Dec. 14, 1948. R. C. SEYFORTH 2,456,332

HARDWARE PACKAGE AND DISPLAY

Filed Oct. 4, 1945

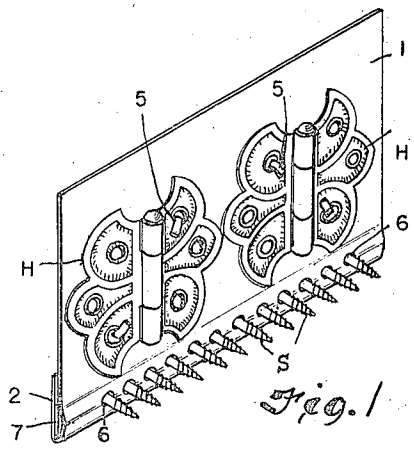


Fig. 1

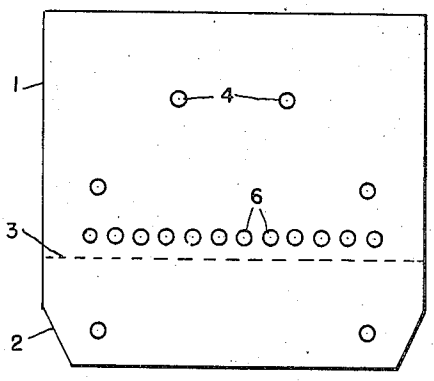


Fig. 2

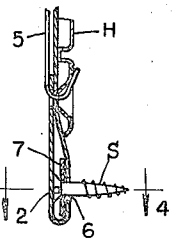


Fig. 3

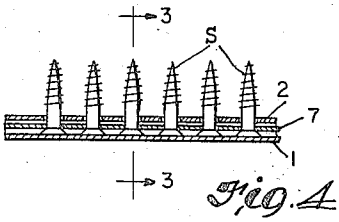


Fig. 4

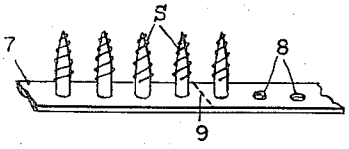


Fig. 5

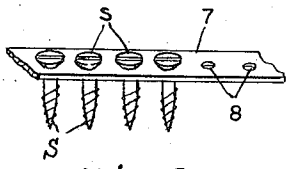


Fig. 6

INVENTOR.
ROME C. SEYFORTH

BY

Oberlin & Limbach
ATTORNEYS

Patented Dec. 14, 1948

2,456,332

UNITED STATES PATENT OFFICE

2,456,332

HARDWARE PACKAGE AND DISPLAY

Rome C. Seyforth, Shelby, Ohio, assignor to The Shelby Metal Products Company, Shelby, Ohio, a corporation of Ohio

Application October 4, 1945, Serial No. 620,201

1 Claim. (Cl. 206—80)

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The present improvements, relating as indicated to hardware packages and displays, have more particular regard to a display card such as disclosed in U. S. Patent No. 1,890,181 to L. N. Hoffman, dated December 6, 1932, which is designed to carry an article such as a hardware fitting, together with the proper number of fastening screws required for the installation and attachment of such article.

Ordinarily articles of the character in question are packaged in small cartons in which the requisite number of screws is included either loose, or at the best wrapped in a small piece of paper. On the other hand, where the article is attached to a card for the purpose of display, the screws or equivalent fastening means require to be sorted out from a bin and separately dispensed to the customer. With either of the foregoing methods, not infrequently mistakes are made not only in the number of screws supplied but in the latter case in the selection of the proper screws.

In the above-identified patent it is proposed to overcome the foregoing difficulties by securing the hardware article to the display face of a card with the screws or other headed fasteners secured to the same card by being inserted from the back of the card through suitable openings therein so that their shanks will project from such display face, their heads and thus the fasteners themselves being maintained in place by a portion of the card which forms a folded flap portion.

One principal object of the present invention is to provide in a display card or package of the type just described means for mounting and inserting the desired number of fasteners without having to place them individually in the card. A further object is to insure against mistakes or omissions in inserting such required number of fasteners. Still a further object is to provide a mounting for screws or like fasteners to which they may be affixed by mechanical means, thus further reducing the amount of manual labor involved in assembling display packages or cards of the type in question.

To the accomplishment of the foregoing and related ends, said invention then consists of the means hereinafter fully described and particularly pointed out in the claim.

The annexed drawing and the following description set forth in detail certain mechanism embodying the invention, such disclosed means constituting, however, but one of various mechanical forms in which the principle of the invention may be used.

