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(54) LABEL SHEET ASSEMBLY WITH SURFACE FEATURES

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Description

FIELD OF INVENTION

[0001] The present disclosure generally relates to a label sheet assembly that is configured to be processed through a printer to print indicia thereon. More particularly, the disclosure relates to a label sheet assembly with surface features that is configured to improve printer processing.

BACKGROUND

[0002] Labels and label sheets are well known and various types have been proposed to meet the requirements of a wide variety of label applications. For example, labels are extensively used in retail businesses for communicating product information to customers. Labels generally include a facestock layer with an adhesive side and an exposed side. The exposed side includes a surface for receiving label indicia thereon and is opposite from the adhesive side. A liner sheet is operably attached to the adhesive side and is configured to allow a user to peel the label portion of the facestock from the liner sheet to be placed on a substrate. A plurality of cut lines may separate the facestock layer into a plurality of labels in various arrangements.

[0003] Many label sheets are configured to be fed through a printer to print ink on the surface of the labels. For example, U.S. Patent No. 7,709,071 to Wong et al. discloses a particular type of label sheet assembly that is configured to be fed through a printer and also allows a user to easily remove labels by hand. These label sheet assemblies allow a user broad discretion as to the orientation of the label and the indicia to be printed thereon. However, problems arise when a user processes label sheets through a printer, such as an inkjet printer, desktop printer, or laser printer. Many printers are configured to receive a label sheet or other sheet and process it through at least one, but usually more than one, rotary mechanisms during the printing process. These processes may cause portions of the label sheet assembly to become creased, manipulated or otherwise disengaged. This may cause ink to shift or labels to be moved relative the remaining facestock layer or liner sheet. Labels risk damage and indicia may not be accurately printed along the labels. US2014/106132A, US6001209A and US2010/293829A1 disclose label sheets including facestock and backing liner.

[0004] Therefore, there is a need for a label sheet assembly having a facestock and liner material that can be configured to reduce inconsistent processing through a printer. There is also a need for an improved method of feeding a label sheet through a printer to accurately apply ink or indicia thereon without unduly manipulating the orientation of the labels or label sheet assembly.

SUMMARY

[0005] The present system leverages the advantages of a label sheet assembly with surface features as defined in the appended claims. Provided are embodiments of a label sheet assembly according to claim 1, that include a facestock layer having first and second sides, the facestock layer including at least one cut line that defines at least one label and a matrix portion on the first side wherein the facestock layer is configured to receive indicia thereon. An adhesive layer along the second side and a liner sheet layer having top and bottom surfaces, the top surface attached to the adhesive layer along the facestock layer. At least one surface feature is provided along the bottom surface of the liner sheet layer, wherein the at least one surface feature provides a zone of increased tactile sensitivity along the label sheet assembly. Further, the surface feature may also provide a zone of increased friction thereon. A first surface feature may be applied along a header portion of the first side of the facestock layer. A second surface feature may be applied along a footer portion opposite of the first side of the facestock layer along an opposite edge of the first surface feature. The at least one surface feature is be a printed texture or an embossed texture. The at least one surface feature may include alignment features wherein the alignment features include at least one of a diagonal line and a straight line.

[0006] The at least one surface feature includes a first vertical surface feature provided along the bottom surface of the liner sheet layer and a second and third vertical surface feature. The first and second vertical surface features may include a plurality of spaced areas with rounded outer edges. The third vertical surface feature may include a plurality of spaced areas having a generally arrow shape with rounded edges and may be generally aligned with the plurality of spaced areas of the first and second vertical surface features.

[0007] In another example, not according to the claimed invention, provided is a label sheet assembly that includes a facestock layer having at least one cut line that defines at least one label and a matrix portion wherein the facestock layer is configured to receive indicia thereon. The label sheet assembly includes an adhesive layer and a liner sheet layer. A first surface feature may be applied along a header portion of the matrix portion wherein the first surface feature may provide a zone of increased tactile sensitivity along the label sheet assembly. Further, the surface feature may provide a zone of increased friction thereon. A second surface feature may be positioned along a footer portion opposite from the first surface feature. The first surface feature may be a printed texture or an embossed texture. The liner sheet layer may include a bottom surface opposite the facestock layer wherein a first surface feature may be positioned along a header portion of the bottom surface and a second surface feature may be positioned along a footer portion of the bottom surface. The first surface fea-

ture along the bottom surface may be aligned with the first surface feature positioned along the matrix portion. The first surface feature and the second surface feature may include a solid color with contrasting indicia. The solid color may include at least one of Blue (PMS 286), Red (PMS 185), Green (PMS 368), and Gray (PMS Warm Gray 5). In one embodiment, the label sheet assembly may include a bottom side opposite from the facestock layer, the bottom side may include at least one of a first surface feature, a second surface feature, a solid color header, and a solid color footer. The bottom side may include a header portion and a footer portion with a solid color that is different from the header portion and the footer portion of the facestock layer. The contracting indicia may include alignment features wherein the alignment features include at least one of a diagonal line and a straight line.

[0008] Specific reference is made to the appended claims, drawings, and description below, all of which disclose elements of the invention. In the same manner, a person of ordinary skill will have the requisite understanding of common processes, components, and methods, and this description is intended to encompass and disclose such common aspects even if they are not expressly identified herein.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] Operation of the disclosure may be better understood by reference to the following detailed description taken in connection with the following illustrations, wherein:

Figure 1 is a cross sectional view of an embodiment of a label sheet assembly of the present disclosure;
Figure 2 is a plan view of an example of a label sheet assembly of the present disclosure with a first and a second surface feature;
Figure 3 is a plan view of an example of the label sheet assembly in accordance with one aspect of the present disclosure;
Figure 4 is a plan view of an example of the label sheet assembly in accordance with an aspect of the present disclosure;
Figure 5 is a plan view of an example of the label sheet assembly in accordance with an aspect of the present disclosure;
Figure 6 is a plan view of an example of the label sheet assembly in accordance with an aspect of the present disclosure;
Figure 7 is a plan view of an example of the label sheet assembly in accordance with an aspect of the present disclosure;
Figure 8 is a plan view of an example of the label sheet assembly in accordance with an aspect of the present disclosure;
Figure 9 is a plan view of an example of a back of the label sheet assembly in accordance with an aspect of the present disclosure;
Figure 10 is a plan view and schematic view of examples of the first and second surface features of the label sheet assembly in accordance with the present disclosure;
Figure 11 is a plan view of an example of a back of the label sheet assembly with surface features in accordance with an aspect of the present disclosure;
Figure 12 is a plan view of an embodiment of a back of the label sheet assembly in accordance with the present disclosure;
Figure 13 is a plan view of an example of a back of the label sheet assembly in accordance with the present disclosure;
Figure 14 is a plan view of an embodiment of a back of the label sheet assembly in accordance with the present disclosure;
Figure 15 is a plan view of an embodiment of a back of the label sheet assembly in accordance with the present disclosure;
Figures 16, 17, and 18 are plan views of embodiments of a back of the label sheet assembly in accordance with the present disclosure;
Figure 19 is a plan view of an example of a back of the label sheet assembly in accordance with the present disclosure;
Figure 20 is a plan view of an example of a back of the label sheet assembly in accordance with the present disclosure; and
Figures 21-53 are plan views of various examples of the label sheet assembly in accordance with the present disclosure.

