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Blohm

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- [54] **METHOD OF PRODUCING A PRINTED PRODUCT HAVING A PACKAGED COMPACT DISK**
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- [73] Assignee: Quad/Tech, Inc., Sussex, Wis.
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Related U.S. Application Data

- [63] Continuation of Ser. No. 581,443, Dec. 29, 1995, abandoned.
- [51] Int. Cl.⁶ B65B 11/48
- [52] U.S. Cl. 53/461; 53/254; 53/445; 53/450
- [58] Field of Search 53/412, 450, 550, 53/465, 466, 461, 472, 445, 254, 455
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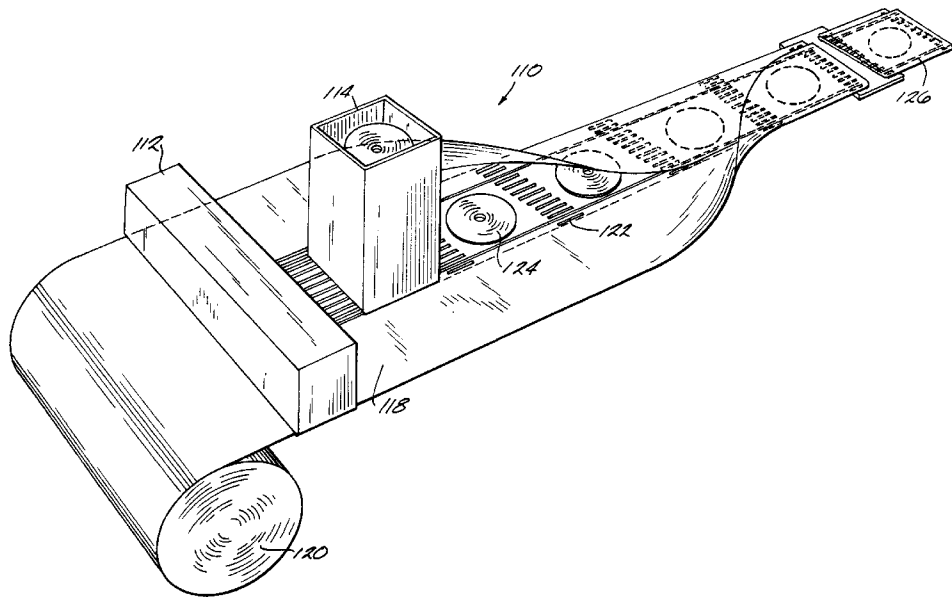
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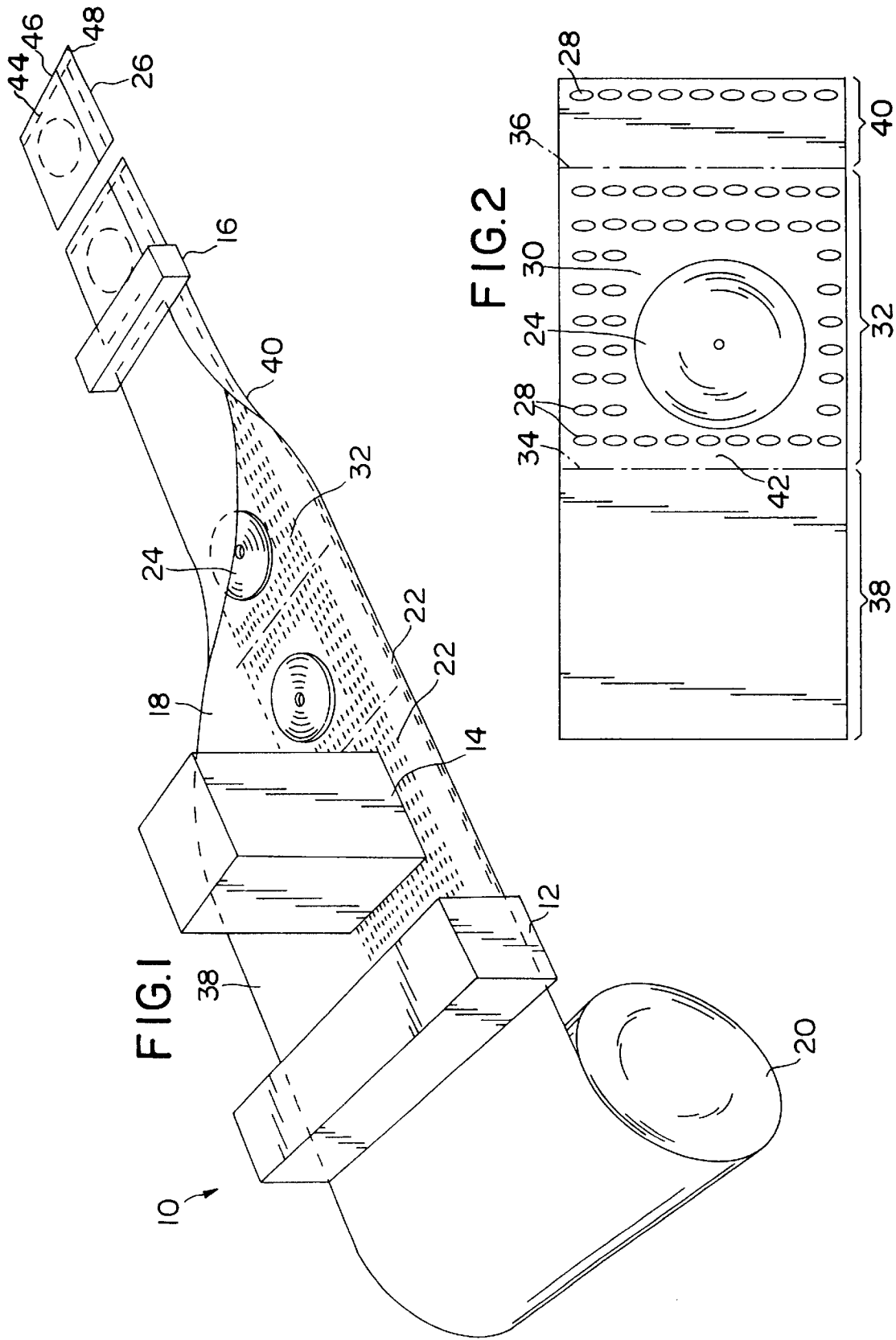
Primary Examiner—James F. Coan
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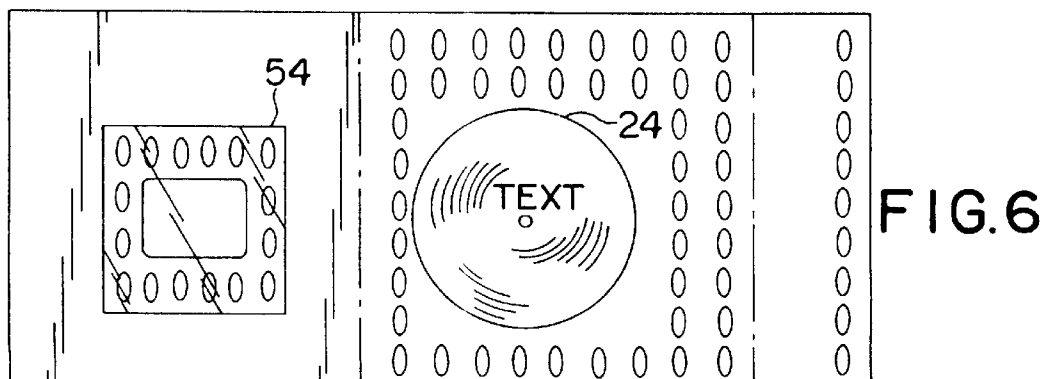
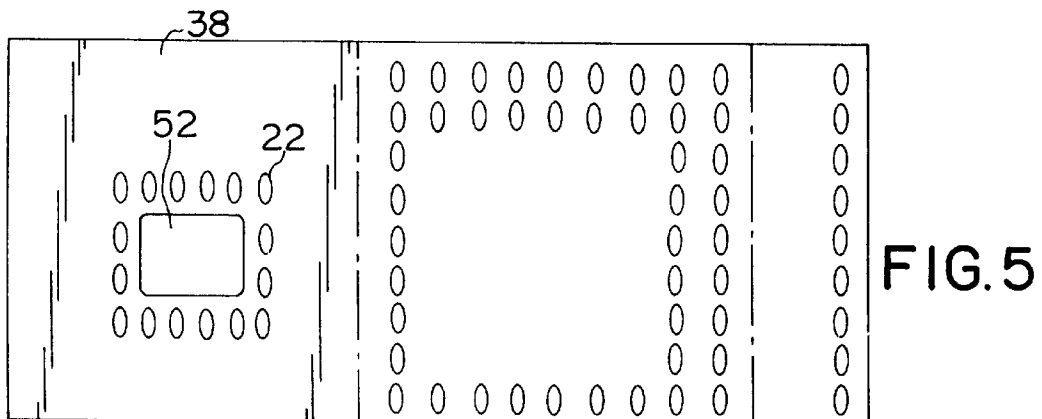
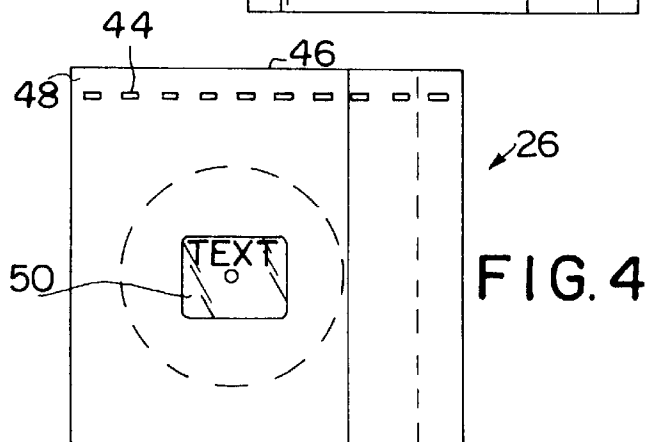
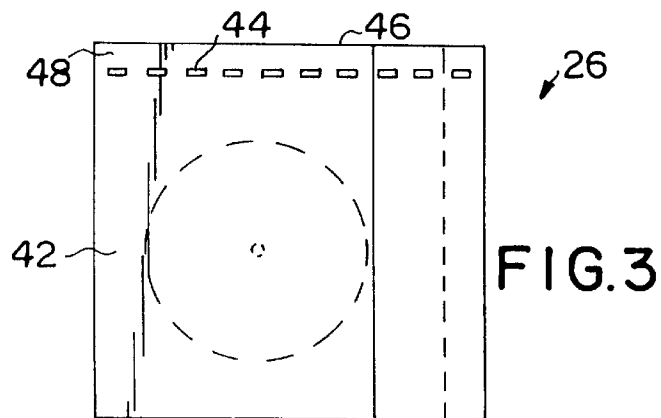
[57] ABSTRACT

