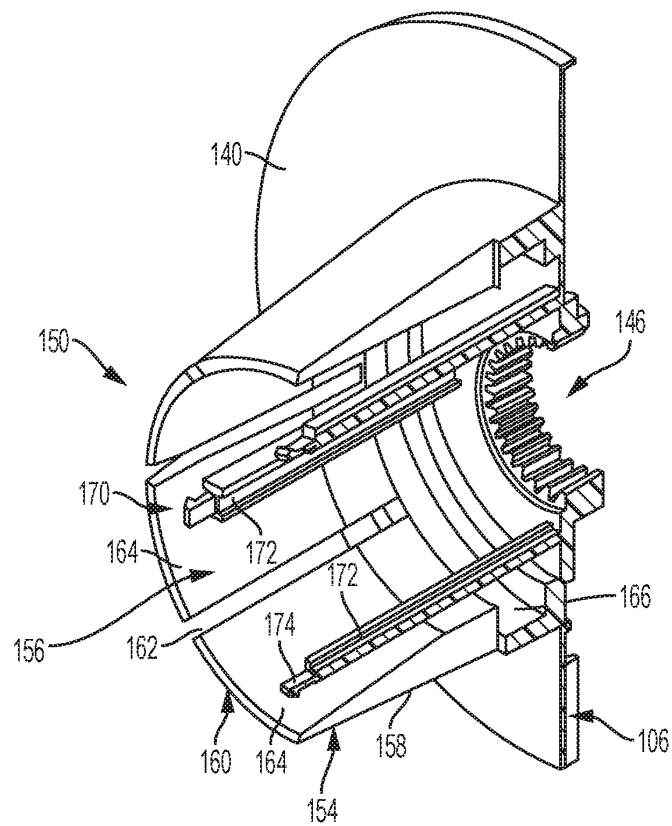


FIG. 4B

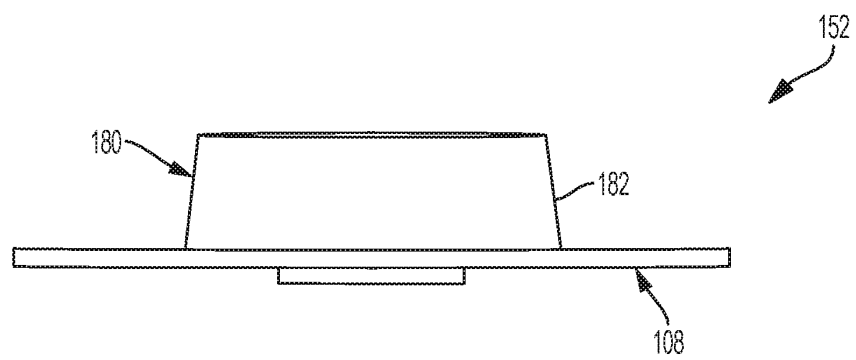


FIG. 5A

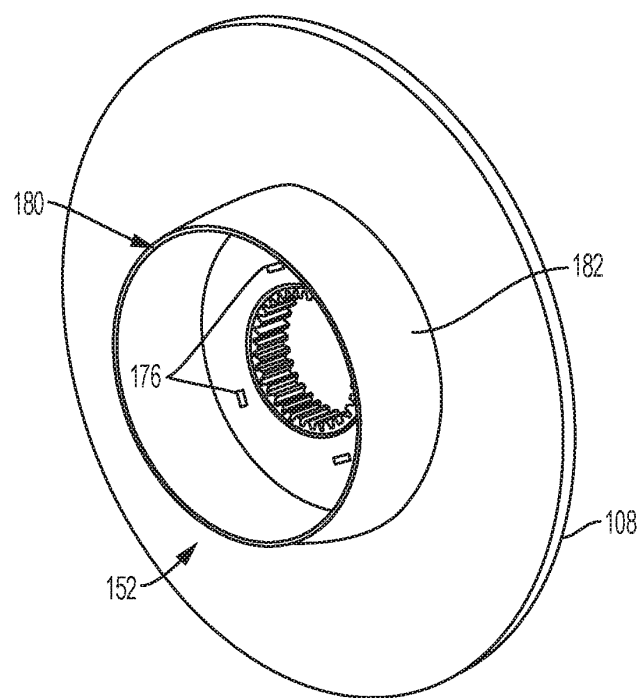


FIG. 5B

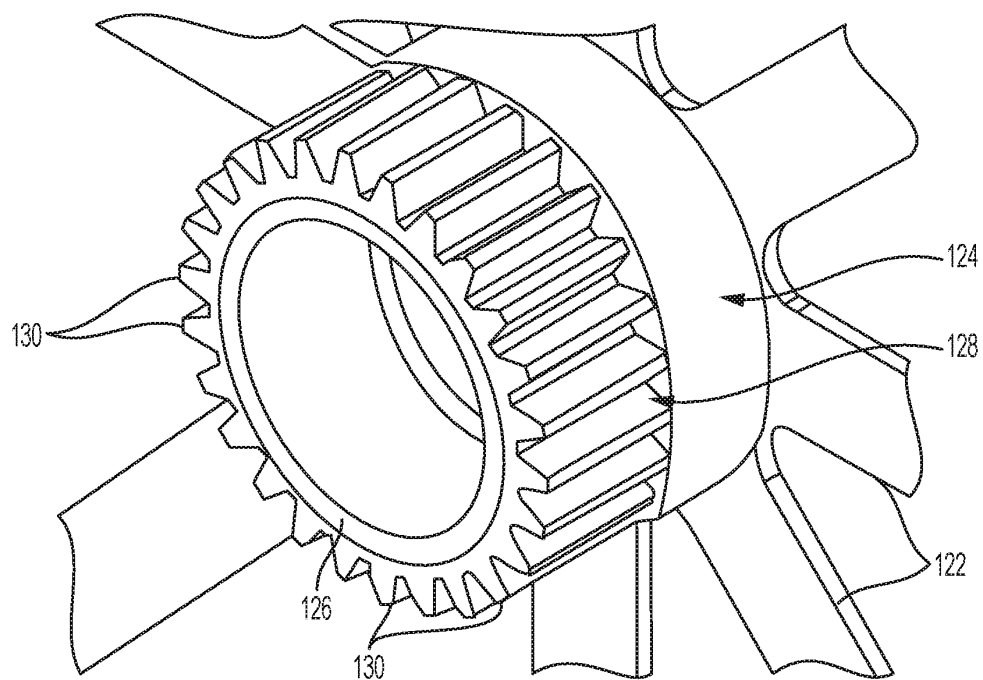


FIG. 6

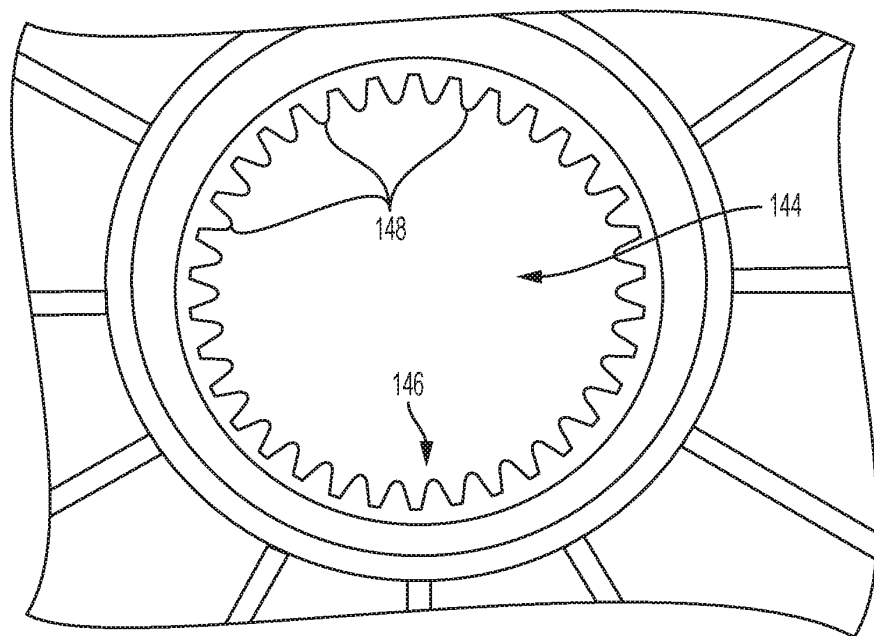


FIG. 7

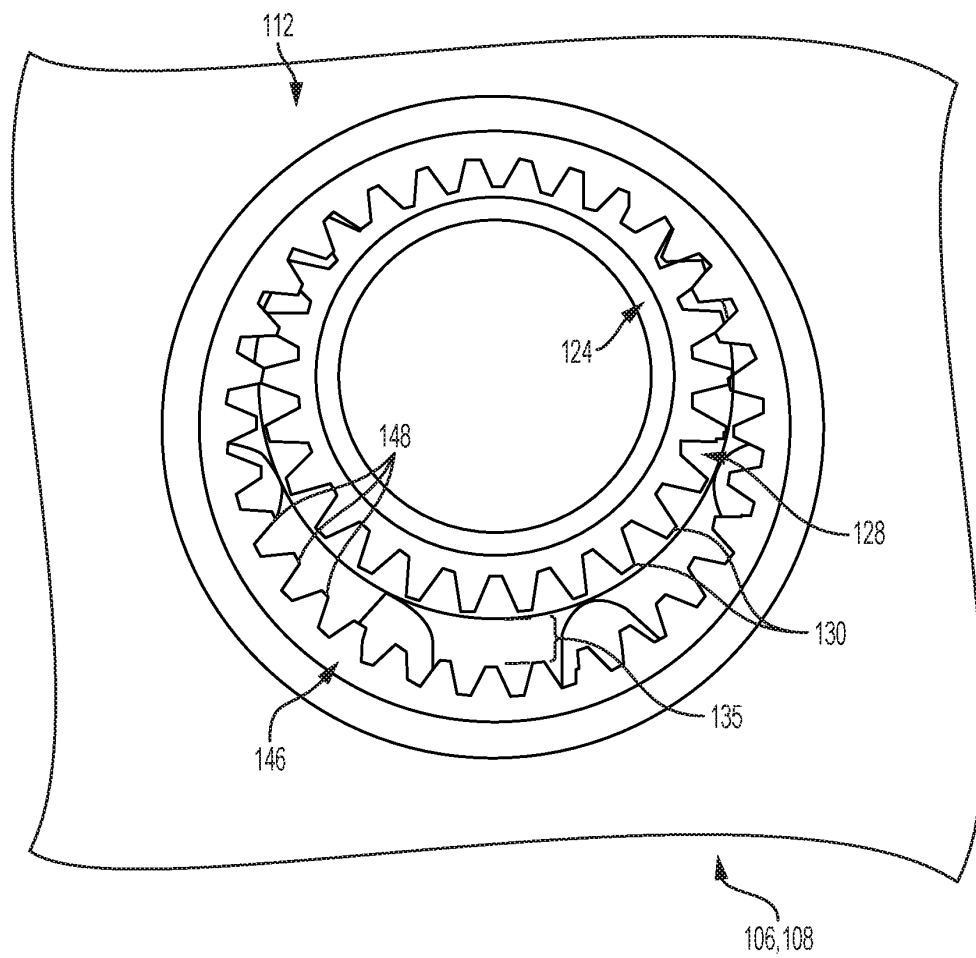


FIG. 8

Application Data Sheet

Inventor Information

Inventor Number::	1
Name Prefix::	Mr.
Given Name::	Rakesh
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City of Residence::	Durham
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City of mailing address::	Durham
State or Province of mailing address::	NC
Country of mailing address::	US
Postal or Zip Code of mailing address::	27713
Inventor Number::	2
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City of mailing address::	Changzhou

Country of mailing address:: People's Republic of China

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Middle Name:: S.

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Postal or Zip Code of mailing address:: 24531

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Country of Residence:: US
Street of mailing address:: 14030 Callands Rd
City of mailing address:: Callands
State or Province of mailing address:: VA
Country of mailing address:: US
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Inventor Number:: 6
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Given Name:: Barry

Family Name::	Holt
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Country of Residence::	Canada
Street of mailing address::	662 Cole Avenue
City of mailing address::	Ottawa
State or Province of mailing address::	ON
Country of mailing address::	Canada
Postal or Zip Code of mailing address::	K2A2B7

Correspondence Information

Correspondence Customer Number::	27557
----------------------------------	-------