DETAILED DESCRIPTION

[0010] Reference will now be made in detail to embodiments of the present disclosure, examples of which are illustrated in the accompanying drawings. It is to be understood that other embodiments may be utilized and structural and functional changes may be made without departing from the respective scope of the disclosure, as defined in the appended claims.

[0011] As used herein, the words "example" and "exemplary" mean an instance, or illustration. The words "example" or "exemplary" do not indicate a key or preferred aspect or embodiment according to the invention. The word "or" is intended to be inclusive rather an exclusive, unless context suggests otherwise. As an example, the phrase "A employs B or C," includes any inclusive permutation (e.g., A employs B; A employs C; or A employs both B and C). As another matter, the articles "a" and "an" are generally intended to mean "one or more" unless context suggest otherwise.

[0012] A label sheet assembly 10 is disclosed and may be of any appropriate configuration and is not limited to that shown and described herein. It should similarly be understood that the sheet assembly 10 may be adapted to any appropriate size, including, without limitation, 8.5

inches by 11 inches, A4 size, legal size or any other size, including, without limitation smaller sizes. The sheet assembly 10 may be made of any appropriate materials and colors or indicia and this disclosure is not limited in this regard.

[0013] Figure 1 is a cross sectional side view of the sheet assembly 10 that includes a facestock layer 20 that is coated with a pressure sensitive adhesive layer 30. Sheet assembly 10 also includes a liner sheet 40 attached to the adhesive layer 30. The liner sheet 40 may include a release coating for supporting the adhesive layer 30. The liner sheet 40 may be made of any appropriate material, including, without limitation a calendared paper or polymer film. The facestock layer 20 may be of any appropriate material, including without limitation a paper, plastic or polymer material such as a polyester material or other transparent, translucent or semi-translucent material. The facestock layer 20 may also be a laminate or a label or combination of both. The facestock layer has a top surface 22 that is configured to receive indicia thereon.

[0014] As illustrated by Figure 2, the top surface 22 of facestock layer 20 of the sheet assembly 10 is shown in plan view. The sheet assembly 10 includes at least one cut line 50 that may extend through the facestock layer 20 to separate that sheet assembly into labels 60 and a matrix portion 70. In this embodiment, the facestock layer 20 includes six (4) labels 60 having a generally rectangular shape with rounded corners. However, this application is not limited as to the configuration, amount, or size of the labels 60. The present labels 60 are disclosed for the sake of brevity, but the teachings herein apply to any number of labels and any size and shape of labels.

[0015] The label sheet assembly 10 includes a first edge 12 and opposite second edge 14 along with a third edge 16 and opposite fourth edge 18. These edges 12, 14, 16, 18 may intersect to form a generally rectangular sheet assembly wherein the label sheet assembly 10 may be configured to be fed into a conventional printer (such as by way of a non-limiting example an ink jet and/or laser printer) from any edge.

[0016] The label sheet assembly 10 may include various surface features in different arrangements and made from various materials. In one embodiment, as illustrated by Figure 2, a first surface feature 80 may be positioned along the matrix portion 70. The first surface feature 80 may extend along the first edge 12 from the third edge 16 to the fourth edge 18 as illustrated. This location may be referred to as the header portion 120. Further, there may be a second surface feature 90 positioned along the matrix portion 70. The second surface feature 90 may be positioned along an opposite side of the label sheet assembly 10 as the first surface feature 80 and may extend along the second edge 14 between the third edge 16 and the fourth edge 18. This location may be referred to as the footer portion 130. In this embodiment, the first and second edges 12, 14 may be shorter in length that the third and fourth edges 16, 18. Further, the first surface feature 80 may have a different configuration than the second surface feature 90 and the various embodiments of the surface features 80, 90 may include a combination of surface elements. The combination may be optimized for traction, friction, tactile sensitivity and flexibility to improve printer processing, ease of handling the sheets by the user, and visual aesthetics. Further, the surface features 80, 90 may be a zone of increased flexibility imparted by coating or embossing to improve printer processing. Printing processing issues may be improved to reduce the skewing of printed indicia during printing through a printer device and reduce the occurrence of having multiple sheets fed through the printer at once, leading to jam.

[0017] As such, known label sheet assemblies may have experienced difficulty being fed through printers thereby causing indicia to be applied "off-register" or out of alignment with the intended position along the indicia receiving portions of the labels 60. This off-registration may be due, in part, to the level of friction between a leading edge of the label sheet and the receiving area of the printer device.

[0018] In one embodiment, the surface features 80 are added to improve the way in which label sheet assemblies 10 are fed through printers to receive indicia on the labels. The first and second surface features 80, 90 may be provided to improve the accuracy of indicia application while undergoing stresses caused by processing the label sheet assembly 10 though the printer. The first and second surface features 80, 90 may have various orientations that improve frictional abutment with the printer. Additionally, the surface features 80, 90 are flexible enough to allow the printer device to individually index the label sheet assemblies 10 as they are positioned in a stacked orientation relative to one another and being processed by the printer.

[0019] This application includes surface features 80, 90 having various embodiments. As illustrated by Figures 2-4, the first and second surface features 80, 90 may be a printed texture applied to the surface 22 of the matrix 70 along the header or footer portions 120, 130 of the label sheet assembly 10. The printed texture surface feature may be utilized with label sheet assemblies 10 that are made from materials that include an already slippery surface such as a glossy material. The printed texture surface feature may be a material, such as an ink, matt ink, varnish, adhesive, or coating, which is applied along the surface 22 with various orientations. In one embodiment, the material may be made from ink that is applied in a desired pattern by a metering system to place a particular volume of ink material at a desired raised pattern from the surface 22 of the label sheet assembly 10. The ink material may be cured, such as with an ultraviolet (UV) light, to produce a generally raised surface feature in a desired pattern. The printed texture surface feature may also be made from a variety of colors that may be applied to the label sheet assembly to form the surface features as described. Further, the printed texture may

be imparted by utilizing a water-based coating or a hot melt material. The coating may be a texture coating such as a sandy, soft touch, or reticulation that yields texture from additives or a specific coating formulation.

