Feb. 23, 1954 R. M. WILSON 2,670,075

PACKAGED FENCE POST ASSEMBLY

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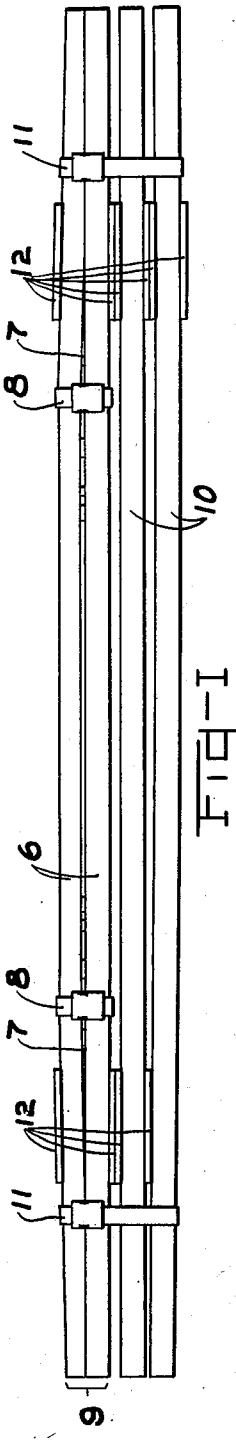


FIG-1

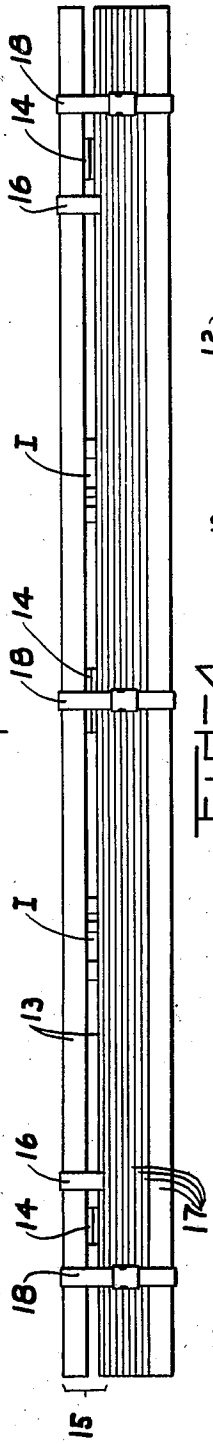


FIG-4

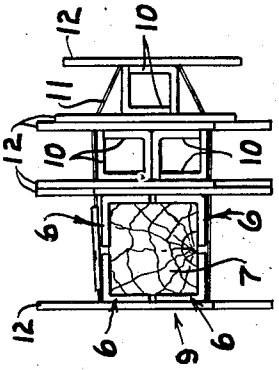


FIG-2

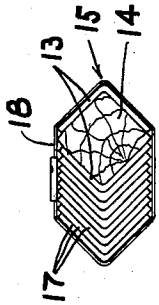


FIG-5

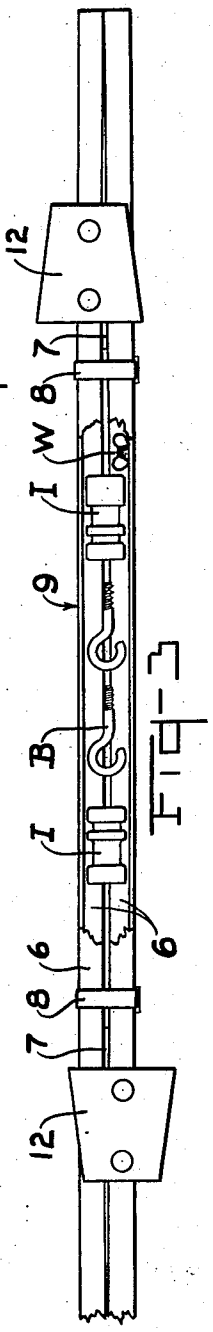


FIG-7

INVENTOR
Robert M. Wilson
BY Roy A. Plant
ATTORNEY

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PACKAGED FENCE POST ASSEMBLY

Robert M. Wilson, Battle Creek, Mich., assignor to Dare Products, Incorporated, Battle Creek, Mich., a corporation of Michigan

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10 Claims. (Cl. 206—47)

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The present invention relates broadly to packaging, and in its specific phases to the packaging of angle iron type electric fence posts together with insulators and mounting members for same.