Application Information

Application Type::	Regular
Subject Matter::	Utility
CD-ROM or CD-R?::	None
Sequence submission?::	None
Computer Readable Form (CRF)?::	No
Title::	METHOD OF INSTALLING CABLE ON CABLE REEL
Attorney Docket Number::	111429.00339
Request for Early Publication?::	No
Request for Non-Publication?::	No

Total Drawing Sheets:: 10

Small Entity?:: No

Petition included?:: No

Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2:: No

Representative Information

Representative Customer Number:: 27557

Domestic Priority Information

Application::	Continuity Type::	Parent Application::	Parent Filing Date::	Prior Appl Status::
This Application	Continuation of	15/433,789	02/15/17	Pending
15/433,789	Divisional of	14/634,007	02/27/15	Pending

Foreign Priority Information

Applicant Information

Applicant Number:: 1

Applicant Type:: Assignee

Organization Name:: Amphenol Corporation

Street of mailing address:: 358 Hall Avenue

City of mailing address:: Wallingford

State or Province of mailing address:: CT

Country of mailing address::

US

Postal or Zip Code of mailing address::

06492

Authorization or Opt-Out of Authorization to Permit Access

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the “Authorization or Opt-Out of Authorization to Permit Access” section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Tara L. Marcus/	Date (YYYY-MM-DD)	2017-12-06
Name	Tara L. Marcus	Registration Number	46,510

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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)****Title of
Invention**

CABLE REEL

As the below named inventor, I hereby declare that

This declaration
is directed to:☐

The attached application, or

☒United States application or PCT international application number 14/634,007
filed on February 27, 2015

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.**WARNING:**

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

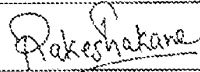
Inventor:

Rakesh THAKARE

Date (Optional):

3/1/2017

Signature:



Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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CABLE REEL

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☒ United States application or PCT international application number 14/634,007
filed on February 27, 2015

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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LEGAL NAME OF INVENTOR

Inventor: Caichun SONG

Date (Optional): 2017.3.16

Signature: Caichun Song

Note. An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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Invention**

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This declaration ☐ The attached application, or
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filed on February 27, 2015

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LEGAL NAME OF INVENTORInventor: Phillip S. BOWEN

Date (Optional): _____

Signature: Phillip S. Bowen

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Title of
Invention

CABLE REEL

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This declaration ☐ The attached application, or
is directed to:

☒ United States application or PCT international application number 14/634,007
filed on February 27, 2015

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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by fine or imprisonment of not more than five (5) years, or both.

WARNING:

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LEGAL NAME OF INVENTOR

Inventor: Marvin BRYANT

Date (Optional): 03/01/2017

Signature: Marvin Bryant

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Title of
Invention

CABLE REEL

As the below named inventor, I hereby declare that:

This declaration ☐ The attached application, or
is directed to:

☒ United States application or PCT international application number 14/634,007
filed on February 27, 2015

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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WARNING:

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LEGAL NAME OF INVENTOR

Inventor: Paul R. BOUCHER

Date (Optional): 3-2-2017

Signature: Paul R. Boucher

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention	CABLE REEL
-------------------------------	------------

As the below named inventor, I hereby declare that:

This declaration ☐ The attached application, or
is directed to: ☒ United States application or PCT international application number 14/634,007
filed on February 27, 2015.

The above-identified application was made or authorized to be made by me.

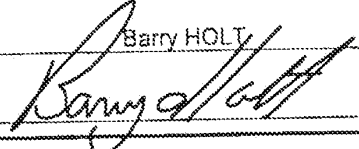
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.

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LEGAL NAME OF INVENTOR

Inventor: Barry HOLT Date (Optional): 03/01/2017
Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

Docket No.: 111429.00339
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Rakesh Thakare et al.

Application No.: Not Yet Assigned

Confirmation No.: N/A

Filed: Concurrently Herewith

Art Unit: N/A

For: METHOD OF INSTALLING CABLE ON
CABLE REEL

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

In accordance with 37 C.F.R. § 1.98(d)(1), the foreign reference noted by a double-asterisk next to the Cite No. on the attached PTO/SB/08, is not supplied because it was previously cited by or submitted to the Office in parent application number 15/433,789 filed February 15, 2017 and relied on in the above-identified application for an earlier effective filing date under 35 U.S.C. § 120.

111429.00100/106397856

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made. In accordance with 37 C.F.R. § 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to the patentability as defined in 37 C.F.R. § 1.56(b).