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In said annexed drawing:

Fig. 1 is a perspective view of a display card or package embodying my present improvements, such card being shown as having a typical hardware article with requisite number of screws therefor attached to its front or display face;

Fig. 2 is a plan view of such card in its unfolded position without such parts attached thereto;

Fig. 3 is a vertical broken section through the lower portion of such card showing my improved mounting whereby such screws are attached to the card;

Fig. 4 is a broken transverse section of the same portion of the card, the plane of the section being indicated by the line 4—4 Fig. 3;

Fig. 5 is a broken perspective view of the mounting strip which carries the screws or like fasteners; and

Fig. 6 is a similar broken perspective view showing the reverse side of such strip.

Referring first to Figs. 1 and 2, the display card proper, as in the case of the patented device, is designed to carry on its front or display face an article H of hardware or the like, shown for the purpose of illustration as consisting of a pair of ornamental cupboard hinges together with the requisite number of screws S for affixing the same, such number, likewise for purpose of illustration only, being assumed to be twelve. It will be understood that any descriptive legend, dimension indicia or the like (not shown) as may be desired can be imprinted on the front face to which the articles in question are thus attached. As before, the card comprises a main body portion 1 having a lower portion 2, preferably marked off by means of a crease 3, which is adapted to be folded back against the rear face of such main body. The proper number of holes 4 occupying properly spaced relation, is provided in the main body portion through which any suitable fastening means, such as clips 5, may be passed in order to secure the article H to the front face of the card. Similarly a series of holes 6 is provided parallel with and slightly spaced from the lower edge of such main body portion, through which holes the shanks of the screws S are designed to project.

As best shown in Figs. 3 and 4 of the drawing, said screws S are not inserted directly through holes 6, but are carried by a tape or strip 7 which initially, as shown in Figs. 5 and 6, may, and will preferably, be of indefinite length. Such strip 7 will preferably be made of light weight cardboard or heavy paper, but any equivalent material capable of receiving and holding the screws

in the manner now to be described may be utilized. Such screws or equivalent headed fasteners are thus secured to the tape by simply having their pointed shanks pushed therethrough from one side of the strip or tape until their heads are brought into contact with the adjacent side. To facilitate such insertion, the strip may be preliminarily punched or otherwise formed with perforations 8; these, however, will be of smaller diameter than that of the screw shanks adjacent the heads thereof so that when inserted the screws will be frictionally held against displacement.

The strip to which screws have thus been attached is then severed transversely at spaced points 9 to provide lengths or sections which carry the proper number of screws for assembly with the particular display card. It will be noted that the holes 6 along the lower edge of the latter through which the shanks of the screws carried by such strip section 7 protrude will be slightly larger in diameter than such shanks so that the whole series of screws may be very easily and quickly brought into register with and simultaneously inserted through such holes. The strip with the screws carried thereby is then secured in place by folding the flap 2 so as to contact with the rear portion of the strip, i. e. that against which the heads *s* of the screws lie. One of the staples or fasteners 5 whereby the article of hardware is secured to the face of the card may be conveniently used also to hold such flap in the folded position just described.

It will be evident that the insertion of the screws in strip 7 may be easily and rapidly carried out even where the operation is manually performed and that such operation can be further expedited by using a screw feeding machine in conjunction with a mechanism which will feed a continuous length of the tape with a step-by-step movement, the length of the steps corresponding with the desired spacing of the screws. In any event, the manual operation of assembling the screws in the display card is greatly simplified and since the cut sections being used will always carry exactly the right number of screws there is no danger of one or more being accidentally omitted from the assembly.

Other modes of applying the principle of my invention may be employed instead of the one explained, change being made as regards the mechanism herein disclosed, provided the means stated by the following claim or the equivalent of such stated means be employed.

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

In a display device for hardware and like articles requiring screws or equivalent headed fasteners, the combination with a card having a face portion adapted to have such article attached thereto and a series of apertures adapted to receive such fasteners with their shanks projecting therethrough, of a separate flat strip of paper frictionally carrying such fasteners in proper spaced relation to be received in such apertures, and a flap extension to said card adapted to be folded against the back thereof in overlying relation to said strip, said strip and the fasteners carried thereby being held from displacement longitudinally and laterally relative to said card by the apertures in said card through which the shanks of such fasteners project.

ROME C. SEYFORTH.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,431,869	Bergen	Oct. 10, 1922
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2,012,615	Mason	Aug. 27, 1935