[0020] In one example, a pattern of the printed texture type of the surface feature may include a randomization pattern as illustrated by the first surface feature 80 of Figure 2. The randomization pattern may include a plurality of dots or shapes positioned along the header 120 or footer 130 in a random position. In this embodiment, the positon of the printed texture of a subsequently stacked label sheet assembly would be different such that the randomization pattern may assist to prevent nesting of label sheet assemblies 10 when processed from a stacked orientation.

[0021] In another embodiment, the pattern of the printed texture includes an angled orientation as illustrated by the second surface feature 90 of Figure 2. The angled pattern may include a plurality of shapes angled relative to the leading edge of the label sheet. In this embodiment, the shapes extend from the leading edge 14 and are tapered towards a center line 92 of the label sheet assembly. The angled pattern may assist to improved traction with the printer.

[0022] In another embodiment, the pattern of the printed texture includes an intensity variation pattern as illustrated by the first and second surface features 80, 90 of Figure 3. The intensity variation pattern may vary the raised size of the printed texture relative to its distance from the leading edge 12, 14. Further, this pattern may incorporate various features from other patterns such as the randomization pattern or the angled pattern as described above. The intensity variation pattern may improve on the initial traction with the printer to improve processing accuracy.

[0023] In another embodiment, the pattern of the printed texture includes a grip strip pattern as illustrated by the first surface feature 80 of Figure 4. The grip strip pattern may be a plurality of thinly shaped elongated lines positioned along the header portion 120 along the leading edge 12. In another embodiment, the pattern of the printed texture includes a solid bar pattern as illustrated by the second surface feature 90 of Figure 4. Notably, any type of pattern may be utilized along the header 120 or footer 130 portions of the label sheet assembly and this disclosure in not limited to the pattern or quantity of surface features utilized in a label sheet assembly 10. Notably, the printed texture embodiment may also be accompanied with various indicia and color schemes along the header and footer portions.

[0024] In other embodiments, as illustrated by Figures 5-10, the first and second surface features 80, 90 may be an embossed texture applied to the surface 22 of the matrix 70 along the header or footer portions 120, 130 of the label sheet assembly 10. The embossed texture may include a plurality of micro-cuts or impressions along the surface to cause portions to be raised therefrom. The embossed texture surface feature may also be utilized with label sheet assemblies 10 that are made from contrasting colors from the remaining portion of the label sheet assembly 10. The embossed texture surface feature may be provided along the feed edges to provide tactile perspective to a user and also to improve feeding characteristics when processing the label sheet through a printer. As illustrated by Figure 10, various configurations of embossed texture may be provided. In particular, the first and second surface features may have a zipper embossed pattern 150, a moon embossed pattern 152, a sand embossed pattern, or an orange rind embossed pattern 156. These embossed patterns are for example and various other embossed patterns may be utilized along the header or footer portions 120, 130 to be utilized as the first or second surface features 80, 90. In one embodiment, the embossed features may be accompanied by a contrasting color provided along the header or footer portions 120, 130. In one embodiment, the contrasting color is a solid blue while the remaining color of the label sheet assembly 10 is white.

[0025] Figure 5 illustrates the header portion 120 including various indicia printed thereon in addition to the embossed features and contrasting color. The indicia may indicate the brand mark 102 or associate website of the label sheet assembly 10 along with alignment features 100. The alignment features 100 may visually assist a user to align the label sheet assembly 10 with a printer to be processed therein. The brand mark 102 may indicate to a user a website representative of a type of template associated with the label sheet assembly 10. The website may allow a user to easily incorporate the appropriate template associated with a word processor program to process and align text or other indicia with the indicia receiving portions of the labels 60. In this embodiment, the alignment features 100 include markings with diagonal lines relative to the leading edges 12, 14. These diagonal line type alignment features 100 may also indicate that the particular label sheet assembly 10 includes a plurality of discontinuous cut lines (not shown) as disclosed in commonly owned U.S. Patent Application Serial Number 15/331,988 filed October 24, 2016 which is incorporated herein in its entirety. The diagonal line alignment features 100 may include a similar angle relative to the leading edges 12, 14 as the discontinuous cut lines. A straight alignment feature 104 may also be present. The straight line may be continuous or broken lines that may be generally perpendicular to leading edges 12, 14. These straight line alignment features 104 may be aligned with a column of labels or a weakened separation line (not shown) as disclosed by the label sheet assemblies of U.S. Patent No. 7,709,071 to Wong et al. These weakened separation lines allow a user to easily remove labels by hand.

[0026] The header portion 120 and footer portion 130 may include solid print or text thereon having a different color than the remainder of the header portion 120 and footer portion 130. In other embodiments, Figures 6 and 7 illustrate label sheet assemblies 10 without the align-

ment features 100 of Figure 5.

[0027] Figure 8 illustrates a label sheet assembly 10 having surface features 80, 90 with a combination of surface features. These surface elements may be printed or embossed and may be a grip strip pattern of elevated elements. In this embodiment, the pattern may include of a plurality of dots and a plurality of carets in various aligned configurations. In particular, each pattern may be spaced in a column adjacent one another along the header portion 120 and footer portion 130.

[0028] Figure 9 illustrates a plan view of a back or bottom surface 24 of the liner sheet 40. The bottom surface 24 is opposite from the indicia receiving top surface 22 of the label sheet assembly 10. The bottom surface 24 may also include at least one of the first surface feature 80 and the second surface feature 90. In one embodiment, the surface features 80, 90 of the bottom surface 24 may generally align with the surface features 80, 90 of the top side 22. Additionally, various indicia may be provided along the bottom surface 24 of the liner sheet 40, the indicia may indicate instructions or brand marks or any other indicia and this application is not limited.

[0029] The surface features 80, 90 may reduce the bending resistance of the leading edges 12 and trailing edges 14 of the label sheet assembly 10 and may be formed such that they have minimal impact on the smoothness of the liner sheet 40 to minimize likelihood of adjacent sheets to nest or stick together. Otherwise, sheet nesting of adjacent sheets may result in the error of more than one sheet being fed into a printer at once.

