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Description

This invention relates to business form assemblies, and more particularly, to such assemblies providing mailer assemblies.

The invention has particular reference to mailer assemblies capable of being processed in a non-impact printer and subsequently processed including being sealed to be suitable for mailing.

U.S. Specification No. 3411699, which document forms the basis of the precharacterising portion of the independent claims, describes a multiple use continuous envelope assembly including a cover sheet and a message sheet connected together and having end and marginal edges marginal lines of perforations and end lines of perforations as well as lines of adhesive which enable the message sheet and cover sheet to be formed into individual envelope assemblies.

In French Specification No. 1502067 there is described a document assembly comprising a letter card assembly closed by being glued together on four sides but having lines of perforations to enable information printed on the inside of the assembly to be ascertained.

British Specification No. 1564423 describes an assembly comprising a continuous web with fold lines and adhesive portions to enable the web to be folded and secured together to form an envelope assembly.

Australian Specification No. 27554/77 describes a combined document and envelope assembly comprising a document flap and a cover flap so that the cover flap may be folded over the document flap and sealed thereto to provide an envelope.

British Specification No. 809953 describes a continuous web assembly having two superspaced web portions with perforations to enable the margins to be removed to reveal a returnable printed document and which identifies the recipients.

Assemblies of the kind specified are not suitable for passing through non impact printers (usually of the laser imaging type) which generate sufficient heat to soften the heat softenable adhesive of the assemblies. If assemblies having such heat softenable adhesive were to be passed through such a printer the assembly would be likely to stick to the internal rollers of the printer and cause disruption.

The applicants have devised an assembly which overcomes this problem and which utilizes a separate message web and cover web in which the message web bears no adhesive and is capable of being fed through a non impact printer whereas the cover web bears the adhesive for securing the two webs when collated together and heat sealed.

An object of this invention is to provide an improved business form assembly of at least two webs for collation and sealing into mailer assemblies.

In a principal aspect, the invention refers to an improved business form assembly comprising a

message web having a message sheet and a cover web having a cover sheet. The message sheet has a longitudinal dimension between end edges along a longitudinal axis and a transverse dimension between marginal edges along a transverse axis. Marginal lines of perforations extend along the marginal edges fully between the end edges. Transverse end lines of perforations extend along the end edges only between the marginal lines of perforations. The message cover sheet has a longitudinal dimension between cover sheet end edges equal to the longitudinal dimension of the message sheet and a transverse dimension between cover sheet marginal edges equal to the transverse dimension of the message sheet. The cover sheet is superimposed upon the message sheet and has marginal lines of adhesive along the cover sheet marginal edges. These adhesive lines extend fully between the cover sheet end edges and are nearer the cover sheet marginal edges than the message sheet marginal perforation lines are to the message sheet marginal edges. Transverse, end lines of adhesive are along the cover sheet end edges, extending fully between the cover sheet marginal lines of adhesive and being nearer the cover sheet end edges than the message sheet end perforation lines are to the message sheet end edges. Preferably, cover sheet marginal and transverse, end lines of perforations are superimposed on the message sheet marginal and transverse, end lines of perforations. The marginal and end lines of adhesive adhere the cover sheet to the message sheet.

Other objects, advantages and features are part of the detailed description of the preferred embodiment. The detailed description follows a brief description of the drawing.

Brief description of the drawings

The preferred embodiment a mailer business form assembly in accordance with the present invention will be described by way of example in relation to the accompanying drawing, in which:

Fig. 1 is a plan view of a preferred mailer assembly invention, with a corner of a cover sheet turned back to reveal detail; and

Fig. 2 is a second plan view of the mailer assembly of Fig. 1, with the cover sheet and message sheet shortened to reveal detail.

