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W. W. McCARROLL

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SHIPPING CONTAINER FOR PRINTING PLATES, ELECTROTYPERS' MATS, ETC

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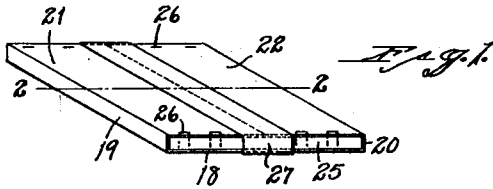
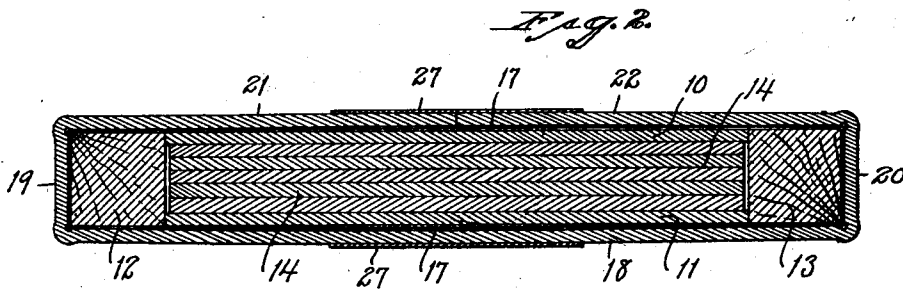


Fig. 3.

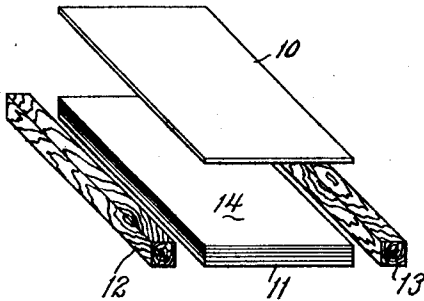


Fig. 4.

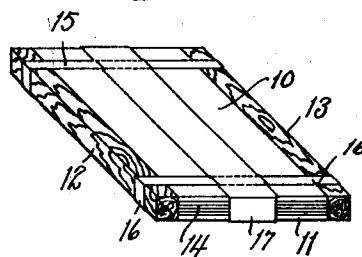
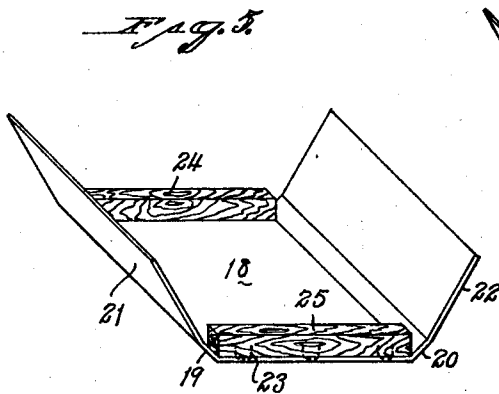
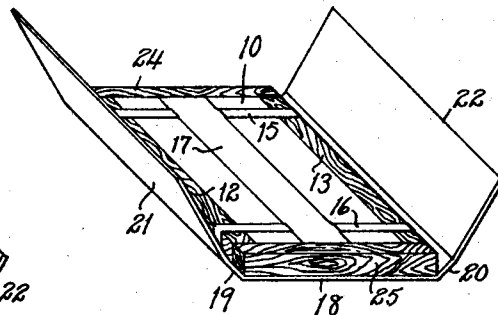


Fig. 5.



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SHIPPING-CONTAINER FOR PRINTING PLATES, ELECTROTYPERS' MATS, ETC.

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This invention relates to an improvement in shipping-containers and particularly to shipping-containers designed for shipping printing plates and electrotypers' mats, though available for various other uses.

The main object of this invention is to provide at a low cost for manufacture a simple, reliable and sturdy shipping-container of the type referred to, constructed with particular reference to convenience of use.

With the above and other objects in view as will appear from the following, my invention consists in a shipping-container having certain details of construction and combinations of parts as will be hereinafter described and particularly recited in the claims.

In the accompanying drawing:

Fig. 1 is a perspective view of a shipping-container embodying my invention, shown as ready for shipment;

Fig. 2 is a transverse sectional view thereof taken on the line 2—2 of Fig. 1, but on a larger scale;

Fig. 3 is a perspective view of the elements of the inner package, showing the printing plates in place preparatory to fastening the parts together as in the succeeding figure;

Fig. 4 is a perspective view of the inner package completed and ready for insertion into the outer casing;

Fig. 5 is a perspective view of the outer casing shown as open and ready for the reception of the inner package illustrated in the preceding figure; and

Fig. 6 is a view corresponding to Fig. 5, but showing the inner package in place preparatory to closing and fastening the outer casing.

In carrying out my invention as herein shown, I employ what I shall for convenience of description designate as an "inner package," consisting in the main of top- and bottom-pads 10 and 11, preferably formed of relatively stiff cardboard and a pair of complementary side-guard bars 12 and 13, rectangular in cross-section and preferably formed of wood (Fig. 3).

A desired number of printing plates 14 are stacked upon the bottom-pad 11, after which the top-pad is placed over the upper face of

the stack of plates, and the side-guard bars 12 and 13 are brought against the side edges of both the pads 10 and 11 and the plates aligned therebetween. The parts just above referred to are now secured together into a unitary package preferably by two (more or less) transverse straps 15 and 16 of gummed paper and a longitudinal strap 17 of similar material. As thus assembled, the pile of printing plates 14 has its respective opposite faces protected by the top- and bottom-pads 10 and 11 and its side edges protected by the side-guard bars 12 and 13.