[0030] The addition of surface features 80, 90 may also be incorporated into various label sheet assemblies 10 such as described by commonly owned US Patent 7,709,071, which is incorporated herein by reference.

[0031] Also described is a method of creating the label sheet assembly 10 with at least one surface feature 80, 90. The facestock layer 20 may be provided with the adhesive layer 30 along a first side and an indicia substrate 22 along an opposite second side. The liner sheet 40 may be attached to the adhesive layer 30 of the facestock layer 40. At least one cut line 50 is applied the facestock layer 20 to define at least one label 60 and a matrix portion 70 of the facestock layer. In one embodiment, the first surface feature 80 may be provided along the header portion 120 and the second surface feature 90 may be provided along the footer 130 portions of the layout. The first and second surface features 80, 90 may be applied with at least one of an ink material, adhesive material, and coating material in a desired pattern. The material may then be cured with a UV light. Alternatively, the first and second surface features 80, 90 may be embossed along the respective header 120 and footer portions 130 in a desired pattern. Further, the first and second surface features 80, 90 may be a printed texture type such as relief varnish or matt ink material. Alternatively, it may be an embossed texture type such as a plurality of patterned micro-cuts or impressions. Additional layout adjustments may be made to align the surface features 80, 90 with the plurality of labels 60. The label sheet assembly may be fed into a printer to print indicia thereon.

[0032] Referring to Figure 11, the bottom surface 24 of the liner sheet 40 further includes at least one vertical surface feature aligned along the processing direction of the label sheet as it is processed through a printer. The at least one vertical surface feature 1180 may be positioned adjacent to the third edge 16 of the label sheet assembly 10 and may extend generally parallel to the third edge 16 between the first edge 12 and the second edge 14. In some embodiments, the surface feature 1180 along the bottom surface 24 may extend all the way from the first edge 12 to the second edge 14 of the label sheet assembly 10. The bottom surface 24 may also include additional vertical surface features 1190. The surface feature 1190 may be positioned adjacent to the fourth edge 18 of the label sheet assembly 10 and may extend generally parallel to the fourth edge 18 between the first edge 12 and the second edge 14. In some embodiments, the surface feature 1190 may also extend all the way from the first edge 12 to the second edge 14 of the label sheet assembly 10. In this embodiment, the surface features 1180, 1190 may be about 2 inches to about 3 inches wide along the first edge 12. The surface feature 1180 may have a different configuration than surface feature 1190. Additionally, these vertically arranged surface features 1180, 1190 may be placed on the bottom surface 24 that also includes surface features 80, 90 positioned only the header and footer of the bottom surface 24 and the arrangement is not limited.

[0033] Referring to Figure 12, the bottom surface 24 of the liner sheet 40 includes a plurality of vertical surface features 1280, 1282, 1290, 1292. Surface feature 1280 may be positioned adjacent to the third edge 16 of the label sheet assembly 10 and extends generally parallel to the third edge 16 between the first edge 12 and the second edge 14. In some embodiments, the surface feature 1280 along the bottom surface 24 may extend all the way from the first edge 12 to the second edge 14 of the label sheet assembly 10. In other embodiments, these surface features may extend along the bottom surface between surface features 80, 90 aligned along the header and footer of the bottom surface 24. Surface feature 1282 may be positioned adjacent to the surface feature 1280 and be positioned generally parallel to the third edge 16 of the label sheet assembly 10 and may extend generally parallel to the surface feature 1280 between the first edge 12 and the second edge 14. Surface feature 1290 may be positioned adjacent to the fourth edge 18 of the label sheet assembly 10 and may extend generally parallel to the fourth edge 18 between the first edge 12 and the second edge 14. In some embodiments, the surface feature 1290 may also extend all the way from the first edge 12 to the second edge 14 of the label sheet assembly 10. Surface feature 1292 may be positioned adjacent to the surface feature 1290 and generally parallel to the fourth edge 18 of the label sheet assembly 10 and may extend generally parallel to the surface feature

1290 between the first edge 12 and the second edge 14. In this embodiment, the surface features 1280, 1282, 1290, 1292 may be about 2 inches to about 3 inches wide along the first edge 12. The plurality of surface features 1280, 1282, 1290, 1292 may also have a different configuration than one another.

[0034] Figure 13 illustrates an embodiment of the label sheet assembly with vertical surface features along the bottom surface 24 of the liner sheet in accordance with the present disclosure. Surface feature 1380 may be positioned adjacent to the third edge 16 of the label sheet assembly 10 and may extend generally parallel to the third edge 16 between the first edge 12 and the second edge 14. There may be a slight space between third edge 16 and surface feature 1380. The surface feature 1380 along the bottom surface 24 may extend all the way from the first edge 12 to the second edge 14 of the label sheet assembly 10. The surface feature 1390 may be positioned adjacent to the fourth edge 18 of the label sheet assembly 10 and may extend generally parallel to the fourth edge 18 between the first edge 12 and the second edge 14. There may be a slight space between fourth edge 18 and surface feature 1390. In some embodiments, the surface feature 1390 may also extend all the way from the first edge 12 to the second edge 14 of the label sheet assembly 10. Alternatively, surface features 80, 90 may also exist along the header and footer portions in which the surface features 1380, 1390 extend therebetween.

[0035] Figure 14 illustrates various types of surface features along the bottom surface of the label sheet assembly including both horizontal surface features 1410, 1490 and vertical surface features 1420, 1430 aligned generally perpendicular relative to one another. In one embodiment, the horizontal surface features 1410, 1490 may be located on the back or bottom surface 24 of the liner sheet 40. Surface feature 1410 may be positioned adjacent to the first edge 12 of the label sheet assembly 10 and extends generally parallel to the first edge 12 between the third edge 16 and the fourth edge 18. The surface feature 1410 may include a plurality of dots, a plurality of lines or a combination of a variety of configurations as illustrated in the Figures. The surface features 1410 and 1490 may be similar to surface features 80, 90 and this disclosure is not limited in this regard. Surface feature 1490 may be positioned adjacent to the second edge 14 of the label sheet assembly 10 and may extend generally parallel to the second edge 14 between the third edge 16 and the fourth edge 18. The surface feature 1490 may also include a plurality of dots, a plurality of lines, or a combination of both. The lines may be of various lengths and may be arranged relative to one another.

[0036] The embossed texture surface feature may be provided along the feed edges to provide tactile perspective to a user and also to improve feeding characteristics when processing the label sheet through a printer. In this embodiment, the horizontal surface features 1410, 1490 may include a tactile varnish that may be protrude about 5 μm to about 20 μm high along the first edge 12. The surface feature 1410 may have a different configuration than surface feature 1490. It should be understood, however, that this is merely one embodiment and that the present system may apply to any of the label sheet assembly 10. For the sake of brevity of the present disclosure, not every example is included, but the present application contemplates any appropriate such label sheet assemblies 10.