A method of producing a printed product having a computer disk incorporated therein. The method includes the steps of depositing the disk onto the sheet of material, folding a first portion of the sheet over the disk and over at least a second portion of the sheet, securing the first portion to the second portion, folding a third portion of the sheet into overlapping relation with the first portion to produce a package, maintaining the third portion free from securement with the remainder of the sheet, and gathering the package with a signature to produce a book block while maintaining the third portion free from securement with the remainder of the sheet. The method further includes the step of perforating the sheet with a plurality of perforations to form a perforation line. The perforation line is formed substantially parallel to a fold line produced by the folding step, and preferably before the folding step. The gathering step includes the step of orienting the perforation line to be substantially perpendicular to the binding edge of the book block.

17 Claims, 5 Drawing Sheets







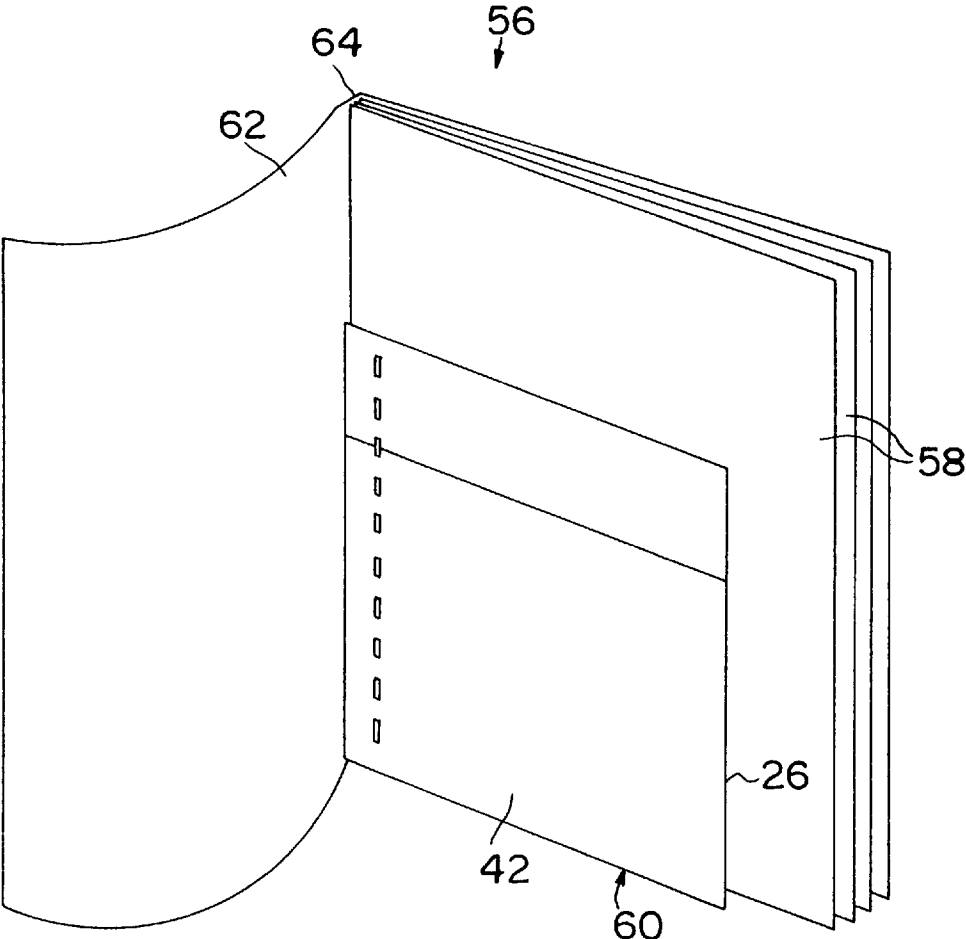


FIG. 7

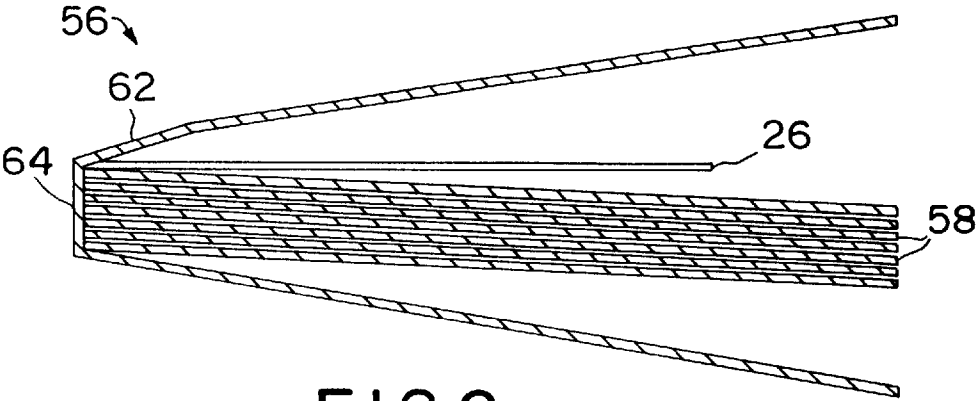
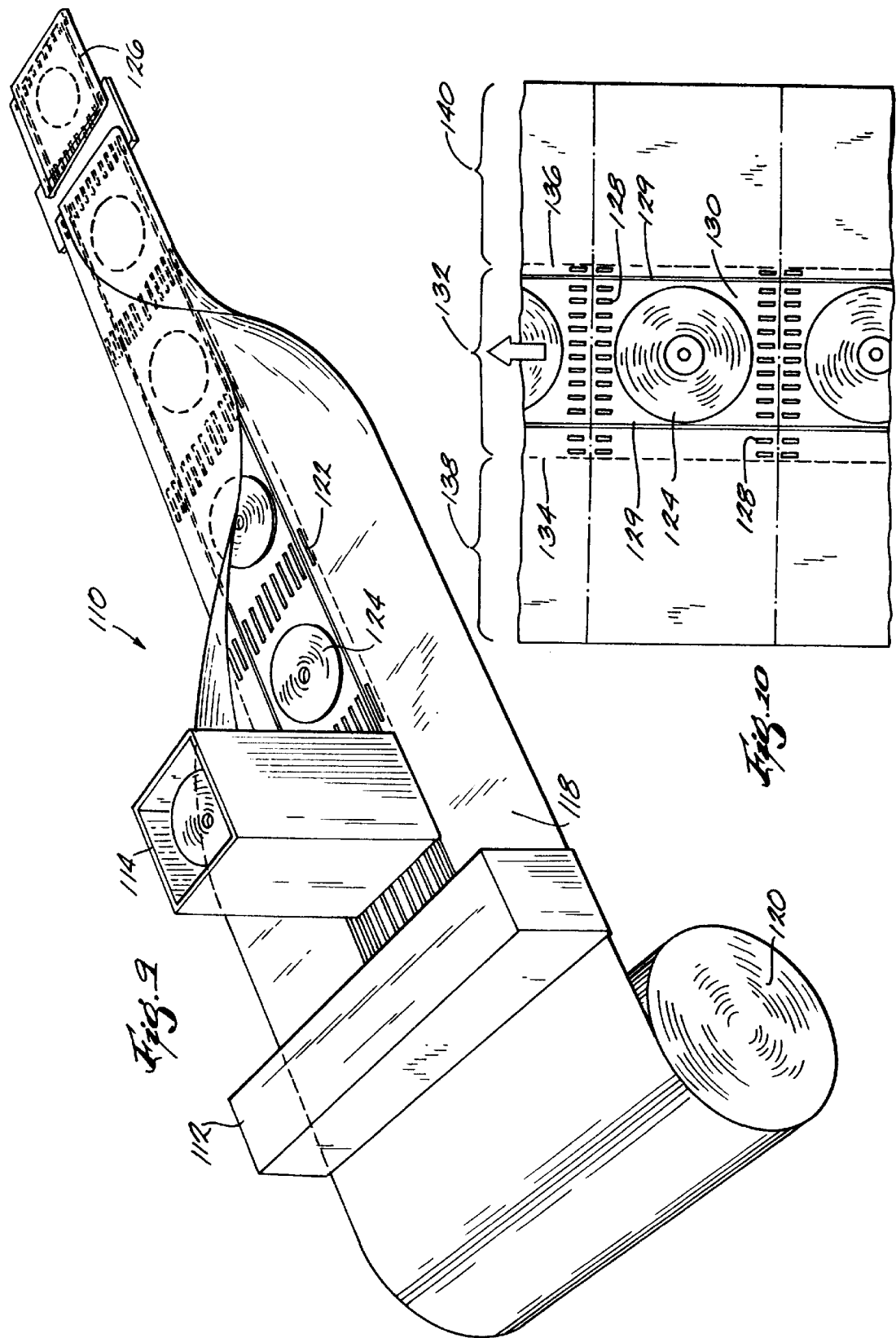


