

Aug. 19, 1947.

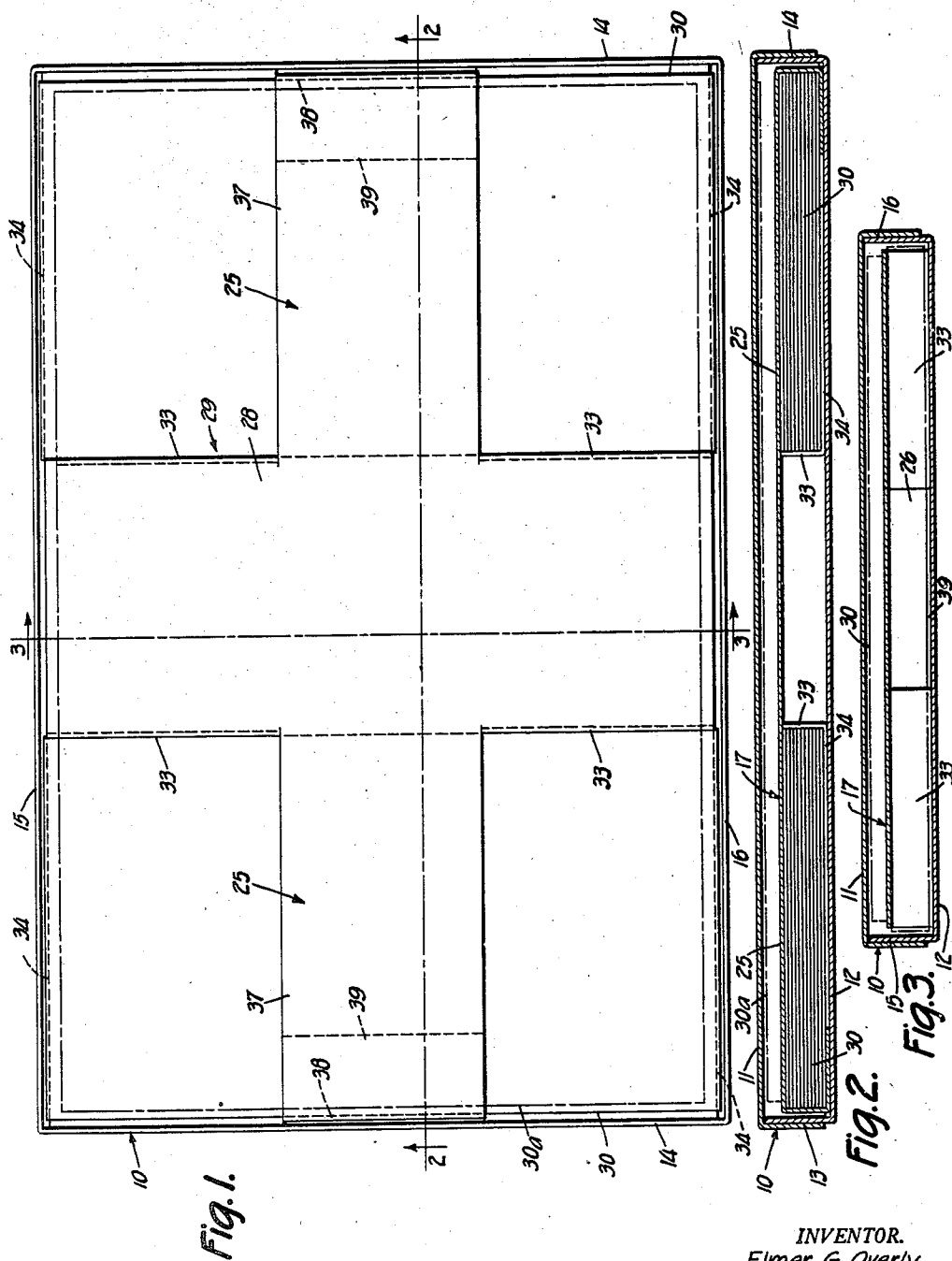
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PACKAGE UNIT FOR ENVELOPES AND PAPER