[0037] The vertical surface features 1420, 1430 may visually assist a user to align the label sheet assembly 10 with a printer to be processed therein. In this embodiment, the vertical surface features 1420, 1430 include markings with an arrow or chevron shape relative to the leading edges 12, 14. The vertical surface feature 1420 may be positioned adjacent to the third edge 16 of the label sheet assembly 10 and may extend generally parallel to the third edge 16 between the first edge 12 and the second edge 14. In some embodiments, surface feature 1420 may extend all the way from the first edge 12 to the second edge 14 of the label sheet assembly 10. The horizontal surface features 1410, 1490 and the vertical surface features 1420, 1430 may include a plurality of dots, a plurality of cut lines, or a combination of various shapes. The plurality of horizontal surface features 1410, 1490 and vertical surface features 1420, 1430, as illustrated by Figures 14, may be arranged along an area of the back of the liner sheet where printer feeding devices are positioned. The vertical surface features 1420, 1430 may be generally parallel to the long edge of the sheet and go from the top to the bottom edge of the sheet. As the surface may extend the length of the sheet, sheet feeding in printers may be consistent and misalignment of print may be avoided. The surface features may be provided to improve the accuracy of indicia application while undergoing stresses caused by processing the label sheet assembly 10 though the printer.

[0038] Figure 15 illustrates surface features 1410, 1490 including different sections, various designs, and various indicia printed thereon in addition to other surface features. The indicia may indicate the brand mark 1520 or associate website of the label sheet assembly 10. The brand mark 1520 may be a raised surface feature as described and include indicia representative of a website representative of a type of template associated with the label sheet assembly 10. The website may allow a user to easily incorporate the appropriate template associated with a word processor program to process and align text or other indicia with the indicia receiving portions of the labels 60. The plurality of surface features as illustrated by Figure 15 may be arranged along an area of the back of the liner sheet where printer feeding devices are positioned.

[0039] The embodiments of the surface features 1180, 1190, 1410, 1490 as illustrated by Figures 11-15 may have a combination of surface elements as illustrated by Figure 10. The combination may be optimized for traction to improve printer processing, ease of handling the

sheets by the user, and visual aesthetics. Further, the bottom surface features 1180, 1190 may be a zone of increased traction, friction, tactile sensitivity, or flexibility imparted by coating or embossing to improve printer processing. Printing processing issues may be improved to reduce the skewing of printed indicia during printing through a printer device and reduce the occurrence of having multiple sheets fed through the printer at once, leading to jam.

[0040] In another embodiment as illustrated by Figures 16, 17, and 18, the pattern of the printed texture of the bottom surface features 1180, 1190 may include at least one of the randomization pattern, the angled orientation, and the grip strip pattern. These figures illustrate a tire tread pattern but, notably, any type of pattern may be utilized and be aligned along header and footer and also include a vertical orientation aligned along the third edge 16 or the fourth edge 18 of the label sheet assembly 10. This disclosure in not limited to the pattern or quantity of surface features utilized in a label sheet assembly 10. In this embodiment, the first vertical surface features 1180 are aligned along the third edge 16 and the second vertical surface features 1190 are aligned along the third edge 18 and middle vertical surface features 1210 are aligned along the center portion of the bottom surface 24. Here the first and second vertical surface features 1180, 1190 have common configurations that include a plurality of spaced areas with rounded outer edges with printed texture in the form of grip strip relief varnish. The grip strip relief varnish may be touch sensitive to a user for tactile feel. The third vertical surface features 1210 include a plurality of spaced areas 1212 aligned with the plurality of spaced areas of the first and second vertical surface features 1180, 1190. The plurality of spaced areas 1212 of the third vertical surface features 1210 include a generally arrow or carrot shape with rounded edges in which a pinnacle 1216 of the spaced arrows are aligned along a central axis of the sheet. Printed texture in the form of grip strip relief varnish may be within the spaced area and outer portions 1214 may be aligned with the spaced areas 1182, 1192 of the first and second vertical surface features 1180, 1190. It is also noted that the printed texture embodiment may be accompanied with various indicia and color schemes along a bottom header portion 1410 and a bottom footer portion 1490 of the liner sheet 40. Figure 17 illustrates the label sheet assembly with the header and footer surface features 1410, 1490 while Figure 18 illustrates the label sheet assembly without them.

[0041] In other embodiments, the bottom surface features 1180, 1190, 1212, 1410, 1490 may include either the printed texture or the embossed texture applied to the bottom surface 24 of the liner sheet 40. In one embodiment, surface features 1410, 1490, as illustrated by Figure 19, may include embossed texture in the form of a plurality of micro-cuts being arranged in a pattern such as a diamond type pattern. The embossed texture surface feature may also be utilized with label sheet assemblies 10 that are made from contrasting colors from the remaining portion of the label sheet assembly 10. The embossed texture surface feature may be provided along the feed edges to provide tactile perspective to a user and also to improve feeding characteristics when processing the label sheet through a printer. As illustrated by Figure 20, the surface features 1410, 1490 may also be printed texture in the form of matt ink. It should be understood, however, that the present combination of features may apply to any of the label sheet assemblies 10. For the sake of brevity of the present disclosure, not every example is included, but the present application contemplates any appropriate combination of features.

[0042] Further described is a method (not encompassed by the appended claims) of creating the label sheet assembly 10 with the bottom surface features 1180, 1190. In one embodiment, the bottom surface features 1180, 1190 may be provided along the third edge 16 and/or the fourth edge 18 of the label sheet assembly 10. The bottom surface features 1180, 1190 may be applied with at least one of an ink material, adhesive material, and coating material in a desired pattern. The material may then be cured with a UV light. Alternatively, the bottom surface features 1180, 1190 may be embossed along the third edge 16 and/or the fourth edge 18 in a desired pattern.