Conventional electric fences, in addition to wire and an electric charging means for the wire, include metal posts, insulators for supporting the fence wire or wires, and bolts for mounting the insulators on the posts. Heretofore, according to general practice, the insulators and bolts have been commonly shipped in bulk by the manufacturer to the dealer or retailer separately from the posts, and the purchaser has relied upon the dealer to supply him with the necessary number of insulators and bolts, according to the number of posts ordered. This procedure frequently entails mistakes wherein the purchaser finds he is short on insulators, bolts, or both. Moreover, the required posts may arrive one day and the insulators and bolts may not be received until later or may not arrive at all until reordered. Similar occurrences may even exist when the purchaser deals directly with the factory, under present-day procedure. It was a recognition of these problems, difficulties, and shortcomings of the prior practices in this field which lead to the conception and development of the present invention.

Accordingly among the objects of the present invention is the aim to overcome the noted difficulties by providing a novel unitary package containing a number of the posts (preferably ten) and all the insulators and bolts required therefor. Thus, whether the purchaser deals directly with the factory or with a dealer, it is insured that all requisite elements arrive together.

Another object is to provide a package in which a plurality of the posts are cooperatively associated with end blocks to form an elongated tubular casing which contains the insulators and bolts, and as the posts are customarily of angle-iron form they may easily be engaged with the corners of square blocks to provide said casing.

A further object is to provide a package in which additional posts are secured in compact relation to the above mentioned tubular casing of posts and blocks, the number of posts in the complete package being limited only by the number of insulators and bolts which may be placed in said tubular casing, although it is preferable that said package contain ten posts, along with a suitable number of insulators and bolts.

A further object is to provide a unitary shipping package which is easy to produce, low cost, economical of shipping costs, convenient to the dealer and ultimate user alike, and readily handled.

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Still further objects and advantages of the present invention will appear as the description proceeds.

To the accomplishment of the foregoing and related ends, the invention, then, consists of the packaging means hereinafter fully described and particularly pointed out in the claims, the annexed drawing and the following description setting forth in detail certain means for carrying out the invention, such disclosed means illustrating, however, but several of the various ways in which the principle of the invention may be used.

In the annexed drawing:

Figure 1 of the accompanying drawing is a side elevation of one form of the package.

Figure 2 is an end view of the package shown in Figure 1.

Figure 3 is a side elevation, partly broken away, showing the tubular casing at the upper portion of Figure 1, and a number of the insulators and bolts therein.

Figure 4 is a side elevation showing a different form of the package.

Figure 5 is an end view of the package shown in Figure 4.

The form of construction shown in Figures 1, 2, and 3 is used when the posts are provided with anchor plates for reception in the ground. In this form, four angle iron posts 6 are assembled around two square end blocks 7, and said posts and blocks are bound together by metal bands 8. The four longitudinal corners of each of the blocks 7 are received in the angles of the four posts 6 respectively as seen in Figure 2, and said blocks are of such size that the edges of adjacent posts are in only slightly spaced relation with each other. Thus, the posts 6 and blocks 7 jointly form an elongated tubular casing 9. In this casing, all required insulators I and bolts B are placed, and they may be within a corrugated wrapper or tube (not shown) if desired. Only a few of the insulators and bolts are shown, for illustrative purposes.

Six additional posts 10 (normally identical with posts 6) are shown in Figures 1 and 2 compactly arranged on the exterior of the casing 9 where they are secured by metal bands 11. For convenience these posts 10 are preferably disposed at one side of the casing 9 and arranged as shown. By constructing the general assem-

bly as thus shown and described, the anchor plates 12 of the various posts 6 and 10 do not interfere with the formation of the package.

In Figures 4 and 5 a package is shown including angle iron posts 13 and 17, normally larger than posts 6 and 10, and having no anchor plates. Two of the posts 13 are assembled with two square end blocks 14 to form an elongated tubular casing 15 containing the bolts and insulators for all of the posts, said posts 13 and blocks 14 being secured together by metal binding bands 16. Two diagonally opposite corners of each of the blocks 14 are disposed in the angles of the two posts 13 respectively, as seen in Figure 5. Eight additional posts 17 (normally identical with posts 13) are shown nested with each other and with one of the posts 13. These posts 17 are preferably secured to the casing 15 by metal binding bands 18 which are preferably between blocks 14 and the corresponding end of the bundle of posts to provide some bending of the posts to resiliently hold them together.