Detailed description of the preferred embodiment

Referring to Figs. 1—2, the preferred embodiment of the invention is a business form assembly 4 comprising a message web 1, a cover web 2 and a back web 3. The webs 1, 2, 3 have superimposed, spaced series of transverse, margin-to-margin perforation lines 40; and superimposed, marginal feed strips 50. The webs 1, 2, 3 provide mailer assemblies hereinafter referred to as mailers, each mailer extending between adjacent perforation lines 40. Each mailer comprises a message sheet 5, a top cover sheet 6 and a bottom cover sheet 7. As will be described, when the assembly 4 is completed, the sheets 5, 6, 7 are

adhered to each other totally about their peripheries that is to say along their margins and across their centers.

The message sheet 5 is rectangular. It has a longitudinal dimension between a straight upper end edge 8 and a straight and parallel lower end edge 9. It has a transverse dimension between straight, parallel, marginal edges 10, 11. The sheet 5 has (and also the sheets 6, 7 have) pin feed holes in the feed strips 50).

A first message sheet marginal line of perforations 12 extends along and spaced from the first message sheet marginal edge 10. A second message sheet marginal line of perforations 13 extends along and spaced from the second message sheet marginal edge 11. The lines 12, 13 extend longitudinally, fully between the message sheet end edges 8, 9. The marginal edge 10 and line 12 define a first longitudinally extending margin 14 of the sheet 5. The edge 11 and line 13 define a second longitudinally extending margin 15.

A first, transverse end line of perforations 16 extends along but spaced from the end edge 8. A second, transverse end line of perforations 17 extends along but spaced from the end edge 9. The lines 16, 17 extend only between the marginal perforation lines 12, 13. The edges 8, 9 and lines 16, 17 define end strips 18, 19 on the sheet 5. Preferably, end strips 18, 19 have longitudinal widths approximately equal to each other.

The lines 12, 13, 16, 17 define a message area 23. The top cover sheet 6 has a longitudinal dimension between top cover sheet end edges 25, 26 equal to the longitudinal dimension of the message sheet 5 between its edge ends 8, 9. The top cover sheet 6 also has a transverse dimension between top cover sheet marginal edges 27, 28 equal to the transverse dimension of the message sheet 5 between its marginal edges 10, 11.

Marginal lines of perforations 29, 30 extend longitudinally along the top cover sheet marginal edges 27, 28. The lines 29, 30 define marginal strips 31, 32 on the sheet 6, which have a transverse width less than the width of the message sheet margins 14, 15.

A first, transverse end line of perforation 16' extends along and spaced from the end edge 25. A second, transverse line of perforations 17' extends along and spaced from the end edge 26. The lines 16', 17' extend only between the marginal lines of perforations 29, 30. The edges 25, 26 and lines 16', 17' define end strips 18', 19' on the sheet 6.

Within the marginal strips 31, 32, the sheet 6 has marginal lines of adhesive 33, 34. The adhesive lines 33, 34 extend fully between the top cover sheet end edges 25, 26. The adhesive lines are joined along the end edges 25, 26 by transversely extending, end lines of adhesive 35, 36. The lines 35, 36 are within the end strips 18', 19'. The adhesive lines 33, 34, 35, 36 circumscribe the periphery of the sheet 6. As most preferred, the adhesive lines 33—36 are a heat sealable adhesive. When heated, with the sheets 5, 6

separated from their webs or not, and the sheet 6 superimposed on the sheet 5, the adhesive adheres sheet 6 to sheet 5, outward of the perforation lines 12, 13, 16, 17 of the sheet 5 and in the margins 14, 15 and end strips 18, 19. The perforation lines 12, 13, 16, 17, 29, 30, 16', 17' remain useful to separate the message areas from the margins 14, 15 and end strips 18, 19. Pressure sensitive or remoistenable adhesive may be employed as an alternate to the heat sealable adhesive.