[0043] Figures 21-53 illustrate embodiments of the label sheet assembly 10 having various different configurations of surface features 80, 90 along the header portion 120 and footer portion 130 of a front portion thereon. These surface features may be printed texture type or emboss texture type and may be a grip strip pattern of elevated elements. In these embodiments, the patterns may include: rows of recessed arrows (Fig. 21) rows of recessed squares (Fig. 22), random recessed roughness (Fig. 23), rows of recessed scales or arches (Fig. 24), recessed thick diagonal lines (Fig. 25), rows of recessed opposing diagonal lines (Fig. 26), plurality of recessed horizontal grip strip lines (Fig. 27), rows of recessed dots (Fig. 28), recessed lines and angled patterns (Fig. 29), rows of arrows (Fig. 30), rows of squares (Fig. 31), random raised roughness (Fig. 32), rows of scales or arches (Fig. 33), thick diagonal lines (Fig. 34), rows of opposing diagonal lines (Fig. 35), plurality of horizontal grip strip lines (Fig. 36), rows of raised dots (Fig. 37), raised lines and angled patterns (Fig. 38), rows of small diamond dots (Fig. 39), rows of tiny diamond dots (Fig. 40), plurality of spaced small dots (Fig. 41), plurality of spaced round dots (Fig. 42), plurality of spaced tiny round dots (Fig. 43), plurality of spaced round dots (Fig. 44), blue colored printed texture with indicia (Figs. 45 and 48), green colored printed texture with indicia (Figs. 46 and 49), red colored printed texture with indicia (Figs. 47 and 50), blue colored printed texture with diagonal lines and indicia (Fig. 51), an example of a back surface with blue printed texture with indicia (Fig. 52), and an example of a back surface with grey printed texture with indicia (Fig. 53). Figures 45-53 illustrate various embodiments of the label

sheet assembly having various colors along the header and footer portions along with contrasting indicia. In particular, the colors identified include the following Pantone Matching System colors ("PMS"): Blue (PMS 286), Red (PMS 185), Green (PMS 368), and Gray (PMS Warm Gray 5). Notably, this disclosure contemplates that the label sheet assemblies of these colored embodiments may also include at least one of the surface features 80, 90 and at least one of the header/footer colors. Thus, the label sheet assembly may include a pairing of a raised surface feature with a solid color having a reverse color text (such as white).

Claims

1. A label sheet assembly (10) comprising:

a facestock layer (20) having first (22) and second sides, the facestock layer including at least one cut line (50) that defines at least one label (60) and a matrix portion (70) on the first side wherein the facestock layer is configured to receive indicia thereon;
an adhesive layer (30) along the second side;
a liner sheet layer (40) having top and bottom surfaces (24), the top surface attached to the adhesive layer along the facestock layer wherein the label sheet assembly (10) includes a first edge (12) and opposite second edge (14) along with a third edge (16) and opposite fourth edge (18); and
at least one surface feature (80, 90, 1180, 1190, 1280, 1282, 1290, 1292, 1380, 1390, 1410, 1420, 1430, 1490) along the bottom surface (24) of the liner sheet layer **characterised in that** the at least one surface feature includes a printed texture formed into a pattern that provides a zone of increased tactile sensitivity and including a first vertical surface feature (1180, 1420), a second vertical surface feature (1190, 1420) and a third vertical surface feature (1210, 1430) wherein the at least one vertical surface feature extends generally parallel to the third edge between the first edge and the second edge and the vertical surface features are aligned along a process direction as the label sheet is to be processed through a printer.

2. The label sheet assembly according to claim 1, further comprising a first surface feature (80, 1180, 1280, 1380, 1410) applied along a header portion (120) of the first side (22) of the facestock layer.

3. The label sheet assembly according to claim 1, further comprising a second surface feature (90, 1190, 1290, 1390, 1490) applied along a footer portion (130) opposite of the first side of the facestock layer along an opposite edge of the first surface feature.

4. The label sheet assembly according to claim 1, wherein the at least one surface feature includes alignment features (100, 104) wherein the alignment features include at least one of a diagonal line and a straight line relative to leading edges (12, 14) to visually assist a user to align the label sheet assembly with a printer.

5. The label sheet assembly according to claim 1 wherein the first and second vertical surface features include a plurality of spaced areas (1182. 1192) with rounded outer edges.

6. The label sheet assembly according to claim 5, wherein the third vertical surface feature includes a plurality of spaced areas (1212) having a general arrow shape (1216) with rounded edges and are generally aligned with the plurality of spaced areas of the first and second vertical surface features.

7. The label sheet assembly according to claim 1, further comprising a second surface feature (90, 1190, 1290, 1390, 1490) applied along a footer portion (130) along the bottom surface (24) of the liner sheet layer along an opposite edge of the first surface feature.

8. The label sheet assembly according to claim 1, wherein the first surface feature along the bottom surface is aligned with a surface feature along the matrix portion.

9. The label sheet assembly according to claim 8, wherein the first surface feature and the second surface feature includes a solid color with contrasting indicia.

10. The label sheet assembly according to claim 9, wherein the solid color includes at least one of blue, e.g. PMS 286, red, e.g. PMS 185, green, e.g. PMS 368, and gray, e.g. PMS Warm Gray 5.

11. The label sheet assembly according to claim 8, wherein the bottom side further includes at least one of a first surface feature, a second surface feature, a solid color header, and a solid color footer.

12. The label sheet assembly according to claim 11, wherein the bottom side includes a header portion and a footer portion with a solid color that is different from the header portion and the footer portion of the facestock layer.

13. The label sheet assembly according to claim 12, wherein the contrasting indicia includes alignment features wherein the alignment features (100, 104)

include at least one of a diagonal line and a straight line relative to leading edges (12, 14) to visually assist a user to align the label sheet assembly with a printer.

Patentansprüche

1. Etikettenfolienanordnung (10) umfassend:

   eine Obermaterialschicht (20), die eine erste (22) und eine zweite Seite aufweist, wobei die Obermaterialschicht mindestens eine Schnittlinie (50) beinhaltet, die mindestens ein Etikett (60) und einen Matrixabschnitt (70) auf der ersten Seite definiert, wobei die Obermaterialschicht dazu konfiguriert ist, Kennzeichnungen darauf aufzunehmen;
   eine Haftschicht (30) entlang der zweiten Seite;
   eine Basisfolienschicht (40), die eine Ober- und eine Unterseitenoberfläche (24) aufweist, wobei die Oberseitenoberfläche entlang der Obermaterialschicht an der Haftschicht angebracht ist und wobei die Etikettenfolienanordnung (10) eine erste Kante (12) und eine gegenüberliegende zweite Kante (14) zusammen mit einer dritten Kante (16) und einer gegenüberliegenden vierten Kante (18) beinhaltet; und
   mindestens ein Oberflächenmerkmal (80, 90, 1180, 1190, 1280, 1282, 1290, 1292, 1380, 1390, 1410, 1420, 1430, 1490) entlang der Unterseitenfläche (24) der Basisfolienschicht, **dadurch gekennzeichnet, dass** das mindestens eine Oberflächenmerkmal eine gedruckte Textur beinhaltet, die zu einem Muster geformt ist, das eine Zone mit erhöhter taktiler Sensitivität bereitstellt und ein erstes vertikales Oberflächenmerkmal (1180, 1420), ein zweites vertikales Oberflächenmerkmal (1190, 1420) und ein drittes vertikales Oberflächenmerkmal (1210, 1430) beinhaltet, wobei das mindestens eine vertikale Oberflächenmerkmal sich im Allgemeinen parallel zu der dritten Kante zwischen der ersten Kante und der zweiten Kante erstreckt und die vertikalen Oberflächenmerkmale in einer Verarbeitungsrichtung, da die Etikettenfolie durch einen Drucker zu verarbeiten ist, ausgerichtet sind.