From the foregoing and the accompanying drawing it will be seen that I provide a simple unitary package containing a plurality of posts and all required insulators and bolts therefor, whether the posts be provided with anchor plates or be devoid of such plates. Ten posts are shown in each package but other numbers could, of course, be used. In fact, the only thing limiting the number of posts is the number of insulators and bolts which can be contained in the casing 9 or 15.

The end blocks are preferably, though not necessarily, of wood and while they may be held against slippage by friction as herein disclosed, it is of course possible to bolt them in place, perhaps using some of the insulator bolts for this purpose. The showing in the drawing is to be considered as diagrammatically illustrative of this as well as other minor variations which may be made within the scope of the invention. It may be further stated, however, that the invention is not restricted to a package containing elements for an electric fence, as the elements within the casing 9 or 15 could well be used for other purposes, even mere fasteners for securing fence wires to the posts for the erection of an ordinary fence.

Other modes of applying the principle of my packaging invention may be employed instead of those explained, change being made as regards the combinations herein disclosed, provided the means stated by any of the following claims or the equivalent of such stated means be employed.

I therefore particularly point out and distinctly claim as my invention:

1. A unitary package containing posts, insulators and bolts for use in erecting an electric fence, said package including end blocks cooperatively associated with at least some of said posts to provide an elongated casing, said insulators and bolts being confined in said casing, and means holding the posts and blocks in assembled relation, wherein said posts are of right angular form in transverse section, and said blocks have corners received in the angles of the associated parts.

2. A unitary package containing posts, insulators and bolts for use in erecting an electric fence, said package including end blocks cooperatively associated with at least some of said posts to provide an elongated casing, said insulators and bolts being confined in said casing, and means holding the posts and blocks in assembled relation, wherein said posts are of right angular form in transverse section, with at least two of said posts being cooperable with said blocks in forming said casing, said blocks being substantially square in section and each having two of its diagonally opposite corners received in the angles of said two posts respectively.

3. A unitary package containing posts, insulators and bolts for use in erecting an electric fence, said package including end blocks cooperatively associated with at least some of said posts to provide an elongated casing, said insulators and bolts being confined in said casing, and means holding the posts and blocks in assembled relation, wherein said posts are of right angular form in transverse section, with four of said posts being cooperable with said blocks in forming said casing, said blocks being substantially square in section and each having its four corners received in the angles of said four posts respectively.

4. In a unitary package of the class described, fence posts and end blocks cooperatively associated with each other in forming an elongated casing, elements confined with said casing for use with said posts in erecting a fence, and means for holding said posts and blocks in assembled relation, wherein said posts are of right angular form in transverse section, with said blocks having corners received in the angles of the associated parts.

5. In a unitary package of the class described, fence posts and end blocks cooperatively associated with each other in forming an elongated casing, elements confined with said casing for use with said posts in erecting a fence, and means for holding said posts and blocks in assembled relation, wherein said posts are of right angular form in transverse section, at least two of said posts being cooperable with said blocks in forming said casing, said blocks being substantially square in section and each having two of its diagonally opposite corners received in the angles of said two posts respectively.

6. In a unitary package of the class described, fence posts and end blocks cooperatively associated with each other in forming an elongated casing, elements confined with said casing for use with said posts in erecting a fence, and means for holding said posts and blocks in assembled relation, wherein said posts are of right angular form in transverse section, four of said posts being cooperable with said blocks in forming said casing, said blocks being substantially square in section and each having its four corners received in the angles of said four posts respectively.

7. A unitary package containing a multiplicity of like size fence posts, together with insulators and bolts for use in erecting an electric fence, a block at each end of said package but spaced a short distance inwardly therefrom and cooperatively associated with at least two of said posts to provide an elongated casing therebetween, said insulators and bolts being confined in said casing between said blocks, and means holding the posts and blocks in assembled relation.

8. A structure as specified in claim 7; wherein said holding means consists of binding bands surrounding the package and located respectively between the end of said package and the block adjacent thereto.

9. In a unitary fence package of the class described, a multiplicity of like size fence posts, a block at each end of said package but spaced

inward a short distance therefrom, said posts and blocks being cooperatively associated with each other in forming an elongated hollow casing therebetween, elements confined within said casing for use with said posts in erecting a fence, additional like size fence posts adjacent but outside the casing formed by said first named posts, and means for holding all of said posts and blocks in assembled relation.

10. A structure as specified in claim 9; wherein said holding means consists of binding bands

surrounding the package and located respectively between the end of said package and the block adjacent thereto, said bands also holding said additional posts to the casing formed by said first named posts.

ROBERT M. WILSON.

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