The sheets 5 and 6, so adhered, form a mailer assembly useful with or without the sheet 7. If used without the sheet 7, the assembly forms a message unit. Each message unit remains sealed, and may be opened by removal of the top cover sheet marginal strip 31, with the message sheet margin 14, along the perforation lines 29, 12. Since the perforation line 29 is offset from the line 12, an edge is created that can be manually grasped. A message area, such as 23, may then be separated from its message unit, along other perforation lines. As most preferred, all the transverse perforation lines 16, 20, 21, 17 are progressive, in that perforation size is large toward the edge 10, and is progressively reduced toward edge 11. These progressive perforations facilitate separation of the message areas.

When the assembly has a back cover sheet, the preferred back cover sheet 7 has longitudinal and transverse dimensions equal to those of the cover sheet 6. The sheet 7 also has a pattern of adhesive lines identical to that of sheet 6, and the same reference numbers are used to identify the adhesive lines on sheet 7 as are used on sheet 6. The sheet 7 may be a combined second message and bottom cover sheet, and may be a reversed, or turned over, duplicate of sheet 6, without the glassine window.

The preferred embodiment of the invention is now described.

The assembly may be fed into a collating and sealing machine with messages preprinted on the message areas. The sheets may be automatically collated, the message unit severed and sealed together. If preferred, the message units may be self-contained envelopes with transparent-covered windows, such as windows 37, shown on sheet 6.

By this invention we are able to provide an improved business form assembly which is capable of being printed upon by a non impact printer and yet is capable of having the webs thereof (or the sheets when divided into form lengths) sealed together by a heat sealing operation. We are also able to provide a customer with a large volume order of cover sheets and smaller volumes of different message sheets which different message sheets may be used for different purposes and may be put to many different uses.

The preferred embodiment may be varied, without departing from the invention. Therefore, to particularly point out and distinctly claim the subject matter regarded as invention, the following claims conclude this specification.

Claims

1. A business form assembly comprising:

a message web (1) having a message sheet (5), the message sheet having end edges (8, 9), marginal edges (10, 11) a longitudinal dimension between end edges (8, 9) along a longitudinal axis and a transverse dimension between the marginal edges (10, 11) along a transverse axis, marginal lines of perforations (12, 13) along the marginal edges of the message sheet extending fully between the end edges, transverse end lines of perforations (16, 17) extending along the end edges (8, 9) between the marginal lines of perforations (12, 13), and a cover web (2) having at least one cover sheet (6), each cover sheet (6) having cover sheet end edges (25, 26), cover sheet marginal edges (27, 28), a longitudinal dimension between the cover sheet end edges (25, 26) equal to the longitudinal dimension of the message sheet (5), a transverse dimension between the cover sheet marginal edges (27, 28) equal to the transverse dimension of the message sheet (5); characterized in that the message sheet does not have any areas of adhesive so as to be capable of being fed through a non impact printer to have a message applied to the web and that the cover sheet (2) is separate from the message sheet and has marginal lines of adhesive (33, 34) along the cover sheet marginal edges (27, 28) extending fully between the cover sheet end edges (25, 26) and being nearer the cover sheet marginal edges (27, 28) than the message sheet marginal perforation lines (12, 13) are to the message sheet marginal edges (10, 11), transverse end lines of adhesive (35, 36) along the cover sheet end edges (25, 26) extending fully between the cover sheet marginal lines of adhesive (33, 34) and being nearer the cover sheet end edges (25, 26) than the message sheet end perforation lines (16, 17) are to the message sheet end edges (8, 9), and with the cover sheet (6) superimposed upon the message sheet (5) and when passed together through a sealer the marginal and end lines of adhesive (35, 36) adhere the cover sheet (6) to the message sheet (5).