2. Etikettenfolienanordnung nach Anspruch 1, ferner umfassend ein erstes Oberflächenmerkmal (80, 1180, 1280, 1380, 1410), das entlang eines Kopfabschnitts (120) der ersten Seite (22) der Obermaterialschicht aufgebracht ist.

3. Etikettenfolienanordnung nach Anspruch 1, ferner umfassend ein zweites Oberflächenmerkmal (90, 1190, 1290, 1390, 1490), das entlang eines Fußabschnitts (130) gegenüberliegend der ersten Seite der Obermaterialschicht entlang einer gegenüberliegenden Kante des ersten Oberflächenmerkmals aufgebracht ist.

4. Etikettenfolienanordnung nach Anspruch 1, wobei das mindestens eine Oberflächenmerkmal Ausrichtungsmerkmale (100, 104) beinhaltet, wobei die Ausrichtungsmerkmale mindestens eins von einer diagonalen Linie und einer geraden Linie, relativ zu den Vorderkanten (12, 14) beinhalten, um einen Benutzer visuell beim Ausrichten der Etikettenfolienanordnung mit einem Drucker zu unterstützen.

5. Etikettenfolienanordnung nach Anspruch 1, wobei das erste und das zweite vertikale Oberflächenmerkmal eine Vielzahl von beabstandeten Bereichen (1182, 1192) mit abgerundeten Außenkanten beinhalten.

6. Etikettenfolienanordnung nach Anspruch 5, wobei das dritte vertikale Oberflächenmerkmal eine Vielzahl von beabstandeten Bereichen (1212), die eine allgemeine Pfeilform (1216) mit abgerundeten Kanten aufweisen und im Allgemeinen mit der Vielzahl von beabstandeten Bereichen des ersten und des zweiten vertikalen Oberflächenmerkmals ausgerichtet sind, beinhaltet.

7. Etikettenfolienanordnung nach Anspruch 1, ferner umfassend ein zweites Oberflächenmerkmal (90, 1190, 1290, 1390, 1490), das entlang eines Fußabschnitts (130) entlang der Unterseitenoberfläche (24) der Basisfolienschicht entlang einer gegenüberliegenden ersten Kante des ersten Oberflächenmerkmals aufgebracht ist.

8. Etikettenfolienanordnung nach Anspruch 1, wobei das erste Oberflächenmerkmal entlang der Unterseitenoberfläche mit einem Oberflächenmerkmal entlang des Matrixabschnitts ausgerichtet ist.

9. Etikettenfolienanordnung nach Anspruch 8, wobei das erste Oberflächenmerkmal und das zweite Oberflächenmerkmal eine einheitliche Farbe mit kontrastierender Kennzeichnung beinhalten.

10. Etikettenfolienanordnung nach Anspruch 9, wobei die einheitliche Farbe mindestens eine von blau, z. B. PMS 286, rot, z. B. PMS 185, grün, z. B. PMS 368, und grau, z. B. PMS Warm Gray 5, beinhaltet.

11. Etikettenfolienanordnung nach Anspruch 8, wobei die Unterseite ferner mindestens eins von einem ersten Oberflächenmerkmal, einem zweiten Oberflächenmerkmal, einem Kopf in einheitlicher Farbe und einem Fuß in einheitlicher Farbe beinhaltet.

12. Etikettenfolienanordnung nach Anspruch 11, wobei die Unterseite einen Kopfabschnitt und einen Fußabschnitt in einer einheitlichen Farbe, die sich von dem Kopfabschnitt und dem Fußabschnitt der Obermaterialschicht unterscheidet, beinhaltet.

13. Etikettenfolienanordnung nach Anspruch 12, wobei die kontrastierenden Kennzeichnungen Ausrichtungsmerkmale beinhalten, wobei die Ausrichtungsmerkmale (100, 104) mindestens eins von einer diagonalen Linie und einer geraden Linie, relativ zu den Vorderkanten (12, 14) beinhalten, um einen Benutzer visuell beim Ausrichten der Etikettenfolienanordnung mit einem Drucker zu unterstützen.

Revendications

1. Ensemble feuille d'étiquette (10) comprenant :

une couche de face avant (20) ayant un premier (22) et un second côtés, la couche de face avant comportant au moins une ligne de découpe (50) qui définit au moins une étiquette (60) et une partie de matrice (70) sur le premier côté dans lequel la couche de face avant est configurée pour recevoir des indices sur celle-ci ;
une couche adhésive (30) le long du second côté ;
une couche de feuille de revêtement (40) ayant des surfaces supérieure et inférieure (24), la surface supérieure étant fixée à la couche adhésive le long de la couche de face avant, dans lequel l'ensemble feuille d'étiquette (10) comporte un premier bord (12) et un deuxième bord opposé (14) ainsi qu'un troisième bord (16) et un quatrième bord opposé (18) ; et
au moins un élément de surface (80, 90, 1180, 1190, 1280, 1282, 1290, 1292, 1380, 1390, 1410, 1420, 1430, 1490) le long de la surface inférieure (24) de la couche de feuille de revêtement, **caractérisé en ce que** l'au moins un élément de surface comporte une texture imprimée formée sous la forme d'un motif qui fournit une zone de sensibilité tactile accrue et comportant un premier élément de surface verticale (1180, 1420), un deuxième élément de surface verticale (1190, 1420) et un troisième élément de surface verticale (1210, 1430), dans lequel l'au moins un élément de surface verticale s'étend généralement parallèlement au troisième bord entre le premier bord et le deuxième bord et les éléments de surface verticale sont alignés le long d'une direction de processus lorsque la feuille d'étiquette doit être traitée par le biais d'une imprimante.

