

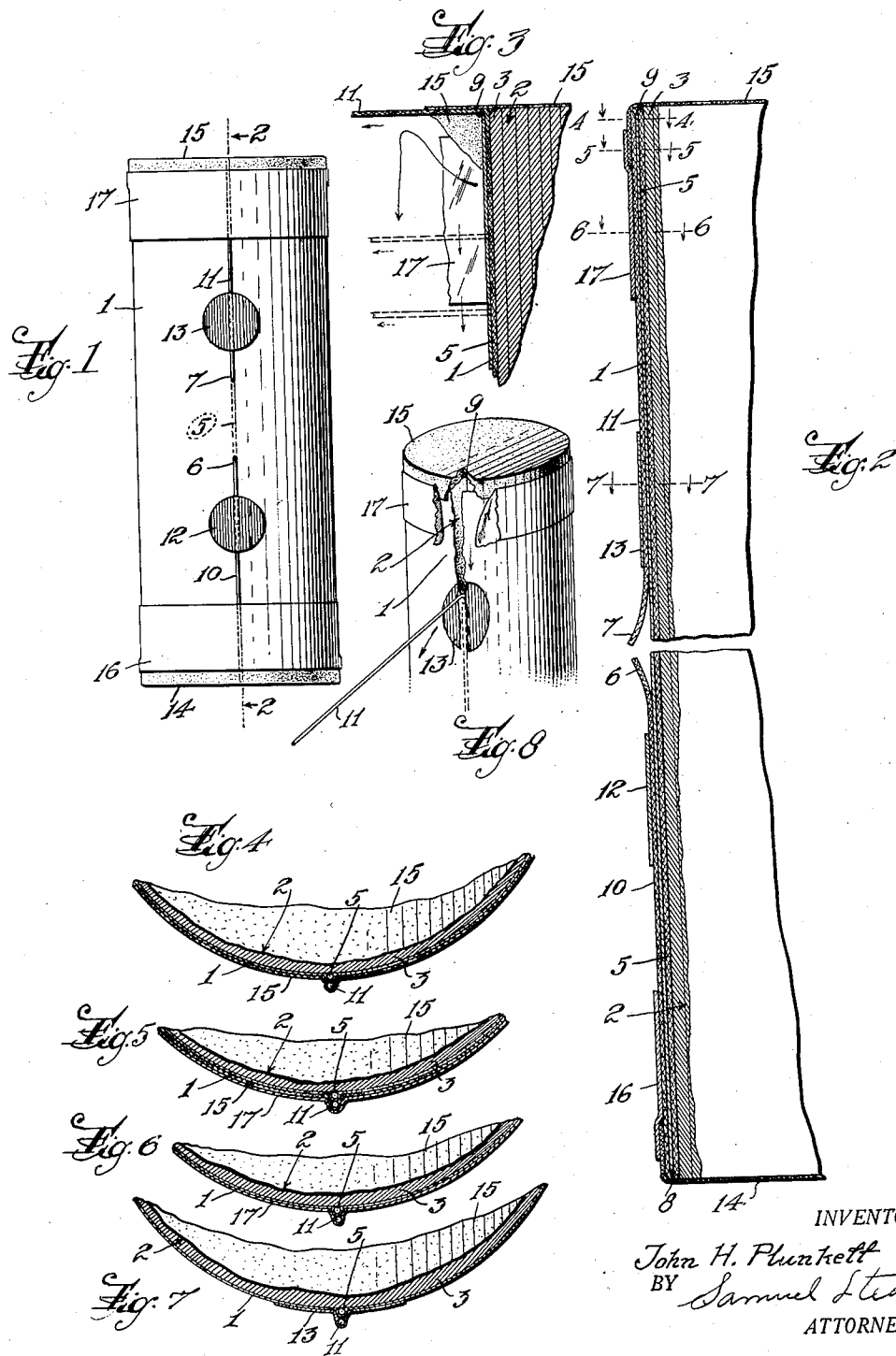
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ROLL ROOFING PACKAGE

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ROLL ROOFING PACKAGE

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This invention relates to packages and has particular reference to packages of roofing material wound into rolls for shipment, and known as roll roofing.

