May 6, 1952 W. F. WEIRICH ET AL 2,595,375

DISPENSING UNIT FOR SLOT INSULATION MATERIAL

Filed April 4, 1949

FIG. 1

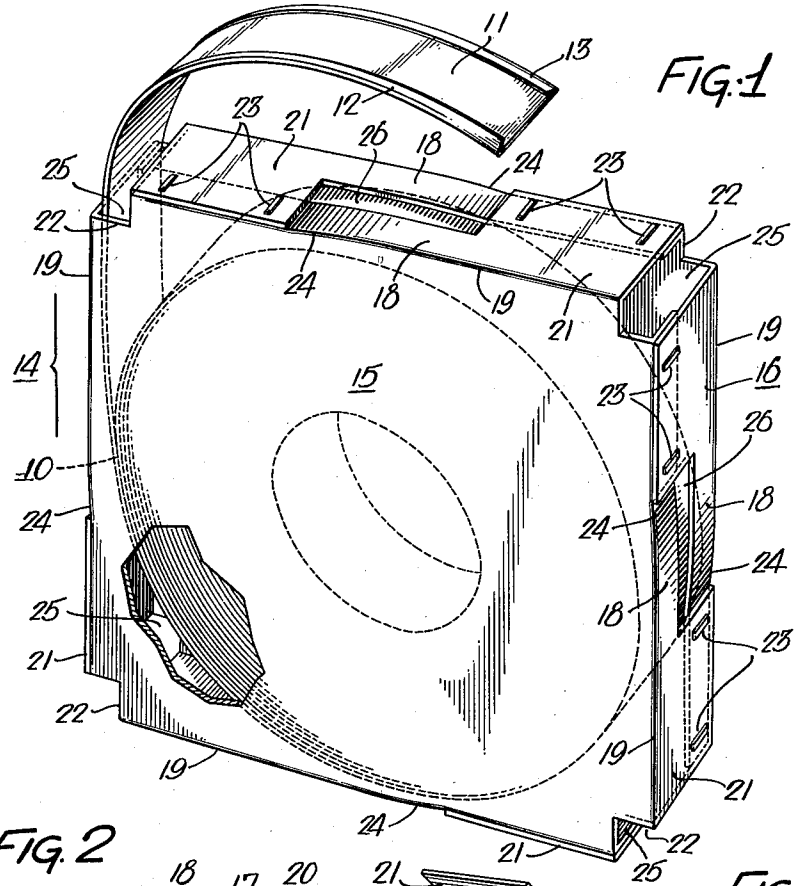


FIG. 2

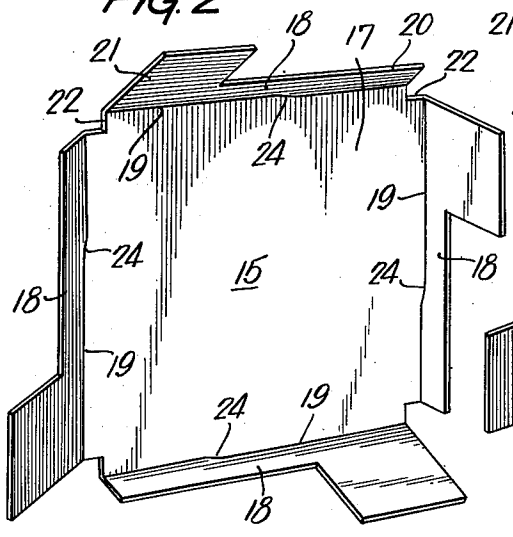
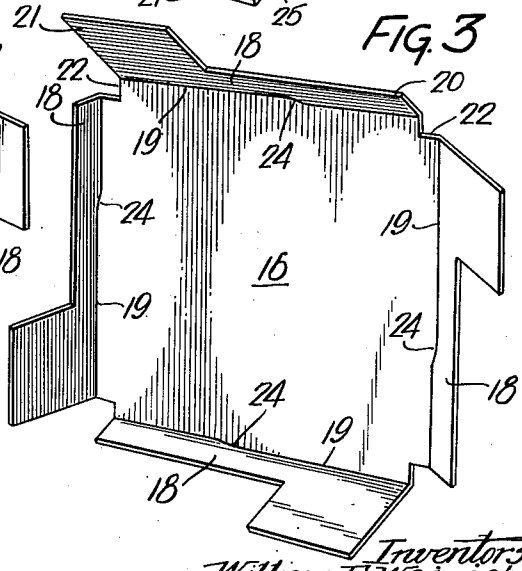