2. A continuous business form assembly comprises:

a message web (1) having a series of spaced, transverse perforation lines (40) and a plurality of message sheets (5) between the transverse perforation lines (40), each message sheet having end edges (8, 9) along the transverse perforation line (40), marginal edges (10, 11) a longitudinal dimension between the end edges (8, 9) along a longitudinal axis, and a transverse dimension between the marginal edges (10, 11) along a transverse axis, marginal lines of perforations (12, 13) along the marginal edges of the message sheet extending fully between the end edges (8, 9), transverse end lines of perforations (16, 17) extending along the end edges (8, 9) between the marginal lines of perforations (12, 13); and a cover web (2) having a series of spaced trans-

verse perforation lines (40) and a plurality of cover sheets (6) between the perforation lines (40), each cover sheet (6) having cover sheet end edges (25, 26) along the transverse perforation lines (40), cover sheet marginal edges (27, 28), a longitudinal dimension between the cover sheet end edges (25, 26) equal to the longitudinal dimension of the message sheet (5), a transverse dimension between cover sheet marginal edges (27, 28) equal to the transverse dimension of a message sheet (5); characterized in that the message sheets do not have any areas of adhesive so as to be capable of being fed through a non-impact printer to have a message applied to the web and each cover sheet (6) is separate from the corresponding message sheet and has marginal lines of adhesive (33, 34) along the cover sheet marginal edges (27, 28) extending fully between the cover sheet end edges (25, 26) and being nearer the cover sheet marginal edges (27, 28) than the message sheet marginal perforation lines (12, 13) are to the message sheet marginal edges (10, 11), transverse end lines of adhesive (35, 36) along the cover sheet end edges (25, 26) extending fully between the cover sheet marginal lines of adhesive (33, 34) and being nearer the cover sheet end edges (25, 26) than the message sheet end perforation lines (16, 17) are to the message sheet end edges (8, 9), and with the cover sheet (6) superimposed upon the message sheet (5) and when passed together through a sealer the marginal and end lines of adhesive (35, 36) adhere each cover sheet (6) to a message sheet (5).

Patentansprüche

1. Geschäftsformularsatz, mit einer Mitteilungsbahn (1) mit einem Mitteilungsblatt (5), das Endkanten (8, 9) und Randkanten (10, 11) aufweist, eine Längserstreckung zwischen den Endkanten (8, 9) entlang einer Längsachse und eine Quererstreckung zwischen den Randkanten (10, 11) hat, mit Randperforierungslinien (12, 13) versehen ist, die sich entlang seinen Randkanten über die volle Länge zwischen den Endkanten erstrecken, und quergerichtete Endperforierungslinien (16, 17) aufweist, die sich entlang den Endkanten (8, 9) zwischen den Randperforierungslinien (12, 13) erstrecken, und einer Deckbahn (2) mit wenigstens einem Deckblatt (6), wobei jedes Deckblatt (6) Endkanten (25, 26), Randkanten (27, 28), eine Längserstreckung zwischen seinen Endkanten (25, 26), die gleich ist der Längserstreckung des Mitteilungsblattes (5), und eine Quererstreckung zwischen seinen Randkanten (27, 28), die gleich ist der Quererstreckung des Mitteilungsblattes (5), hat dadurch gekennzeichnet, daß

das Mitteilungsblatt keine Bereiche mit Klebstoff hat, derart, daß es zum Abringen einer Mitteilung an der Bahn durch einen anschlagfreien Drucker hindurchförderbar ist,

das Deckblatt (2) vom Mitteilungsblatt getrennt ist und entlang seinen Randkanten (27, 28) Rand-

klebstofflinien (33, 34), die sich über die volle Länge zwischen seinen Endkanten (25, 26) erstrecken und sich näher an seinen Randkanten (27, 28) befinden als die Randperforierungslinien (12, 13) des Mitteilungsblattes an dessen Randkanten (10, 11), und entlang seinen Endkanten (25, 26) quergerichtete Klebstofflinien (35, 36), die sich über die volle Länge zwischen seinen Randklebstofflinien (33, 34) erstrecken und sich näher an seinen Endkanten (25, 26) befinden als die Endperforierungslinien (16, 17) des Mitteilungsblattes an dessen Endkanten (8, 9), aufweist,

das Deckblatt (6) auf das Mitteilungsblatt (5) aufgelegt ist,

und beim gemeinsamen Hindurchfördern durch eine Verschleißvorrichtung mittels der Rand- und Endklebstofflinien (35, 36) das Deckblatt (6) an das Mitteilungsblatt (5) anklebbar ist.