A large quantity of flexible composition roofing and building material is marketed in the form of rolls of considerable weight and size. The material is made in continuous sheets which are wound into rolls on a suitable mandrel and when a roll of desired size has been formed, it is severed from the rest of the sheet and tightly wrapped in a sheet of kraft or similar paper of substantially the same length as the roll, the overlapping edges of the wrapper sheet being adhesively united. In addition to the wrapping sheets, muslin caps are frequently placed over the ends of the roll and held firmly in place by bands of kraft paper encircling the ends of the roll.

Considerable difficulty is frequently experienced in opening such packages preparatory to laying the roofing and valuable time is thereby lost. Very often the roofing material is injured unavoidably or through lack of care in cutting the wrapping from the package by means of a knife or other sharp edge instrument.

The object of my invention is to facilitate the opening of packages of the nature above described by providing a rip cord so that the package can be quickly opened without any liability of injury to the contents.

Briefly, my invention consists in placing a rip cord preferably between the wrapper and the roofing material, with the ends of the cord extending beyond the ends of the wrapper and sealed against the outer surface thereof. By pulling either end of the cord the wrapper may be torn its entire length.

The nature of my invention will be more fully understood from the following description in conjunction with the accompanying drawing of which;

Figure 1 is a diagrammatic view of a package constructed in accordance with my invention;

Figure 2 is an enlarged cross-sectional view taken along the line 2—2 of Figure 1;

Figure 3 is a cross-sectional view of a frag-

ment of the package showing it partially torn open;

Figures 4 to 7 are fragmentary cross-sectional views taken along the lines 4—4 to 7—7 respectively of Figure 2;

Figure 8 is a perspective view of the package showing it partially torn open.

Referring to the drawing, the numeral 1 indicates the paper or similar rendible material. In the form shown in the drawings, the wrapper extends substantially the entire length of the roll of roofing material indicated by the reference numeral 2, the successive convolutions of which are clearly shown in Figure 3. The numeral 3 indicates the outermost convolution of the roll of roofing material. The longitudinal edges of the wrapper 1 overlap and are adhesively united together in the usual manner. Between the wrapper and the outermost convolution 3 of the roll is inserted a rip cord 5. This rip cord may be string, tape, wire or any other suitable material of sufficient strength to tear the wrapper when used in the manner herein described. Both ends 6 and 7 of the rip cord extend beyond the ends 8 and 9, respectively, of the wrapper and the extending portions 10 and 11 of the cord are carried around the ends 8 and 9 of the wrapper, and sealed to the outer face thereof by means of seals 12 and 13, respectively. The seals are preferably made of light weight paper which may be easily torn, and are placed over the extending portions of the cord, a short distance from the ends thereof. The seals 12 and 13 may be dispensed with, and the rip cord placed between the roll and wrapper, adjacent the overlapping longitudinal edges thereof, the extending portions of the cord being carried around the ends of the wrapper and brought against the outer face thereof. The ends of the cord are then inserted between the overlapping marginal portions of the wrapper and sealed by means of the adhesive which unites the longitudinal edges thereof. Where the seals are used, an appropriate legend may be placed thereon indicating the manner in which the package is to be opened. If the seals are not used, a suitable legend of the same nature may be placed on the

wrapper adjacent the point or points where the ends of the cord are sealed.

Headers or caps 14 and 15 made of muslin, paper or any other cheap web or fabric material are placed over the ends of the roll of roofing material and are neatly folded over the ends 8 and 9, respectively, of the wrapper and adhesively united thereto. The caps also cover those portions of the cord which lie against the outer face of the wrapper adjacent the ends thereof. The caps, in addition to protecting the edges of the roofing material, assist in holding the cord in place. Adjacent each end of the roll, encircling bands 16 and 17, made of paper or other suitable material, overlie and are adhesively united to the folded over portion of the caps and the marginal portions of the wrapper. The bands 16 and 17 also overlie portions of the rip cord which lie against the outer face of the wrapper. The bands 16 and 17 serve to reenforce the package at its ends and also aid in holding the ends of the rip cord in place.