Filed Jan. 10, 1944

2 Sheets-Sheet 1



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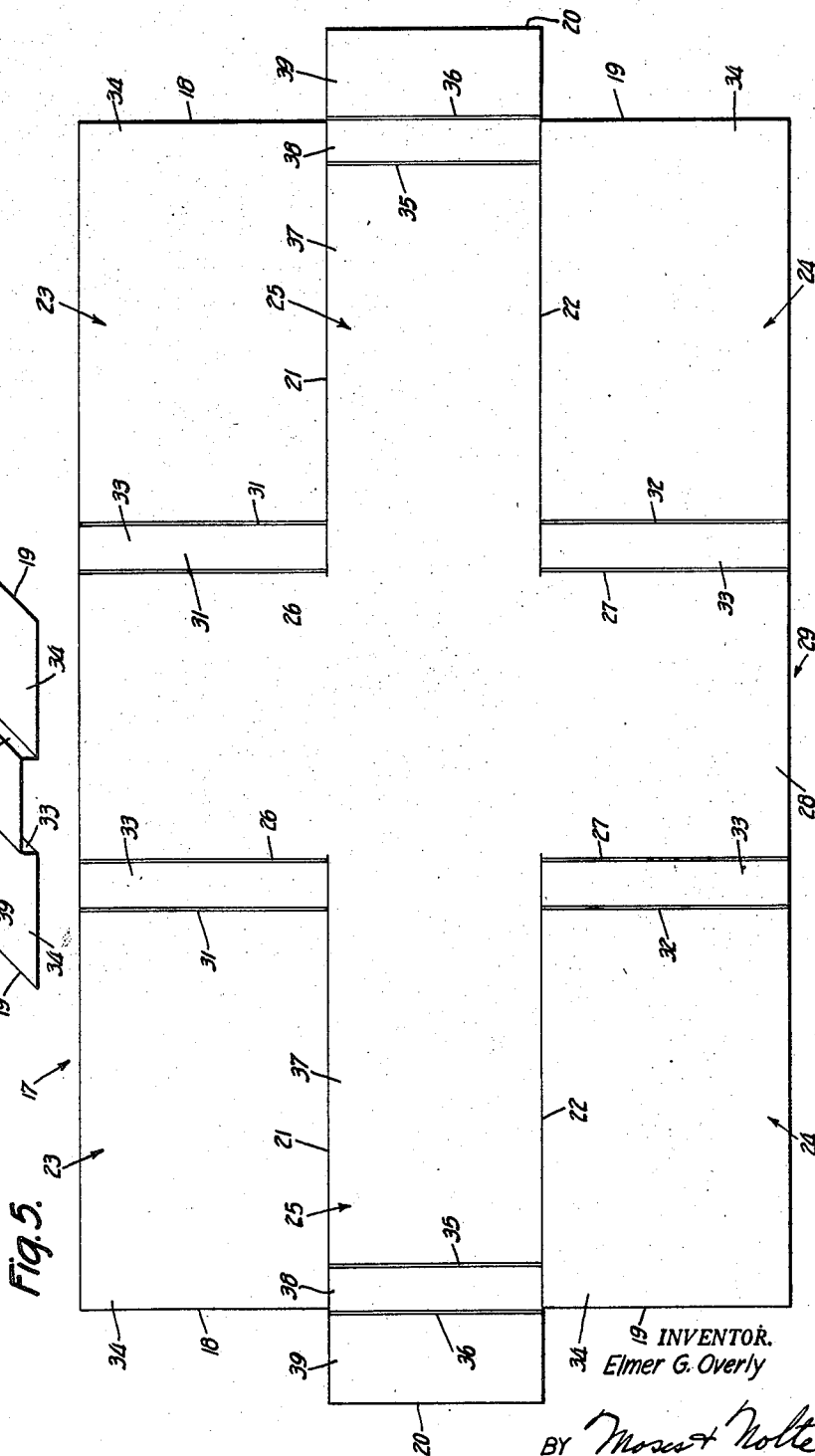
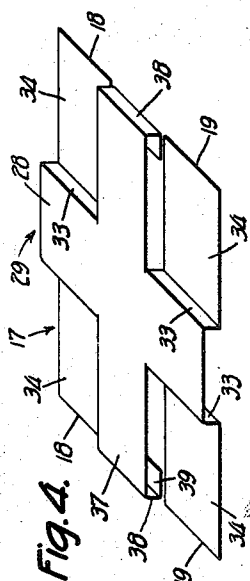
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UNITED STATES PATENT OFFICE

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PACKAGE UNIT FOR ENVELOPES
AND PAPER

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Application January 10, 1944, Serial No. 517,625

16 Claims. (Cl. 206—63)

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This invention relates to packages or package units for envelopes and paper, and more particularly to improvements in packages containing two packs of envelopes arranged transversely of the package and above said packs of paper to be used therein.