In conjunction with the inner package just above described, I employ an outer casing consisting of a sheet of cardboard suitably scored to virtually divide the same into articulated sections consisting of a bottom-panel 18, relatively narrow side-panels 19 and 20, and complementary top-flaps 21 and 22.

Secured to the respective opposite ends of the bottom-panel 18 by means of staples 23 or other suitable means, are a pair of complementary end-guard bars 24 and 25 extending substantially the full width of the said bottom-panel and organized therewith, as before stated, by means of the staples 23 or other suitable means. The so-called "end-guard bars" 24 and 25 are preferably made of wood or other suitable nail-permeable and nail-retentive material, for the purpose as will hereinafter appear, and together, bars 12 and 13 may be appropriately designated "marginal-guard bars."

The bottom-panel 18 is of a width substantially corresponding to the width of the inner package shown in Fig. 4 and of a length between the end-guard bars 24 and 25 to also snugly accommodate the said inner package, as clearly shown in Fig. 6.

After the positioning of the inner package upon the bottom-panel 18 of the outer casing as above described and as shown in Fig. 6, the flaps 21 and 22 are folded over upon the upper faces of the nail-permeable end-guard bars 24 and 25 and secured in place by means of staples 26.

For further security, the flaps 21 and 22 are held together by a longitudinal strap of

gummed paper 27, as clearly shown in Fig. 1. In the completed shipping-container, as described above, the relatively heavy and sharp-edged printing plates 14 are shielded on their respective opposite sides by the side-guard bars 12 and 13, forming a feature of the so-called "inner package," and on their respective opposite ends by the end-guard bars 24 and 25, forming a feature of the outer casing, so that despite rough handling, they will not only be preserved against bruising, but will be prevented from cutting through the package itself as has been almost unavoidable in connection with the use of packages of the prior art.

I find it highly convenient when preparing printing plates for shipment to organize one pair of edge-guard bars, such as the end-guard bars 24 and 25, with the outer casing, and organizing the side-guard bars 12 and 13 with the printing plates themselves, prior to their introduction into the outer casing.

As above pointed out, the end-guard bars 24 and 25 are preferably made of wood or equivalent material capable of being self-sustaining and penetrated by staples, nails or like fastening means, so that the flaps 21 and 22 may be readily and conveniently secured in place.

In shipping lighter articles such as electrotypers' mats, I have found that the outer casing itself is adequate without the employment of the inner package and when shipping such light articles, they are merely laid upon the bottom-panel 18 between the end-bars 24 and 25 and the flaps are folded over the tops of the latter and stapled or otherwise secured in place.

It will be understood by those skilled in the art that my invention may assume varied physical forms without departing from my inventive concept and I, therefore, do not limit myself to the specific embodiment herein chosen for illustration, but only as indicated in the appended claims.

I claim:

1. A shipping-container of the type referred to consisting of a pair of marginal-guard bars respectively located against the opposite edges of the goods to be shipped and organized therewith into a unitary inner package; an outer casing; and a pair of complementary marginal-guard bars secured to the said casing and extending at a right angle to the marginal-bars first mentioned to complement the same in protecting the edges of the contained goods.

2. A shipping-container of the type referred to consisting of top- and bottom-pads between which the goods to be shipped are located; a pair of complementary marginal-guard bars respectively located at the opposite edges of the goods and organized therewith and with the said top- and bottom-pads into a unitary inner package; a casing; and a

pair of complementary marginal-guard bars secured to the said casing and extending at a right angle to the marginal-bars first mentioned to complement the same in protecting the edges of the contained goods.

3. A shipping-container of the type referred to consisting of a pair of marginal-guard bars respectively located against the opposite edges of the goods to be shipped and organized therewith into a unitary inner package; a foldable outer casing consisting of a bottom-panel and one or more foldable top-flaps; and a pair of complementary marginal-guard bars secured to the bottom-panel portion of the said casing and extending at a right angle to the marginal-guard bars first mentioned to complement the same in protecting the edges of the contained goods; the said top-flaps being folded over the upper faces of the said guard-bars and secured in place thereover.

4. A shipping-container of the type referred to consisting of top- and bottom-pads between which the goods to be shipped are located; a pair of complementary marginal-guard bars respectively located at the opposite edges of the goods and organized therewith and with the said top- and bottom-pads into a unitary inner package; a foldable outer casing consisting of a bottom-panel and one or more foldable top-flaps; and a pair of complementary marginal-guard bars secured to the said casing and extending at a right angle to the marginal-bars first mentioned to complement the same in protecting the edges of the contained goods.

5. A package of the type referred to consisting of a pair of marginal-guard bars respectively located against the opposite edges of the goods to be shipped and organized therewith into a unitary inner package; a foldable outer casing consisting of a bottom-panel and one or more foldable top-flaps; and a pair of complementary nail-permeable marginal-guard bars secured to the bottom-panel portion of the said casing and extending at a right angle to the marginal-bars first mentioned to complement the same in protecting the edges of the contained goods; the said top-flaps being folded over the upper faces of the said guard-bars and secured in place thereover by means of nails passing through the flaps and into the said nail-permeable guard-bars.

In testimony whereof, I have signed this specification.

WALKER W. McCARROLL.