It is submitted that the Information Disclosure Statement is in compliance with 37 C.F.R. § 1.98, and the Examiner is respectfully requested to consider the listed references.

Dated: December 6, 2017

Respectfully submitted,

Electronic signature: /Tara L. Marcus/
Tara L. Marcus

Registration No.: 46,510
BLANK ROME LLP
1825 Eye Street, NW
Washington, DC 20006-5403
(202) 772-5800
Attorney for Applicant

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Rakesh Thakare
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	111429.00339

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US-2,033,578	03-10-1936	Kittel	
	AB	US-1,990,135	02-05-1935	Sato	
	AC	US-2,400,417	05-14-1946	Hickey	
	AD	US-2,965,331	12-20-1960	Nagy	
	AE	US-3,693,784	09-26-1972	Holmes	
	AF	US-3,836,093	09-17-1974	Mozina et al.	
	AG	US-4,650,073	03-17-1987	Young	
	AH	US-4,667,896	05-26-1987	Frey et al.	
	AI	US-5,139,210	08-18-1992	Schaffer	
	AJ	US-5,810,283	09-22-1998	Shea	
	AK	US-6,145,780	11-14-2000	Fontana	
	AL	US-6,234,421	05-22-2001	Cox et al.	
	AM	US-6,328,238	12-11-2001	Chism	
	AN	US-2006/0157366-A1	07-20-2006	Jamie	
	AO	US-7,140,598	11-28-2006	Verakis et al.	
	AP	US-7,891,601	02-22-2011	Higashisaka et al.	
	AQ	US-7,938,357	05-10-2011	Johanson et al.	
	AR	US-D641161	07-12-2011	Houston et al.	
	AS	US-D641162	07-12-2011	Houston et al.	
	AT	US-D641163	07-12-2011	Houston et al.	
	AU	US-8,230,996	07-31-2012	Cummings et al.	
	AV	US-8,251,212	08-28-2012	Dunlap	
	AW	US-8,424,795	04-23-2013	Galgano et al.	
	AX	US-D686907	07-30-2013	Chastain et al.	
	AY	US-2015/0312159-A1	10-29-2015	Ertugay et al.	
	AZ	US-20140312159-A1	10-23-2014	Troitzsch et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	BA**	EP-0922003 (A1)-A1	06-16-1999	Italiana Conduttori S R L		<input checked="" type="checkbox"/>

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ** CITE NO.: Those document(s) which are marked with an double asterisk (**) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filing date under 35 U.S.C. 120. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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111429.00100/106397884

Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Rakesh Thakare
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	111429.00339

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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111429.00100/106397884

Electronic Patent Application Fee Transmittal				
Application Number:				
Filing Date:				
Title of Invention:		METHOD OF INSTALLING CABLE ON CABLE REEL		
First Named Inventor/Applicant Name:		Rakesh Thakare		
Filer:		Francine Feirong Li/lisa hayes		
Attorney Docket Number:		111429.00339		
Filed as Large Entity				
Filing Fees for Utility under 35 USC 111(a)				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	280	280
UTILITY SEARCH FEE	1111	1	600	600
UTILITY EXAMINATION FEE	1311	1	720	720
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
Total in USD (\$)				1600

Electronic Acknowledgement Receipt	
EFS ID:	31143627
Application Number:	15833091
International Application Number:	
Confirmation Number:	1883
Title of Invention:	METHOD OF INSTALLING CABLE ON CABLE REEL
First Named Inventor/Applicant Name:	Rakesh Thakare
Customer Number:	27557
Filer:	Francine Feirong Li/lisa hayes
Filer Authorized By:	Francine Feirong Li
Attorney Docket Number:	111429.00339
Receipt Date:	06-DEC-2017
Filing Date:	
Time Stamp:	13:08:00
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	\$1600
RAM confirmation Number	120617INTEFSW13084500
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Fee Worksheet (SB06)	feetransmittal.pdf	128764	no	1
			599b02f343a49a84246390c030280bd8c964f43		
Warnings:					
Information:					
2	Transmittal of New Application	transmittal.pdf	98463	no	1
			c317df0c5cb69db5d9c3f5b216700c1fc351e3c5		
Warnings:					
Information:					
3		application.pdf	143178	yes	14
			90d8cf1d66e3133468ea164415048655e8a0aa71		
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Abstract		14	14	
	Claims		10	13	
	Specification		1	9	
Warnings:					
Information:					
4	Drawings-only black and white line drawings	figures.pdf	101470	no	10
			e38d4746c988b18599451f23906d3068505644b4		
Warnings:					
Information:					
5	Application Data Sheet	ads.pdf	82346	no	7
			8bd9139d9ac241116707c14b37dc27d4b97e0c5		

Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
6	Oath or Declaration filed	declarations.pdf	5461263	no	6
			4edb88651c59c4f7f87c9d5efe7c91939e64e58c		
Warnings:					
Information:					
7	Transmittal Letter	idstransmittal.pdf	90109	no	2
			c991de6ffead63e4c215aae457b0e999b60189c5		
Warnings:					
Information:					
8	Information Disclosure Statement (IDS) Form (SB08)	sb08.pdf	111725	no	2
			a60a43545272dd00f7972f00a9ad89c4704cf678		
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
9	Fee Worksheet (SB06)	fee-info.pdf	34885	no	2
			76b6053578bb00ff161289e34b1f473be7f59be9		
Warnings:					
Information:					
Total Files Size (in bytes):			6252203		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

<h1 style="margin: 0;">FEE TRANSMITTAL</h1>		Complete if known	
		Application Number	Not Yet Assigned
		Filing Date	Concurrently Herewith
<input type="checkbox"/> Applicant asserts small entity status. See 37 CFR 1.27.		First Named Inventor	Rakesh Thakare
<input type="checkbox"/> Applicant certifies micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.		Examiner Name	Not Yet Assigned
		Art Unit	N/A
TOTAL AMOUNT OF PAYMENT		Practitioner Docket No.	111429.00339

METHOD OF PAYMENT (check all that apply)

☐ Check ☒ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☐ Deposit Account Deposit Account Number: 23-2185 Deposit Account Name: Blank Rome LLP

For the above-identified deposit account, the Director is hereby authorized to (check all that apply):

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, **except for the filing fee**

☐ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayment of fee(s)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES (U = undiscounted fee; S = small entity fee; M = micro entity fee)

Application Type	FILING FEES			SEARCH FEES			EXAMINATION FEES			Fees Paid (\$)
	U (\$)	S (\$)	M (\$)	U (\$)	S (\$)	M (\$)	U (\$)	S (\$)	M (\$)	
Utility	280	140*	70	600	300	150	720	360	180	1,600.00
Design	180	90	45	120	60	30	460	230	115	
Plant	180	90	45	380	190	95	580	290	145	
Reissue	280	140	70	600	300	150	2,160	1,080	540	
Provisional	260	130	65	0	0	0	0	0	0	

* The \$140 small entity status filing fee for a utility application is further reduced to \$70 for a small entity status applicant who files the application via EFS-Web.

2. EXCESS CLAIM FEES

Fee Description	Undiscounted Fee (\$)	Small Entity Fee (\$)	Micro Entity Fee (\$)
Each claim over 20 (including Reissues)	80	40	20
Each independent claim over 3 (including Reissues)	420	210	105
Multiple dependent claims	780	390	195

Total Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)** **Multiple Dependent Claims**

16 - 20 or HP = _____ x _____ = _____ **Fee (\$)** **Fee Paid (\$)**

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims **Extra Claims** **Fee (\$)** **Fee Paid (\$)**

2 - 3 or HP = _____ x _____ = _____

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$400 (\$200 for small entity) (\$100 for micro entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets **Extra Sheets** **Number of each additional 50 or fraction thereof** **Fee (\$)** **Fee Paid (\$)**

24 - 100 = _____ /50 = _____ (round up to a whole number) x _____ = _____

4. OTHER FEE(S)

Non-English specification, \$130 fee (no small or micro entity discount) _____

Non-electronic filing fee under 37 CFR 1.16(t) for a utility application, \$400 fee (\$200 small or micro entity) _____

Other (e.g., late filing surcharge): _____

SUBMITTED BY

Signature	/Tara L. Marcus/	Registration No. (Attorney/Agent)	46,510	Telephone	(202) 772-5957
Name (Print/Type)	Tara L. Marcus	Date	December 6, 2017		

111429.00100/106397845