

932,456.

Patented Aug. 31, 1909.

Fig. 1.

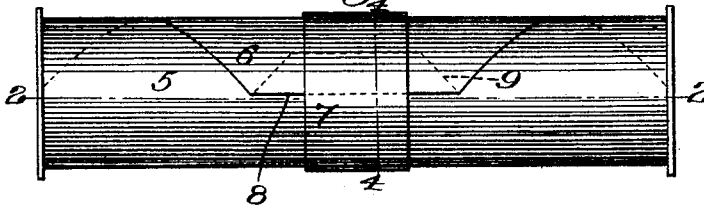


Fig. 2.

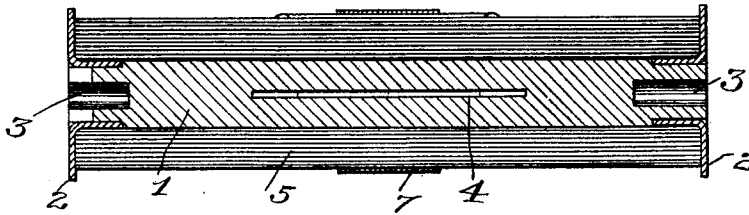


Fig. 3.

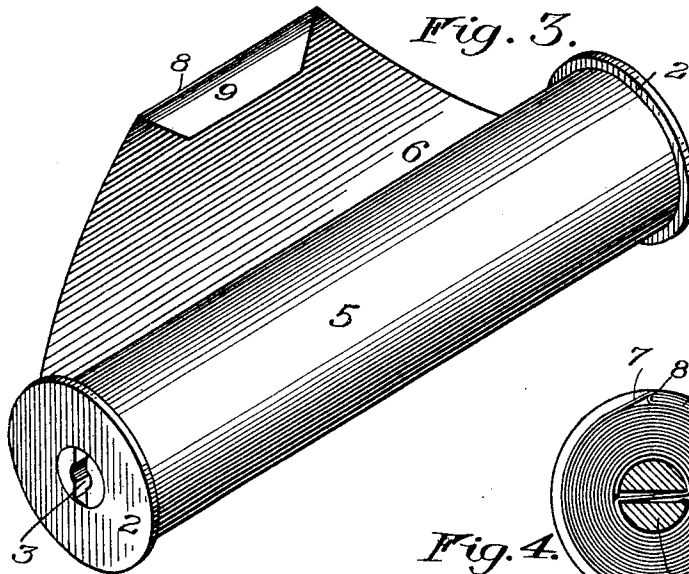
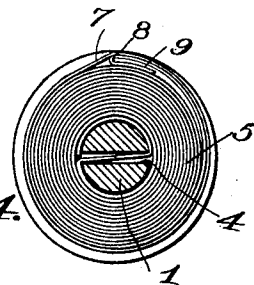


Fig. 4.



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UNITED STATES PATENT OFFICE.

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ROLLED PACKAGE.

932,456.

Specification of Letters Patent.

Patented Aug. 31, 1909.

Application filed July 10, 1907. Serial No. 383,007.

To all whom it may concern:

Be it known that I, GEORGE J. FALLESEN, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Rolled Packages; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of the specification, and to the reference-numerals marked thereon.

My present invention relates to means for securing packages of sheet materials wound in convolutions upon a spool or otherwise, from unwinding, and particularly to such means as employ a securing member which is intended to be mutilated or destroyed when the package or roll is opened, and it has for its object to provide a simple, cheap and efficient arrangement of this nature embodying a securing member which will hold the convolutions tightly together but which may be easily and readily broken or displaced by the operator when access to the interior of the roll is desired.

To these and other ends the invention consists in certain improvements and combinations of parts all as will be hereinafter more fully described, the novel features being pointed out in the claims at the end of the specification.