FIG. 8



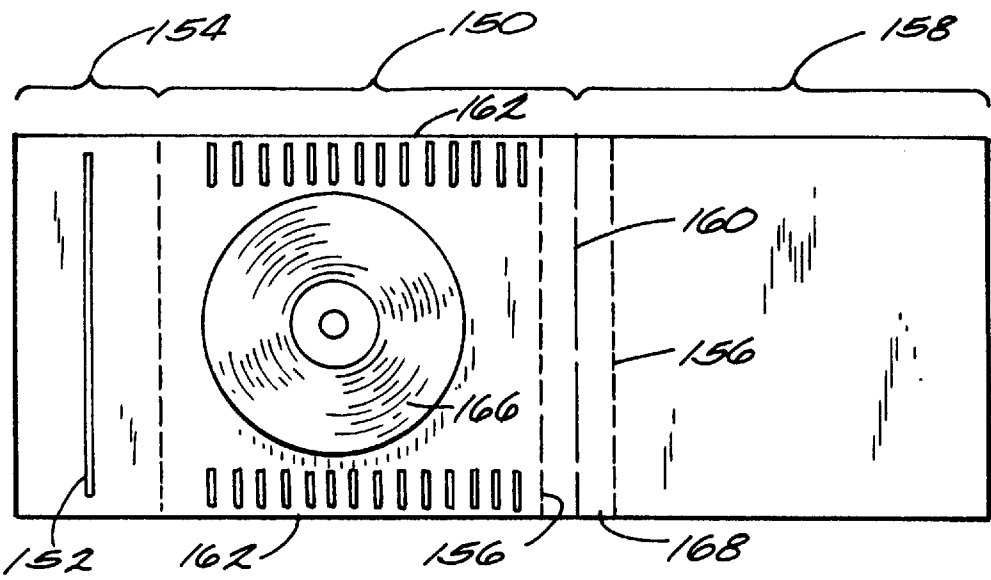


Fig. 11

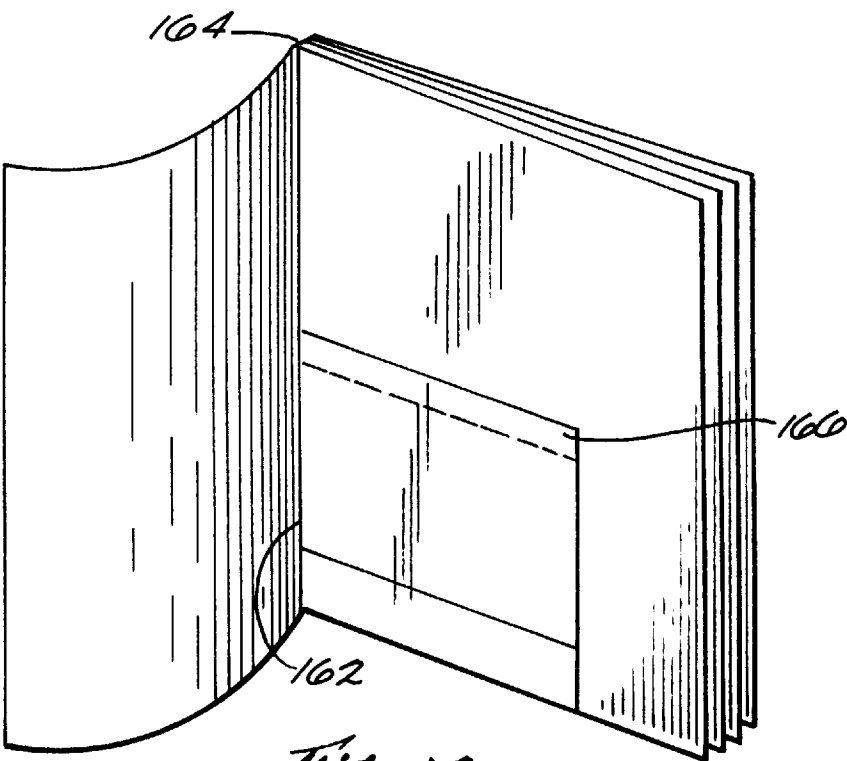


Fig. 12

METHOD OF PRODUCING A PRINTED PRODUCT HAVING A PACKAGED COMPACT DISK

REFERENCE TO RELATED APPLICATIONS:

This is a continuing application of U.S. patent application Ser. No. 08/581,443, filed Dec. 29, 1995, now abandoned.

FIELD OF THE INVENTION

The present invention relates generally to the field of packaging and, more specifically, to the field of packaging computer disks in such a manner that the computer disks can be readily incorporated into a process for producing printed products.

BACKGROUND OF THE INVENTION

The printing industry has long recognized the need to have the ability to incorporate objects (i.e., other than standard signatures) into printed products (e.g., magazines). For example, it is known to attach empty envelopes, cologne samples and dehydrated food into a magazine. Customer demands and increased competition in the printing industry has led to the continued search for new objects that can be incorporated into printed products. Since each product is different in its size, shape and ability to withstand abuse, new products can require novel packaging techniques in order to ensure the product can survive the printing process and subsequent delivery to the consumer.

Due to the relatively recent surge in computer popularity, companies have begun using computer disks to convey information to potential customers. For example, some companies provide potential customers with computer disks that give textual and pictorial information about the company's products. In addition, computer disks can accompany an owners' manual to convey to the consumer information about the use of the product. The ability to store large amounts of information makes CD-ROMs particularly useful in conveying information to consumers for these purposes. However, sending the computer disks by direct mail can be cost prohibitive, thereby limiting the use of computer disks for this purpose. In addition, enclosing a computer disk with a product can require special packaging in order to avoid damage to the disk. A cheaper way of packaging and sending computer disks could significantly increase their use in advertising and for other purposes.

SUMMARY OF THE INVENTION

One such way of packaging and sending computer disks to consumers is to attach the computer disk to a printed publication, such as a magazine. In this manner, the computer disk could be sent at bulk rate magazine costs, which are significantly cheaper than direct mail costs. In addition, the disks can be targeted to the specific consumers that receive the particular publication. For example, a CD-ROM that advertises expensive luxury automobiles could be attached to an automotive magazine, or possibly to a magazine directed to wealthier individuals. Further, utilizing the present invention, computer disks can be attached directly to an owners' manual, thereby safely securing the computer disk in a printed publication (i.e., the owners' manual) and avoiding the need for extra packaging for the disk.

The present invention provides a method of producing a printed product having a compact disk incorporated therein. The packaging provides protection to the disk in the event that the printed publication is mishandled, and also provides for easy removal of the package from the printed publication.