FIG. 3



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DISPENSING UNIT FOR SLOT INSULATION MATERIAL

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5 Claims. (Cl. 206—52)

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This invention is concerned with the sale and use of slot insulation material which is commonly employed in the winding slots of electrical machines such as electric motors. The insulating material here referred to is in the form of a band of special paper with turned longitudinal edge flanges. Heretofore it has been the practise to sell this material in rolls of various widths according to various standard sizes, so that a user has only to cut a length from a roll as desired. Most users have need for a number of different sized rolls, but in many instances the rolls contain enough material to last for some time. This is especially true of small shops which do not have enough need for material of a particular size to use a roll in a very short time. Heretofore there has been a great deal of wastage due to the fact that the rolls have lain around the shop or like places for long periods of time and have become dirty and worn. This condition is made worse by the fact that once a roll is put into use, it tends to unwind due to the resilience or spring of the material. Furthermore, the storage of the rolls has presented a problem.

The principal object of the present invention is to facilitate the handling and storage of such rolls and to eliminate the aforementioned objections.

According to the invention there is provided a saleable dispensing unit comprising a roll of the slot insulation material and a sealed container, preferably formed of cardboard, conforming to the size of the roll and loosely enclosing the same, the container having at least one opening through which the tape-like material may be drawn. The container provided by the invention is very inexpensive and does not materially increase the cost of the roll. This is a very important consideration from a commercial standpoint. When the roll is completely used, the container may be discarded.

The invention may be clearly understood by reference to the accompanying drawing illustrating a preferred embodiment, wherein:

Fig. 1 is a perspective view of the complete saleable article as provided by the invention; and

Figs. 2 and 3 are perspective illustrations of the two parts or members forming the dispensing container.

Referring more particularly to the drawing, the saleable article shown in Fig. 1 comprises a roll 10 of slot insulation material such as hereinbefore mentioned. Such material is in the form of a band or web 11 having turned longitudinal edge flanges 12 and 13. It is important that

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these flanges be preserved until the material is used. The roll 10 is loosely enclosed by a dispensing container 14 which is preferably formed of two cardboard blanks as shown at 15 and 16 in Figs. 2 and 3. These blanks are identical in size and configuration and each comprises a substantially square body portion 17 defined by four marginal fold lines 19 from which extend foldable flaps 18, each of which flaps is substantially L-shaped in plan, these flaps being bent along the fold lines 19 to extend from one and the same side of the blank in a direction substantially normal to the plane of the substantially square body portion 17. Each flap 18 comprises a first portion 20 relatively short in said normal direction and relatively long in a direction parallel to the adjacent marginal edge of the body portion 17, and a second portion 21 relatively long in said normal direction and relatively short in a direction parallel to the adjacent marginal edge of the body portion 17. In addition to having the foldable flaps, each blank is cut away or recessed at its corners, as shown at 22. While in the preferred embodiment of our invention we have described and illustrated the first flap portion 20 as being relatively short in a direction normal to the plane of the substantially square body portion 17 and relatively long in a direction parallel to the adjacent marginal fold line 19, and the second flap portion 21 as being relatively long in said normal direction and relatively short in said parallel direction, it will be obvious that all of the features and advantages of the device of our present invention may be attained by a construction in which the flap portions 20 and 21 are of substantially equal length in a direction parallel to said adjacent fold line.