Heretofore it has been conventional to pack paper and envelopes in two packs held together by hands, in a box with a bridge between said two packs to hold them in place and to support the paper so that the envelopes, which may be in puffed form, will not be crushed. However, such support acts only at the bridge, and the ends of the paper tend to compress and crush the envelopes at such locations and also to produce looseness of the package in the box.

An object of this invention is to provide a packaging device comprising a bridge to separate packs of envelopes in a box and prevent crushing of the envelopes, and parts at opposite sides of the bridge to embrace said packs and serve as hands therefor.

Another object of the invention is to provide novel and advantageous packaging including means for banding packs of envelopes in a box, and adapted to support a pack of writing paper both at the middle and ends of the box, thereby preventing crushing of the envelopes and consequent looseness of the paper and envelopes in the box.

Another object of the invention is to provide a blank or bridge band of flat material adapted to be folded to provide at each end a band for embracing a pack of envelopes and at the middle a bridge whereby packs of envelopes in such bands will be protected from crushing, and paper placed upon said packs will be supported at the ends as well as at the middle.

A further object is to provide a box and a blank or bridge band of flat material so shaped and creased that it may be suitable to insert in said box and be retained in closed shape therein, thus providing a central bridge to support the central portion of paper placed above the packs of envelopes in the loops, and supports for the ends of said paper.

Other objects, features and advantages will appear upon consideration of the following detailed description and of the drawing in which:

Fig. 1 is a top plan view illustrating one embodiment of the invention;

Fig. 2 is a section along the section line 2—2 of Fig. 1;

Fig. 3 is a section along the line 3—3 of Fig. 1;

Fig. 4 is a perspective view of the bridge band in the form assumed in the box of Fig. 1; and

Fig. 5 is a top plan view of the blank which is to be folded into the form of the insert shown in Fig. 4.

Referring to the drawings, there is disclosed a

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box 10 having a top 11, a bottom 12, ends 13 and 14, and sides 15 and 16. In said box 10 is an insert or bridge strip 17 which is first formed as a blank (Fig. 5) by cutting and scoring from suitable material such as cardboard or heavy paper.

Ignoring any previous cutting, the blank or bridge strip 17 (Fig. 5) may be considered as cut from a strip of the width of the blank by means of cuts along transverse lines 18 and 19 at the side portions at each end; lines 20 at the central portions of the ends, and along longitudinal lines 21 and 22 separating side portions 23 and 24 from central portions 25 and extending to transverse fold or score lines 26 and 27 at the inner ends of said side portions 23 and 24. The arrangement is such that the free ends of the central portions extend beyond the free ends of the side portions 23 and 24.

The two sets of transverse score lines 26 and 27 determine the width of the top 28 of the bridge 29 which separates the two sets of envelopes 30 in the box 10. The two sets of side portions 23 and 24 are provided with fold lines or score lines 31 and 32 dividing side portions 23 and 24 respectively into parts, one part having a width equal to the proposed height of the bridge and serving as one of four legs 33 for the bridge and the other being a foot spacer 34 adapted to contact with the corresponding end of the box and in cooperation with the other spacers to prevent spreading of the lower ends of the legs or supports.

After the side portions 23 and 24 have been bent into shape (Fig. 4) for insertion into box 10, the packs of envelopes 30 are placed on the corresponding spacers 34 and beneath the corresponding central portions or bands 25 each of which is provided with a transverse fold or score line 35 just beyond the edge of the corresponding pack of envelopes and a second fold or score line 36 spaced from score line 35 a distance substantially equal to the height of the pack of envelopes. These scores provide a band having a top portion 37 an upright member or support 38 to be turned down at the outer edge of the pack and a tab 39 to be turned beneath the pack. The position assumed by the various parts when in use in the box 10 is illustrated in Fig. 4.

The packs of envelopes 30 may be placed in the insert or bridge strip 17 (Fig. 4) which is supported by the box bottom 12 on which the spacers 34 rest with their outer ends in engagement with one of said box ends 13 and 14, thus preventing spreading of said legs 33. Endwise movement of the envelopes is restricted by means of the box sides 15 and 16. The banding action for holding the envelope packs together is provided by the central members or bands 25 comprising top portion 37 above the envelopes, supports 38 at the outer sides of the packs, and tabs 39 beneath the packs at their outer edges.

Paper 30a placed on top of the insert will be supported by the bridge 29 and by the portions 37 of the outwardly projecting band members, the portions 37 being supported at the center by the bridge and at their outer ends by supports 38. The top or cover 11 may then be placed on the box and the package will be complete in a form in which the envelopes will not be crushed.