2. Endlos-Geschäftsformularsatz, mit einer Mitteilungsbahn (1) mit einer Reihe von im Abstand quergerichteten Perforierungslinien (40) und zwischen diesen einer Vielzahl von Mitteilungsblättern (5), von denen jedes Endkanten (8, 9) entlang den quergerichteten Perforierungslinien (40), Randkanten (10, 11), eine Längserstreckung zwischen den Endkanten (8, 9) entlang einer Längsachse, und eine Quererstreckung zwischen den Randkanten (10, 11) entlang einer Querachse hat, wobei entlang den Randkanten des Mitteilungsblattes Randperforierungslinien (12, 13) sich über die volle Länge zwischen den Endkanten (8, 9) erstrecken, und entlang den Endkanten (8, 9) quergerichtete Endperforierungslinien (16, 17) sich zwischen den Randperforierungslinien (12, 13) erstrecken, und

einer Deckbahn (2) mit einer Reihe von im Abstand quergerichteten Perforierungslinien (40) und zwischen diesen einer Vielzahl von Deckblättern (6), von denen jedes Endkanten (25, 26) entlang den quergerichteten Perforierungslinien (40), Randkanten (27, 28), eine Längserstreckung zwischen seinen Endkanten (25, 26), die gleich ist der Längserstreckung des Mitteilungsblattes (5), und eine Quererstreckung zwischen seinen Randkanten (27, 28), die gleich ist der Quererstreckung des Mitteilungsblattes (5), hat, daß dadurch gekennzeichnet, daß

die Mitteilungsblätter keine Bereiche mit Klebstoffauftrag haben, derart, daß sie zum Anbringen einer Mitteilung an der Bahn durch einen anschlagfreien Drucker hindurchförderbar sind,

jedes Deckblatt (6) vom zugehörigen Mitteilungsblatt getrennt ist und entlang seinen Randkanten (27, 28) Randklebstofflinien (33, 34), die sich über die volle Länge zwischen seinen Endkanten (25, 26) erstrecken und sich näher an seinen Randkanten (27, 28) befinden als die Randperforierungslinien (12, 13) des Mitteilungsblattes an dessen Randkanten (10, 11), und entlang seinen Endkanten (25, 26) quergerichtete Endklebstofflinien (35, 36), die sich über die volle Länge zwischen seinen Randklebstofflinien (33, 34) erstrecken und sich näher an seinen Endkanten (25, 26) befinden als die Endperforie-

rungslinien (16, 17) des Mitteilungsblattes an dessen Endkanten (8, 9), aufweist,

das Deckblatt (6) auf das Mitteilungsblatt (5) aufgelegt ist, und beim gemeinsamen Hindurchfördern durch eine Verschleißvorrichtung mittels der Rand- und Endklebstofflinien (35, 36) jedes Deckblatt (6) an ein Mitteilungsblatt (5) anklebbar ist.

Revendications

1. Un ensemble de formulaires d'affaires comprenant:

une bande (1) de message comportant une feuille de message (5), ayant des bords d'extrémité (8, 9) et des bords marginaux (10, 11), sa dimension longitudinale étant limitée par ces bords d'extrémité (8, 9) suivant un axe longitudinal, et sa dimension transversale étant limitée par ces bords marginaux (10, 11) suivant un axe transversal, des lignes marginales (12, 13) de perforations situées le long des bords marginaux de la feuille de message, et s'étendant sur toute la distance entre les bords d'extrémité, des lignes d'extrémité transversales (16, 17) de perforations s'étendant le long des bords d'extrémité (8, 9) entre les lignes marginales (12, 13) de perforations; et