In the drawings: Figure 1 is a side elevation of a package comprising a spool having a strip of sheet material wound thereon and secured in accordance with my invention. Fig. 2 is a longitudinal central section thereof on the line 2—2 of Fig. 1. Fig. 3 is a perspective view of the same, with the securing member removed and the end of the strip partially unrolled, and Fig. 4 is a transverse section on the line 4—4 of Fig. 1.

I have shown my invention in the present instance in connection with a spool or cartridge, such as is employed in photography to wind the film or negative and its paper backing into a roll for insertion, and subsequent rewinding during successive exposures, in a camera, as this application of my improvements is particularly advantageous and well illustrates its utility and value.

Referring more particularly to the drawings, 1 indicates the drum or body of a spool, 2 the end flanges and 3 the axial recesses at either end for the reception of winding and supporting studs. In the instance cited, the

film is usually secured to a sheet or strip of paper forming a backing, the inner end of which is attached to the spool by being passed through a slot 4 therein and then wound together with the film upon the spool to form a roll 5, the paper being the longer of the two in order that it may form several outer protecting convolutions about the film. The extreme outer end of the strip is preferably tapered to a diminished width, as at 6, and is secured against the face of the roll by a band or label 7 extending circumferentially of the latter by means of which the roll is held intact. I prefer to extend this band or fastening member entirely around the roll and to secure it thereto and to the end of the strip as by an adhesive, a label or paster of gummed paper being desirable in the present instance for such use. When the roll is to be used, the paper band is broken or detached from one of the parts when the end of the strip becomes free. I have found, however, that with the provisions thus far specified, great difficulty is apt to be experienced in breaking the band or securing member without mutilating the end of the strip, particularly when the latter is relatively thin and pliable. The gummed paper conforms very closely to its coherent surfaces and in attempting to separate it therefrom portions of the strip become disfigured or are torn and this latter is particularly true when the attempt is made by lifting a free edge of the strip, as is a natural expedient. In the particular application of the invention here treated, the outer end of the strip, when torn, is exceedingly difficult to insert in the opposite (and similarly constructed) spool of the camera for rewinding. To obviate these disadvantages and render the roll easily opened or unfastened, I provide the exposed edge of the end of the strip with a reinforced portion 8 of sufficient thickness to toughen it or increase its tensile strength and stiffen it and preferably at the same time raise the band 7 out of contact with the immediately adjoining surface of the outer convolution of the roll so that, for a portion of its extent, it is disposed tangentially to the latter, as clearly shown in Fig. 4. If the band is tightly applied, this raised position will be drawn taut, so that the only effort required of the operator in opening or unfastening the roll is to raise a portion of the heavier

exposed edge on the end of the strip as usual when this reinforced portion will act in a manner easily understood to shear the securing member or band without danger of tearing or mutilating any portion of the strip
5 itself. Or in some instances it may be found convenient to simply run the thumb nail across the band adjacent the thick edge of the strip which will scarf and finally cut
10 or break the band and release the end of the strip without danger of mutilation. If the band is heavier or tougher than when made of thin paper, or similar material, the raised portion allows of the insertion of a suitable
15 instrument to perform an equivalent operation.

As a cheap and convenient method of providing the heavier exposed edge on the strip, I prefer to form it by doubling or
20 turning over the extreme end 9, as shown in Fig. 3. This is particularly advantageous on a film roll as, after the band is broken, this doubled portion may be straightened

again to facilitate its insertion in the slotted portion 4 of the rewinding spool.

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I claim as my invention:

1. A photographic film cartridge comprising a spool, a backing strip wound on the spool and carrying a film, the outer end of the strip being folded back upon itself to
30 form a reinforced portion and a frangible band separate from the material of the strip and narrower than the latter, encircling the roll and extending across the folded or reinforced end of the strip.

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2. A camera film cartridge comprising a spool, a backing strip wound on the spool and carrying a film, the outer end of the strip being tapered and reinforced, and a band encircling the roll and extending across
40 the reinforced portion.

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Witnesses:

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