In addition to the advantages of using a bridge band to support the paper and prevent crushing of the envelopes and also hold the envelopes firmly in place without bands, it should be noted that not only is there produced a better package but there may be eliminated the necessity of banding small quantities of envelopes as they come off the envelope machines.

By the use of the new bridge banding, the operator can take each pack of 24 envelopes as it is produced on the envelope machine and split it before placing the envelopes in the stationery box and no recount would be necessary. It would make no particular difference if there were 10 envelopes on one side and 14 on the other so long as the box contained the full count, because of the manner in which the paper is supported. Furthermore, taking everything into consideration, the insertion of envelopes and paper in the box would be just as fast as if the envelopes and paper were banded in advance.

It should be understood that changes may be made and that certain features may be used without others, without departing from the true scope and spirit of the invention.

I have described what I believe to be the best embodiments of my invention. I do not wish, however, to be confined to the embodiments shown, but what I desire to cover by Letters Patent is set forth in the appended claims.

I claim:

1. The combination with a stationery box adapted to hold two packs of envelopes side by side and paper above said envelopes, of an insert of sheet material formed and folded to provide between the packs a pack-separating and paper-supporting bridge having an upper section extending substantially across the full width of said box and upright supporting means connected to the sides of said upper section, upright supports at the outer sides of said packs, and bands having a width substantially less than the width of said upper bridge section and extending from approximately the center of said upper bridge section across said packs, said bands being connected to the tops of said upright supports to cooperate with said bridge and support the paper above said envelopes as well as hold the envelopes in place, while permitting the packs of envelopes to extend beyond the sides of said band for easy removal of said envelopes from the bands.

2. The combination with a stationery box adapted to hold two packs of envelopes and paper above said envelopes, of an insert of sheet material formed and folded to provide a pack-separating and paper-supporting bridge having an upper section extending substantially across the full width of said box and an upright support forming an integral extension of said upper section at the inner side of each pack, upright supports at the outer sides of each of said packs and a band having a width substantially less than the width of said upper bridge section and extending from approximately the center of said upper bridge section across the top of each pack, each of said latter uprights being at one end an

extension of the corresponding band and having at its other end a tab extending under the pack.

3. The combination with a stationery box adapted to hold two packs of envelopes side by side and paper above said envelopes, of an insert of sheet material having bands extending from opposite ends thereof and folded to provide at the attached end of each band and at the inner side of a pack of envelopes an upright support with said band extending from the top thereof across the pack, downwardly along the opposite outer side of the pack to enclose that part of the pack and to serve as a support for the top part of the band, and under the edge of the pack to band and hold the envelopes in position, a bridge integrally comprising two of said supports being formed between the packs and serving together with the two supports at the outer sides of the packs to support paper placed above the envelopes and prevent crushing thereof, said bridge extending outwardly from the sides of said band a substantial distance.

4. The combination with a stationery box adapted to hold two packs of envelopes and paper above said envelopes, of an insert of flat material formed and folded to provide a paper-supporting bridge substantially as high as the tops of said packs comprising a flat top extending transversely of the box and legs turned down at the sides of the box and of the flat top and provided with off-turned feet resting on the bottom of the box, and bands of a width substantially less than the width of the central part of said top extending in opposite directions from said central part to the opposite ends of said box, then downwardly to the bottom of the box and inwardly beneath the packs, the downwardly extending parts of the bands cooperating with the parts over the packs in supporting paper placed in the upper part of the box.

5. The combination with a stationery box adapted to hold two packs of envelopes and paper above said envelopes, of an insert of flat material formed and folded to provide a paper-supporting bridge substantially as high as the tops of said packs comprising a flat top extending transversely of the box and a pair of spaced legs turned down at each side of said top, and bands between said legs extending in opposite directions from the central part of said top to the opposite ends of said box, downwardly to the bottom of the box and inwardly beneath the packs.

6. The combination with a stationery box adapted to hold two packs of envelopes and paper above said envelopes of an insert of flat material formed and folded to provide a paper-supporting bridge substantially as high as one of said packs comprising legs at opposite sides of the central portion of the bridge, and bands substantially narrower than the width of said central bridge portion extending in opposite directions from the top of said central portion over said packs to the ends of the box and downwardly to the bottom of the box.