une bande (2) de recouvrement comportant au moins une feuille de recouvrement (6), chaque feuille de recouvrement (6) ayant des bords d'extrémité (25, 26), des bords marginaux (27, 28), sa dimension longitudinale étant limitée par les bords d'extrémité (25, 26) et étant égale à la dimension longitudinale de la feuille de message (5), sa dimension transversale, entre ses bords marginaux (27, 28) étant égale à la dimension transversale de la feuille (5) de message, caractérisé en ce que la feuille de message ne comporte aucune zone d'adhésif afin de pouvoir être envoyée dans une imprimante fonctionnant sans percussion pour recevoir un message appliqué sur la bande, et en ce que la feuille de recouvrement (2) est distincte de la feuille de message et comporte des lignes marginales (33, 34) d'adhésif situées le long de ses bords marginaux (27, 28), s'étendant sur toute la distance entre ses bords d'extrémité (25, 26), et plus proches desdits bords marginaux (27, 28) de la feuille de recouvrement que les lignes marginales (12, 13) de perforations de la feuille de message ne le sont des bords marginaux (10, 11) de cette dernière; des lignes d'extrémité transversales (35, 36) d'adhésif situées le long des bords d'extrémité (25, 26) de la feuille de recouvrement, s'étendant sur toute la distance entre les lignes marginales (33, 34) d'adhésif de la feuille de recouvrement et plus proches des bords d'extrémité (25, 26) de la feuille de recouvrement que les lignes d'extrémité (16, 17) de perforations de la feuille de message ne le sont des bords d'extrémité (8, 9) de cette dernière, la feuille (6) de recouvrement étant superposée à la feuille (5) de message, si bien que, lorsqu'on les fait passer ensemble dans une colleuse, les

lignes marginales et d'extrémité (35, 36) d'adhésif collent la feuille de recouvrement (6) sur la feuille de message (5).

2. Ensemble continu de formulaires d'affaires comprenant:

une bande (1) de message ayant une série de lignes transversales espacées (40) de perforations et plusieurs feuilles de message (5) entre les lignes transversales (40) de perforations, chaque feuille de message ayant des bords d'extrémité (8, 9) le long des lignes transversales (40) de perforations, des bords marginaux (10, 11), sa dimension longitudinale étant limitée par les bords d'extrémité (8, 9) suivant un axe longitudinal, et sa dimension transversale étant limitée par les bords marginaux (10, 11) suivant un axe transversal, des lignes marginales (12, 13) de perforations le long des bords marginaux de la feuille de message qui s'étendent sur toute la distance entre les bords d'extrémité (8, 9), des lignes d'extrémité transversales (16, 17) de perforations s'étendant le long des bords d'extrémité (8, 9) entre les lignes marginales (12, 13) de perforations; et

une feuille (2) de recouvrement ayant une série de lignes transversales espacées de perforations (40) et plusieurs feuilles de recouvrement (6) entre les lignes de perforations (40), chaque feuille de recouvrement (6) ayant des bords d'extrémité (25, 26) le long des lignes transversales (40) de perforations, des bords marginaux (37, 38), sa dimension longitudinale, limitée par ses bords d'extrémité (25, 26), étant égale à la dimen-

sion longitudinale de la feuille de message (5), sa dimension transversale, limitée par ses bords marginaux (27, 28), étant égale à la dimension transversale d'une feuille de message (5), caractérisé en ce que les feuilles de message ne comportent aucune zone d'adhésif afin de pouvoir être envoyées dans une imprimante fonctionnant sans percussion pour recevoir un message appliqué sur la bande, en ce que chaque feuille (6) de recouvrement est distincte de la feuille de message correspondante et le long de ses bords marginaux (27, 28) des lignes marginales (33, 34) d'adhésif qui s'étendent sur toute la distance entre ses bords d'extrémité (25, 26) et sont plus proches des bords marginaux (27, 28) de la feuille de recouvrement que les lignes marginales (12, 13) de perforations de la feuille de message ne le sont des bords marginaux (10, 11) de la feuille de message; des lignes d'extrémité transversales (35, 36) d'adhésif qui s'étendent le long de ses bords d'extrémité (25, 26) sur toute la distance entre ses lignes marginales (33, 34) d'adhésif et sont plus proches des bords d'extrémité (25, 26) de la feuille de recouvrement que les lignes d'extrémité (16, 17) de perforations de la feuille de message ne le sont des bords d'extrémité (8, 9) de la feuille de message, la feuille de recouvrement (6) étant superposée à la feuille (5) de message si bien que, lorsqu'on les fait passer ensemble dans une colleuse, les lignes d'extrémité et marginales (35, 36) d'adhésif collent chaque feuille de recouvrement (6) sur une feuille de message (5).