It will be seen from the foregoing description that I have provided a roll roofing package which can be readily opened by pulling on either or both ends of the rip cord. Referring particularly to Figures 3 and 8, it will be seen that when a pull is exerted on either of the free ends of the rip cord, the seals 12 and 13 are first ruptured, followed by the tearing of the bands 16 and 17. The caps 14 and 15 are next torn loose by the continued pull on the cord, adjacent the points where they overlie the cord. The wrapper 1 is then finally rent its entire length. The dotted lines on Figure 3 indicate successive positions of the cord during the process of tearing the wrapper by pulling on the upper end of the cord. Thus it will be seen that in addition to tearing the wrapper, the cap is loosened so as to enable it to be grasped between the fingers and removed.

Instead of bending the extending ends of the cord back against the outer face of the wrapper, either one or both extensions may be carried over the ends of the roll beneath the caps and turned down and secured between the encircling bands and the wrapper on the side of the package opposite to that on which the portion of the cord which is covered by the wrapper, lies.

The packages may be formed without the caps or headers 14 and 15 and without the bands 16 and 17, in which case, the cord is placed between the wrapper and roll of roofing as above described, and preferably adhesively united to the inner face of the wrapping sheet. The cord is then sealed adjacent its ends, against the outer face of the wrapper.

In place of the rip cord, two adjacent rows of perforations may be made the entire length of the wrapper and strips of tape united to the ends of the portion of the wrapper between the rows of perforations, so that when

the tape is pulled, it will cause the portion between the rows of perforations to be torn loose, thereby splitting open the wrapper.

My invention is not limited to roll roofing packages but embraces packages containing such materials as building, insulating and sheathing papers as well as mulch paper.

Having thus described certain embodiments of my invention, it should be evident to those skilled in the art that various changes and modifications might be made therein without departing from its spirit or scope as defined by the appended claims.

I claim as my invention:

1. A package comprising a roll of roofing material enclosed by a rendible wrapper, a rip cord between said roll and said wrapper, the ends of said cord extending beyond the ends of the wrapper and being bent back against the outer face thereof, and means for sealing said cord to the outer face of the wrapper adjacent the ends of the cord with the free ends of the cord extending beyond said sealing means.
2. A package comprising a roll of roofing material enclosed by a rendible wrapper, a rip cord between said roll and said wrapper, the ends of said cord extending beyond the ends of the wrapper and being bent back against the outer face thereof, a rendible band encircling each end of said wrapper adjacent the ends of the roll and adhesively united thereto, said bands overlying the bent back portions of the cord and serving to hold the cord firmly in place.
3. A package comprising a roll of roofing material enclosed by a rendible wrapper, a rip cord between said roll and said wrapper, the ends of said cord extending beyond the ends of the wrapper and being bent back against the outer face thereof, a cap on each end of said roll adhesively united to the wrapper and a rendible band encircling each end of the wrapper adjacent the ends of the roll and adhesively united to said wrapper and said caps, the bent back portions of said cord underlying said caps and said bands and adapted to rend the same upon a pull thereon.
4. A package comprising a roll of roofing material enclosed by a rendible wrapper, a rip cord between said roll and said wrapper, said cord being anchored adjacent one end of the wrapper and extending beyond the opposite end thereof, the extending portion being bent back against the outer face of the wrapper, a cap on each end of said roll adhesively united to the wrapper, and a rendible band encircling each end thereof and adhesively united to the wrapper and said caps, the cap and band at one end overlying the bent back portion of said cord.
5. A package comprising a roll of roofing material enclosed by a rendible wrapper, a rip cord between said roll and said wrapper,

said cord being anchored adjacent one end of the wrapper and extending beyond the opposite end thereof, the extending portion being bent back against the outer face of the wrapper, a rendible band encircling each end of the wrapper and adhesively united thereto, the band at one end overlying said bent back portion of the cord and serving to hold it firmly in place.

10 Signed at Los Angeles in the county of Los Angeles and State of California this day of Feb. 13th, A. D. 1932.

JOHN H. PLUNKETT.

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