In one aspect, the method includes the steps of depositing the disk onto the sheet of material, folding a first portion of the sheet over the disk and over at least a second portion of the sheet, securing the first portion to the second portion, folding a third portion of the sheet into overlapping relation with the first portion to produce a package, maintaining the third portion free from securement with the remainder of the sheet, and gathering the package with a signature to produce a book block while maintaining the third portion free from securement with the remainder of the sheet. By virtue of the fact that the third portion remains free from securement with the remainder of the sheet, the package can be gathered on a standard signature gathering line. That is, the packaged disk can be gathered onto a binding vane by positioning the third portion on one side of the vane and the first portion on an opposing side of the vane.

In another aspect, the method includes the steps depositing the disk onto the sheet of material, perforating the sheet with a plurality of perforations to form a perforation line, and folding a portion of the sheet over at least a portion of the disk after the perforating step. By perforating the sheet before the folding step, the perforation becomes a much simpler operation, and the risk of damaging the disk during the perforating operation is avoided. To make the perforating step easier to perform, the perforation line can be formed substantially parallel to a fold line produced by the folding step. Preferably, the perforating step includes forming two perforation lines. For example, the two perforation lines can be formed substantially an equal distance from a fold line produced by the folding step. In such a design, it is beneficial to align one of the perforation lines with the other of the perforation lines.

In another aspect, the method comprising the steps of depositing the disk onto the sheet of material, perforating the sheet with a plurality of perforations to form a perforation line, folding a first portion of the sheet over the disk and over at least a second portion of the sheet, securing the first portion to the second portion to produce a package, and gathering the package with a signature to produce a book block. Preferably, the perforation line is formed substantially parallel to a fold line produced by the folding step, and preferably before the folding step. The book block formed by the gathering step can include a binding edge, and the gathering step can include the step of orienting the perforation line to be substantially perpendicular to the binding edge of the book block. A portion of the package between the perforation line and an edge of the package is a tear-away strip for facilitating removal of the disk from the package. Preferably, a portion of the tear-away strip is bound with the signature.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a schematic perspective view of an apparatus that could be used to practice the present invention.

FIG. 2 is a top plan view of a web of material illustrating the relative positioning of adhesive and a computer disk immediately after the computer disk has been deposited onto the web.

FIG. 3 is a top plan view of a completed packaged computer disk that was produced utilizing the apparatus illustrated in FIG. 1.

FIG. 4 is a top plan view of a web of material depicting an alternative embodiment of the present invention prior to depositing the computer disk.