In forming the dispensing container about the roll, as shown in Fig. 1, two of the blanks are arranged in mutually reversed or opposed relation, and the flaps are folded over so that each of said second portions 21 overlies the associated first portion 20 of the opposite blank. The overlapping flap portions are then secured together so as to seal the container about the roll. It is preferred to employ metal staples, as shown at 23, for this purpose, although any suitable method of securing the overlying flap portions may be used. As may be seen in Figs. 2 and 3, each of the fold lines 19 has a slight offset as shown at 24. The purpose of this is to compensate for the overlapping of the flap portions, thus preventing any bulging or outward projection where the flap portions overlap.

As may be seen in Fig. 1, the completed con-

tainer has corner openings 25 provided by cut-away or recessed portions 22, and it may also have slot-like openings 26 in its narrow sides, depending upon the width of the roll. The end of the roll 10 may be drawn through any one of the corner openings 25 which enable insertion of the fingers to manipulate the roll, as when too much material is withdrawn and it is desired to rewind the roll a small amount. As sold, the end of the roll may be stapled at one of the corner openings. Then by cutting off the stapled end the roll may be put into use. Since the container loosely encloses the roll, the latter is free to rotate as the slot insulation material is drawn from the roll.

It should be noted that the construction of the dispensing container, as described above, is advantageous in that the blanks are identical and are formed by the same operation, and furthermore the flap portions 21 may be made sufficiently long in a direction normal to the plane of the body portion 17 so that the same blanks may be used to form containers of different widths to accommodate rolls of different widths. This merely involves variation of the overlap of portions 21, and if these portions project beyond the sides of the container the projecting parts may be cut off. These advantages are conducive to low cost of the container.

In the commercial practice of the invention the saleable article as shown in Fig. 1 may be manufactured in different sizes according to the different widths of the slot insulation material. A user may purchase as many different sizes as he requires. As stated previously, the rolls of insulation material may last for some time. The dispensing container preserves the enclosed roll, facilitates storage and handling, and eliminates wastage of the slot insulation material. Furthermore, the size of the slot insulation material may be plainly marked on the outside of the dispensing container, thus making it possible for a user readily to select material of a desired size from a plurality of different sized rolls and containers.

This invention has been used commercially and the statements herein made are based on actual commercial practice.

While a preferred embodiment of the dispensing unit has been illustrated and described, it will be apparent that the invention is not limited thereto but is capable of various modifications.

We claim:

1. A two-part dispensing container for a roll of slot insulating material, comprising two opposed, like members disposed in reversed, face-to-face relation, each member including a substantially square shaped body portion defined by four marginal fold lines and four like flaps, one bent along each of said fold lines in a direction toward the other member and normal to the plane of the body portion, each of said flaps including a first portion relatively short in said normal direction, and a second portion relatively long in said normal direction, the said second portion of each flap of each of the opposed members overlapping and secured to the said first portion of each flap of each of the opposed members, said flaps forming the four sides of said container.

2. A two part container for a roll of slot insulating material as defined in claim 1 wherein said first portion of each flap is relatively long in a direction parallel to the adjacent marginal fold line, and wherein said second portion of each flap is relatively short in a direction parallel to the said adjacent marginal fold line.

3. A two-part container for a roll of slot insulating material as defined in claim 1 wherein each of the opposed, like members is recessed at one corner thereof with the recess of one member opposite the recess of the other member to form at one corner of the container an opening extending across said one corner through which the slot insulating material of an enclosed roll may be drawn.

4. A two part container for a roll of slot insulating material as defined in claim 1 wherein each of the opposed, like members is recessed at each of the corners thereof to form an opening extending across each corner of the container through any one of which the slot insulating material of an enclosed roll may be drawn.

5. A two part container for a roll of slot insulating material as defined in claim 1 wherein each of said marginal fold lines has a lateral offset therein adjacent the point where the innermost edge of the second portion of the flap of one member overlaps the first portion of the opposed flap of the other member, to enable overlapping of said first portion by said second portion without bulging or outward projection.

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HENRY WEIRICH.

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