7. A blank of flat material adapted to be folded into an insert for a stationery box to band packs of envelopes and protect them from crushing by paper placed above them, comprising a central transverse portion to serve as a bridge top, and separated central and side portions extending from the opposite sides of said bridge top, each of said side portions being provided with a score line at its connection with the bridge top and a second score line to set off a distance from the first substantially equal to the height of a pack

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and each of said central portions having a score line at a distance from the bridge equal to the width of a pack and a second score line spaced from the first a distance equal to the height of one of said packs.

8. An insert for a stationery box to band packs of envelopes and protect them from crushing by paper placed above them, said insert comprising a central transverse portion to serve as a bridge top and separated central and side portions extending from the opposite sides of said bridge top, each of said side portions being provided with a score line at its connection with the bridge top, and a second score line to set off a distance from the first substantially equal to the height of a pack, the portion between said score lines being folded to extend at right angles to the adjacent portions, and each of said central portions having a score line at a distance from the bridge equal to the width of a pack, and a second score line placed from the first a distance equal to the height of one of the packs, the portion between said score lines being folded to extend at right angles to the adjacent portions.

9. The combination with a stationery box adapted to hold two packs of envelopes side by side, of an insert for said box folded from a single sheet to form an intermediate pack separating section defining upstanding walls, said insert having two bottom substantially horizontal sections on which the two packs on opposite sides of said upstanding walls are adapted to be supported respectively, and having two band sections, each having a substantially horizontal top portion adapted to extend over a corresponding envelope pack, an intermediate upstanding portion adapted to extend along one side of said latter pack, and an end tab portion adapted to extend under said latter pack.

10. The combination as described in claim 9, in which the box has an opening at the top and a cover for said opening, and in which said insert has a height less than the height of the box to permit writing paper to be supported in said box on said insert.

11. The combination as described in claim 9, in which said insert is expansible into flat condition when out of said box, said insert fitting snugly into said box, and being retained in folded condition and against expansion by the side walls of said box.

12. The combination as described in claim 9, in which said band sections are of a width substantially smaller than the width of the box, whereby the envelopes wrapped in said band sections are exposed, and are readily accessible for removal from said band sections when the writing paper is raised from said box.

13. The combination as described in claim 9, in which the box has an opening at the top and a cover for said opening, and in which said insert has a height less than the height of the box to permit writing paper to be supported in said box on said insert, said insert being expansible into flat condition when out of said box and fitting snugly into said box, whereby said insert is retained in folded condition and against expansion by the side walls of said box, said band section being of a width substantially smaller than the width of the box, whereby the envelopes wrapped in said band sections are exposed and are readily accessible for removal from said band section when the writing paper is raised from said box.

14. An insert for a stationery box to maintain

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writing paper and envelopes in said box in separate orderly stacks, said insert comprising a single sheet formed and folded to form an intermediate upstanding wall section adapted to separate the envelopes into two stacks, said insert having two bottom substantially horizontal sections on which the two packs on opposite sides of said upstanding wall section are adapted to be supported respectively, and having two band sections, each having a substantial horizontal top portion adapted to extend over a corresponding envelope pack, an intermediate portion adapted to extend along one side of said latter pack, and an end tab portion adapted to extend under said latter pack, said insert being expansible into a flat sheet and being adapted to be retained in folded position merely by the confining action of the box.

15. An insert for a stationery box to maintain writing paper and envelopes in said box in separate orderly stacks, said insert comprising a single sheet formed and folded to form an intermediate upstanding wall section adapted to separate the envelopes into two stacks, said insert having two bottom substantially horizontal sections on which the two packs on opposite sides of said upstanding wall section are adapted to be supported respectively, and having two band sections, each having a substantial horizontal top portion adapted to extend over a corresponding envelope pack, an intermediate portion adapted to extend along one side of said latter pack, and an end tab portion adapted to extend under said latter pack, said band sections being imperforate, and having a width substantially smaller than the distance between the outer sides of the bottom sections, whereby the ends of said envelopes are exposed beyond the sides of said band sections, and are readily accessible for removal without disturbing the rest of the envelope stack.

16. A stationery package comprising a box, an insert in said box folded from a single sheet to form an intermediate section defining upstanding walls, said insert having two bottom substantially horizontal sections, two packs of envelopes in said box on opposite sides of said upstanding walls disposed on said bottom horizontal sections respectively, said insert having two band sections, each having a substantially horizontal top portion over a corresponding envelope pack, an intermediate upstanding portion along one side of said latter envelope pack, and an end tab portion extending under said latter pack, and a stack of writing paper over said insert.

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