FIG. 5 is a top plan view of the web shown in FIG. 4 after the computer disk and transparent material have been deposited.

FIG. 6 illustrates a magazine with a the packaged disk shown in FIG. 3 incorporated therein.

FIG. 7 illustrates the packaged disk of FIG. 3 incorporated into a gathered book.

FIG. 8 is a horizontal section view of the gathered book

FIG. 9 is a schematic perspective view of an alternative apparatus that could be used to practice the present invention.

FIG. 10 is a top plan view of a web of material illustrating the relative positioning of adhesive and a computer disk immediately after the computer disk has been deposited onto the web in accordance with the embodiment of FIG. 9.

FIG. 11 is top plan view of another embodiment of the

FIG. 12 illustrates a book block having the packaged compact disk of FIG. 11 incorporated therein.

DETAILED DESCRIPTION

FIG. 1 schematically illustrates a paper wrapper 10 having a pattern glue unit 12, a product feeder 14 and a cutter mechanism 16. Briefly, the paper wrapper 10 feeds a web 18 of paper from a roll 20 and toward the glue unit 12. Glue 22 is selectively deposited in a predetermined pattern on the web 18. Products 24 are successively fed from the product feeder 14 and onto the web 18 in spaced relation. Preferably, the products 24 are fed onto a non-glued portion of the web 18. The paper wrapper 10 then folds the web 18, one side at a time, until the web 18 is completely folded around the deposited product 24. Upon folding, the glued portions of the web 18 hold the web 18 in the folded condition. The folded web 18 is then cut into individual packages 26 by the cutter mechanism 16. Paper wrappers 10 of this type are commonly used to wrap paper (or other sheet material 54, such as plastic) around completed magazines. The paper wrapper 10 could, for example, be an MTR Enveloper available from Buhrs Zaandam of The Netherlands or Buhrs America of Eden Prairie, Minn.

The pattern glue unit 12 is positioned between the roll 20 and the product feeder 14. The glue unit 12 deposits glue 22 in a predetermined pattern onto the web 18. The type of glue used in the present invention can vary depending on the web 18 material and on the desired function. For example, if the web 18 is standard print paper, a hot melt glue could be used, such as product number 34-1123 sold by National Starch and Chemical Company of Chicago, Ill. Alternatively, a releasable glue, such as National Starch and Chemical Company product number 34-1123, could be used to make opening of the package 26 easier. A pattern glue unit 12 capable of performing the above-noted function is available as part of the above-described Buhrs Zaandam paper wrapper 10. If desired, the glue heads (not shown) of the glue unit 12 can be interchanged to customize the size and number of the glue beads.

The preferred glue pattern is illustrated in FIG. 2, and includes a plurality of small glue beads 28 arranged in such a manner that there is a centrally-located glueless area 30. The centrally-located glueless area 30 provides a location for subsequently depositing the product 24. In this manner, no glue will get on the product 24. However, it is noted that the glue beads 28 substantially completely surround the entire perimeter of the glueless area 30, the benefits of which is described below. The glue pattern is generally confined to a middle portion 32 of the web 18 defined by the locations of first and second fold lines 34,36 that illustrate the location

that the web 18 will be folded by the paper wrapper 10. The portion of the web 18 to the left of the first fold line will be called the left portion 38, and the portion of the web 18 to the right of the second fold line will be called the right portion 40 (i.e., as viewed in FIG. 2). In addition to the glue in the middle portion 32, glue is also applied to the outer edge of the right portion 40. This glue holds the right portion 40 folded onto the left portion 38 after the folding operation, as described below in more detail.

After glue is deposited onto the web 18, the product feeder 14 deposits a product 24 into the glueless area 30 of the glue pattern. In the illustrated embodiment, the product 24 is a CD-ROM. However, it should be appreciated that the present invention could package other types of products, such as products that have protected opposing surfaces or protected edges. That is, the present invention is particularly applicable to products that have surfaces that could be damaged by gluing, stitching or stapling the product to a signature or card insert in a conventional manner or to products that have edges that could be damaged due to impact. For example, products such as laser disks, phonorecords, computer disks (i.e., CD-ROMs, floppy disks, hard disks, etc.), or any other appropriate product that has protected opposing surfaces could be packaged by the present invention.

The product feeder 14 can be any appropriate apparatus that feeds products 24 (commonly referred to as a "feeder pocket" in the printing industry). For example, a suitable product feeder 14 is called a Pick and Placer, available from Minnesota Automation of Crosby, Minn.

After depositing the product 24, the left portion 38 of the web 18 is folded by moving the left portion 38 on top of the middle portion 32, thereby covering the entire product 24 and most of the middle portion 32. The fold location, illustrated by the first fold line 34, is intentionally spaced from the product 24, thereby defining a gap 42 between the fold location and the product 24. In addition, the glue pattern is positioned so that a portion of the glue is within the gap 42. In this manner, the left and middle portions of the web 18 will be secured together in the gap 42, thereby forming a secured gap 42 and preventing the product 24 from coming into contact with the fold location. Such a design is beneficial in that it protects the disk from damage in the event that the package 26 is dropped onto a hard surface. That is, if there was no secured gap between the product 24 and the fold location, and if the package 26 was dropped on that folded edge, the product 24 could be severely impacted and damaged by the hard surface. If, on the other hand, there is a secured gap 42 between the product 24 and the hard surface, the product 24 will be somewhat isolated from the hard surface, and the impact will be less severe.

In addition to providing the above-described secured gap 42 between the product 24 and the fold line, the glue pattern is also designed to provide similar secured gaps between the product 24 and the other sides of the package 26. That is, substantially the entire perimeter of the product 24 is surrounded by a secured gap produced by sealing the left portion 38 to the middle portion 32. This design maintains the product 24 spaced from the edges of the package 26, thereby reducing the likelihood of damage to the product 24 in the event that the package 26 is struck on its edge by a hard surface, as described above.