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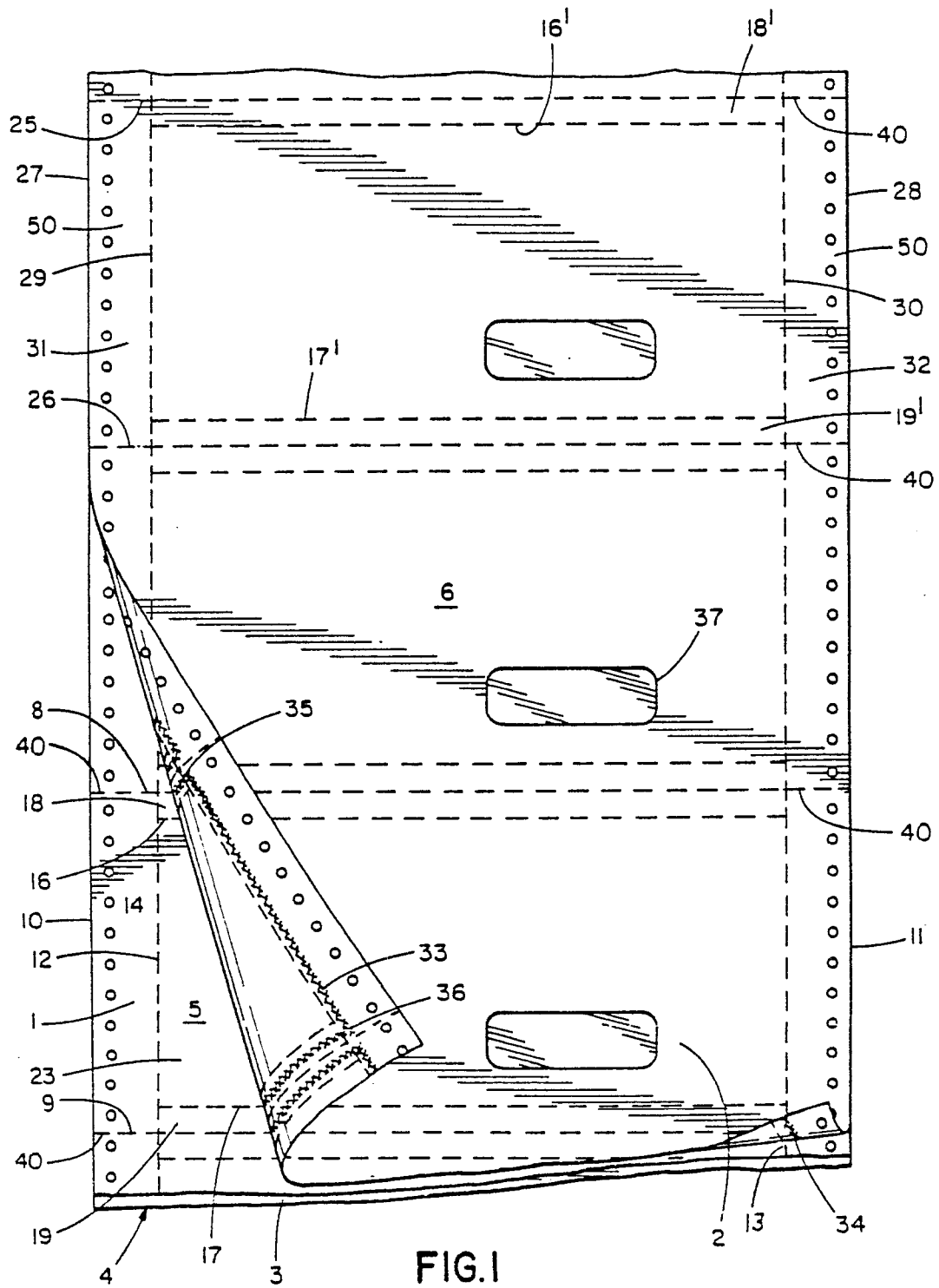