After the left portion 38 has been folded, the right portion 40 is folded over the middle and left portions. In the illustrated embodiment, the right portion 40 does not extend far enough to cover any part of the product 24. The right

portion **40** is secured to the left portion **38** by the glue that was previously applied to the right portion **40** by the pattern glue unit **12**.

After the folding operation, the web **18** is cut into separate packages **26**. This operation is performed by the cutter mechanism **16** that is available with the above-described paper wrapper **10** from Buhrs Zaandam. The cutter mechanism **16** has been modified so that it also forms a perforation line **44** simultaneously with the cutting operation. The illustrated perforation line **44** is formed adjacent and parallel to the leading edge **46** of each package **26**. The edge portion **48** of each package **26** between the perforation line **44** and the leading edge **46** is designed to be secured to a printed publication, such as a magazine. In this regard, the perforation line **44** facilitates removal of the packages **26** from the printed publication (i.e., by tearing at the perforation line **44**).

The width of the edge portion **48** between the perforation line **44** and the leading edge **46** can vary depending on the desired subsequent use of the package **26**. For example, if the package **26** will be incorporated into a saddle-stitched publication, a wider edge portion **48** (e.g., about three to four inches wider) will be needed to provide a place to form a fold that will act as the binding during the saddle stitching operation. If, on the other hand, the package **26** will be placed in a perfectly bound publication, then the edge portion **48** can be relatively narrow (e.g., as illustrated), since no fold is required. In the illustrated embodiment, the width of the edge portion **48** (i.e., the distance between the perforation line **44** and the leading edge **46**) is about 0.5 inches (12.7 mm).

In an alternative embodiment illustrated in FIG. **4**, the packaged disk includes a transparent window **50** that allows text or other indicia on the product **24** to be viewed from the exterior of the package **26**, thereby allowing identification of the product **24** without opening **52** of the package **26**. Referring to FIGS. **5-6**, the transparent window **50** is produced by forming (e.g., cutting) an opening **52** in the web in the area where the transparent window **50** is desired. In the illustrated embodiment, the opening **52** is formed in the center of the left portion **38** (FIG. **5**) utilizing an appropriate cutting device. Formation of the window **50** can occur before or after the pattern glue operation, but preferably occurs before to avoid getting glue on the cutting blades. The pattern glue operation deposits glue **22** around the opening **52**, in addition to the above-described glue locations. The glue **22** around the opening **52** facilitates securement of transparent material **54** over the opening **52**, as shown in FIG. **6**. The transparent material **54** can be deposited at the same time as the product **24**, if desired, but could also be deposited at any time after the glue operation and before the folding operation.

The web can also be provided with printing on the side that forms the exterior of the package. For example, printing can be provided on the exterior side of the left portion so that the text is visible to the consumer. The printing can be text and/or designs that provide aesthetic and/or identification functions. For example, the printing could be text that identifies the product. Such printing can be performed before, during or after the packaging operation. Also, the printing can be used with or without the above-described transparent window.

The above-described designs are specifically designed to be incorporated into a printed publication **56**, such as a magazine. The package **26** can be fed into a standard gatherer during the book-forming process. For example, the

packaged disk can be fed to a vane-type gatherer, a rotary gatherer, or a pusher-type gatherer with the perforated edge lined up with the binding. During the gathering process, signatures **58** are continually pushed at the foot, thereby forcing the foot of each signature **58**, and the foot **60** of the package **26**, to be aligned with each other. A cover **62** can then be applied to binding **64** of the gathered signatures, thereby resulting in the perfect-bound gathered book illustrated in FIGS. **7** and **8**. In the illustrated embodiment, the foot **60** of the package **26** would correspond with one of the two folded edges. After the gathered book is complete, the book is trimmed/cut along the three non-binding sides. The result is that the foot **60** of the package **26** (which corresponds with a folded edge) will likely be trimmed slightly. The provision of the secured gap **42** between the product and the folded edge facilitates such trimming. That is, without the secured gap **42**, the product itself could be trimmed and/or the folded edge could be trimmed, thereby allowing the product to fall out of the package **26**.

FIGS. **9** and **10** schematically illustrate an alternative embodiment of the present invention. FIG. **9** illustrates a paper wrapper **110** having a pattern glue unit **112**, and a product feeder **114**. As with the embodiment of FIG. **1**, the paper wrapper **110** feeds a web **118** of paper from a roll **120** and toward the glue unit **112**. Glue **122** is selectively deposited in a predetermined pattern on the web **118**. Products **124** are successively fed from the product feeder **114** and onto the web **118** in spaced relation. Preferably, the products **124** are fed onto a non-glued portion of the web **118**. The paper wrapper **110** then folds the web **118**, one panel at a time, until the web **118** is completely folded around the deposited product **124**. Upon folding, the glued portions of the web **118** hold the left portion in the folded condition. The right portion is folded but is not secured to the glued portions. The folded web **18** is then cut into individual packages **126** by a cutter mechanism (not shown in FIG. **9**). Specifics regarding the wrapper **110**, the glue unit and the product feeder are set forth above in describing the embodiment of FIG. **1**.

The corresponding glue pattern is illustrated in FIG. **10**, and includes a plurality of short glue beads **128** and long glue beads **129** arranged in such a manner that there is a centrally-located glueless area **130**. The centrally-located glueless area **130** provides a location for subsequently depositing the product **124**. In this manner, no glue will get on the product **124**. However, it is noted that the glue beads **128,129** substantially completely surround the entire perimeter of the glueless area **130**. The glue pattern is generally confined to a middle portion **132** of the web **118** defined by the locations of first and second fold lines **134,136** that illustrate the location that the web **118** will be folded by the paper wrapper **110**. The portion of the web **118** to the left of the first fold line **134** will be called the left portion **138**, and the portion of the web **118** to the right of the second fold line will be called the right portion **140** (i.e., as viewed in FIG. **10**).

After the completed package **126** has been created, it can be incorporated into a printed product, such as a magazine. More specifically, a stack of packages **126** can be positioned into a signature feeder on a binding line. The packages **126** can be oriented such that, when fed onto a binding vane, the right portion **140** will be placed on one side of the vane and the left portion **138** will be placed on the other side of the vane. In this manner, the package **126** will be supported on the vane so that standard gathering and binding operations can be performed. A signature feeder is disclosed in U.S. Pat. No. 5,100,116, which is incorporated herein by reference in its entirety.

FIG. 11 illustrates another alternative design. The illustrated design is similar to the one illustrated in FIG. 10, except that no long glue beads are provided in the middle portion 150, and a glue bead 152 is provided on the left portion 154. In addition, perforations 156 are formed in the middle portion 150 and right portion 158, an equal distance on either side of one of the fold lines 160. The perforations 156 are formed before the folding operation. In this manner, the perforations 156 will be substantially aligned with each other after the folding operation.

The package of FIG. 11 is produced by folding the right portion 158 over the middle portion 150, and the left portion 154 over the right portion 158. Both the left portion 154 and the right portion 158 are held down by glue.

The resulting package can be utilized in a perfect binding procedure with one of the glued edges 162 used as the binding edge 164 (see FIG. 12). With the perforations in the illustrated fashion, the disk 164 can be easily removed from the package. Furthermore, the tear-away strip 166 will stay secured in the printed publication even after the disk is removed.

The foregoing description of the present invention has been presented for purposes of illustration and description. Furthermore, the description is not intended to limit the invention to the form disclosed herein. Consequently, variations and modifications commensurate with the above teachings, and the skill or knowledge of the relevant art, are within the scope of the present invention. The embodiments described herein are further intended to explain best modes known for practicing the invention and to enable others skilled in the art to utilize the invention in such, or other, embodiments and with various modifications required by the particular applications or uses of the present invention. It is intended that the appended claims be construed to include alternative embodiments to the extent permitted by the prior art.

What is claimed is:

1. A method of producing a printed product having a computer disk incorporated therein, said method comprising the steps of:

depositing the disk onto a sheet of material;
folding a first portion of the sheet over the disk and over at least a second portion of the sheet;
securing the first portion to the second portion;
folding a third portion of the sheet into overlapping relation with the first portion to produce a package;
maintaining the third portion free from securement with the remainder of the sheet; and
gathering the package with a signature to produce a book block while maintaining the third portion free from securement with the remainder of the sheet.

2. A method as claimed in claim 1, wherein said gathering step includes the step of depositing the package onto a binding vane of a gathering and binding line.

3. A method as claimed in claim 2, wherein said depositing step includes positioning the third portion on one side of the vane and the first portion on an opposing side of the vane.

4. A method as claimed in claim 1, further comprising the step of perforating the sheet with a plurality of perforations to form a perforation line.

5. A method as claimed in claim 4, wherein the perforation line is formed substantially parallel to a fold line produced by said folding step.

6. A method as claimed in claim 4, wherein said perforating step is performed before said folding step.

7. A method as claimed in claim 4, wherein said perforating step includes forming two perforation lines.

8. A method as claimed in claim 7, wherein the two perforation lines are formed substantially an equal distance from a fold line produced by said folding step.

9. A method as claimed in claim 7, wherein said folding step includes the step of aligning one of the perforation lines with the other of the perforation lines.

10. A method of packaging a computer disk in a sheet of material comprising the steps of:

depositing the disk onto a sheet of material;

perforating the sheet with a plurality of perforations to form a perforation line; and

folding a portion of the sheet over at least a portion of the disk after said Perforating step,

wherein said perforating step includes forming two perforation lines and wherein the two perforation lines are formed substantially an equal distance from a fold line produced by said folding step.

11. A method of packaging a computer disk in a sheet of material comprising the steps of:

depositing the disk onto a sheet of material;

perforating the sheet with a plurality of perforations to form a perforation line; and

folding a portion of the sheet over at least a portion of the disk after said perforating step,

wherein said perforating step includes forming two perforation lines and wherein said folding step includes the step of aligning one of the perforation lines with the other of the perforation lines.

12. A method of producing a printed product having an object incorporated therein, said method comprising the steps of:

depositing the object onto a sheet of material;

folding a first portion of the sheet over the object and over at least a second portion of the sheet;

securing the first portion to the second portion;

folding a third portion of the sheet into overlapping relation with the first portion to produce a package;

maintaining the third portion free from securement with the remainder of the sheet; and

gathering the package with a signature to produce a book block while maintaining the third portion free from securement with the remainder of the sheet.

13. A method of producing a printed product having an object incorporated therein, said method comprising the steps of:

depositing the object onto a sheet of material;

perforating the sheet with a plurality of perforations to form a perforation line;

folding a first portion of the sheet over the object and over at least a second portion of the sheet;

securing the first portion to the second portion to produce a package; and

gathering the package with a signature to produce a book block.

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14. A method as claimed in claim 13, wherein the book block formed by said gathering step includes a binding edge, and wherein said gathering step includes the step of orienting the perforation line to be substantially perpendicular to the binding edge of the book block.

15. A method as claimed in claim 13, wherein a portion of the package between the perforation line and an edge of the package is a tear-away strip for facilitating removal of the object from the package, and wherein said method further

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comprises the step of binding at least a portion of the tear-away strip with the signature.

16. A method as claimed in claim 13, wherein the perforation line is formed substantially parallel to a fold line produced by said folding step.

17. A method as claimed in claim 13, wherein said perforating step is performed before said folding step.

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