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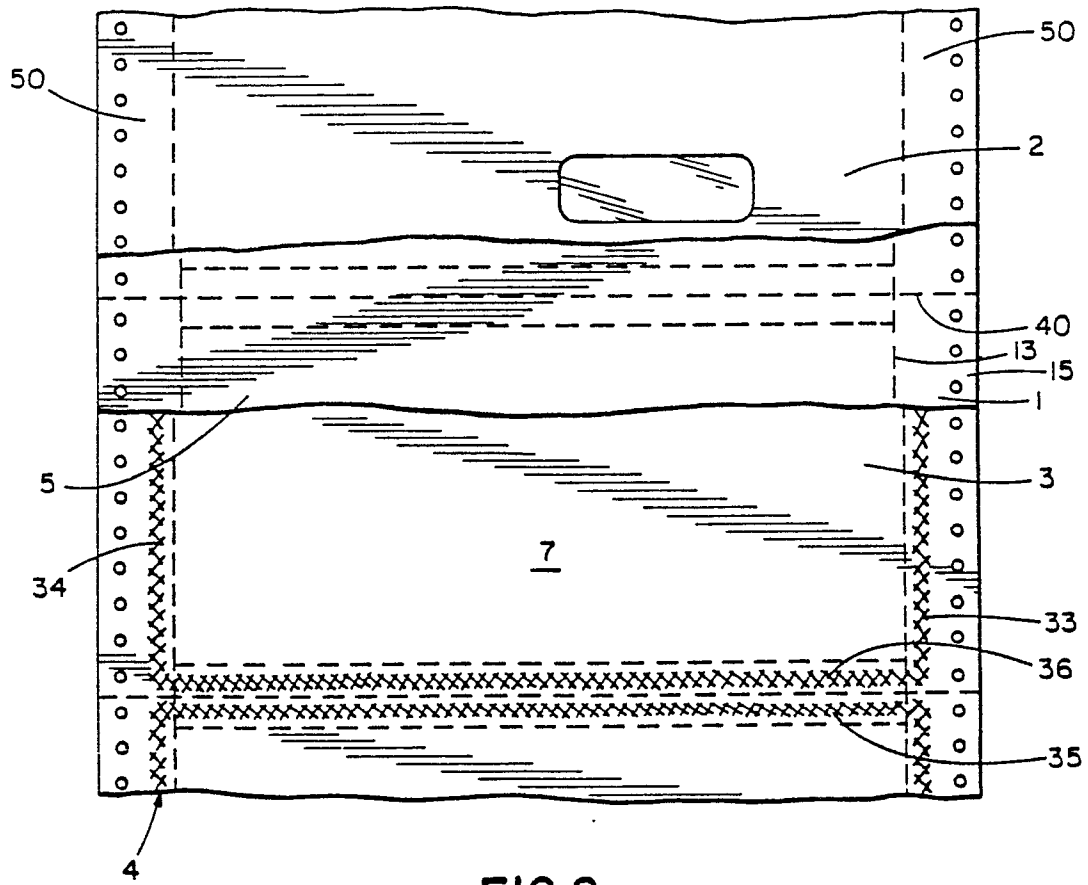


FIG.2