2. Ensemble feuille d'étiquette selon la revendication 1, comprenant en outre un premier élément de surface (80, 1180, 1280, 1380, 1410) appliqué le long d'une partie de tête (120) du premier côté (22) de la couche de face avant.

3. Ensemble feuille d'étiquette selon la revendication 1, comprenant en outre un deuxième élément de surface (90, 1190, 1290, 1390, 1490) appliqué le long d'une partie de pied de page (130) opposée au premier côté de la couche de face avant le long d'un bord opposé du premier élément de surface.

4. Ensemble feuille d'étiquette selon la revendication 1, dans lequel l'au moins un élément de surface comporte des éléments d'alignement (100, 104), dans lequel les éléments d'alignement comportent au moins l'une d'une ligne diagonale et d'une ligne droite par rapport aux bords d'attaque (12, 14) pour aider visuellement un utilisateur à aligner l'ensemble feuille d'étiquette avec une imprimante.

5. Ensemble feuille d'étiquette selon la revendication 1, dans lequel les premier et deuxième éléments de surface verticale comportent une pluralité de zones espacées (1182, 1192) avec des bords extérieurs arrondis.

6. Ensemble feuille d'étiquette selon la revendication 5, dans lequel le troisième élément de surface verticale comporte une pluralité de zones espacées (1212) ayant une forme générale de flèche (1216) avec des bords arrondis et sont généralement alignées avec la pluralité de zones espacées des premier et deuxième éléments de surface verticale.

7. Ensemble feuille d'étiquette selon la revendication 1, comprenant en outre un deuxième élément de surface (90, 1190, 1290, 1390, 1490) appliqué le long d'une partie de pied de page (130) le long de la surface inférieure (24) de la couche de feuille de revêtement le long d'une bord opposé du premier élément de surface.

8. Ensemble feuille d'étiquette selon la revendication 1, dans lequel le premier élément de surface le long de la surface inférieure est alignée avec un élément de surface le long de la partie de matrice.

9. Ensemble feuille d'étiquette selon la revendication 8, dans lequel le premier élément de surface et le deuxième élément de surface comporte une couleur unie avec des indices contrastés.

10. Ensemble feuille d'étiquette selon la revendication 9, dans lequel la couleur unie comporte au moins un parmi le bleu, par exemple PMS 286, le rouge, par exemple PMS 185, le vert, par exemple PMS 368, et le gris, par exemple PMS Warm Gray 5.

11. Ensemble feuille d'étiquette selon la revendication 8, dans lequel le côté inférieur comporte en outre au moins un élément parmi un premier élément de surface, un deuxième élément de surface, un en-tête de couleur unie et un pied de page de couleur unie.

12. Ensemble feuille d'étiquette selon la revendication 11, dans lequel le côté inférieur comporte une partie d'en-tête et une partie de pied de page avec une couleur unie qui est différente de la partie d'en-tête et de la partie de pied de page de la couche de face avant.

13. Ensemble feuille d'étiquette selon la revendication 12, dans lequel les indices contrastés comportent des éléments d'alignement, dans lequel les éléments d'alignement (100, 104) comportent au moins l'une d'une ligne diagonale et d'une ligne droite par rapport aux bords d'attaque (12, 14) pour aider visuellement un utilisateur à aligner l'ensemble feuille d'étiquette avec une imprimante.

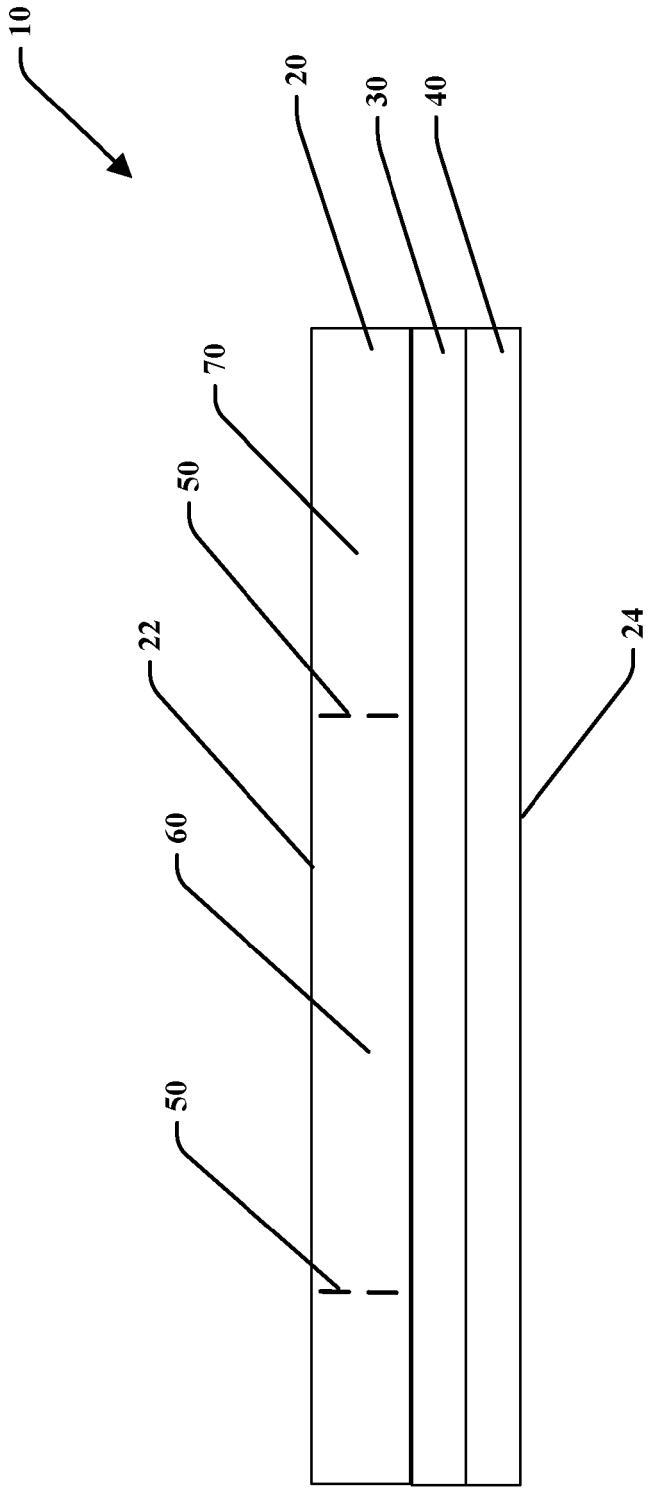


FIG. 1

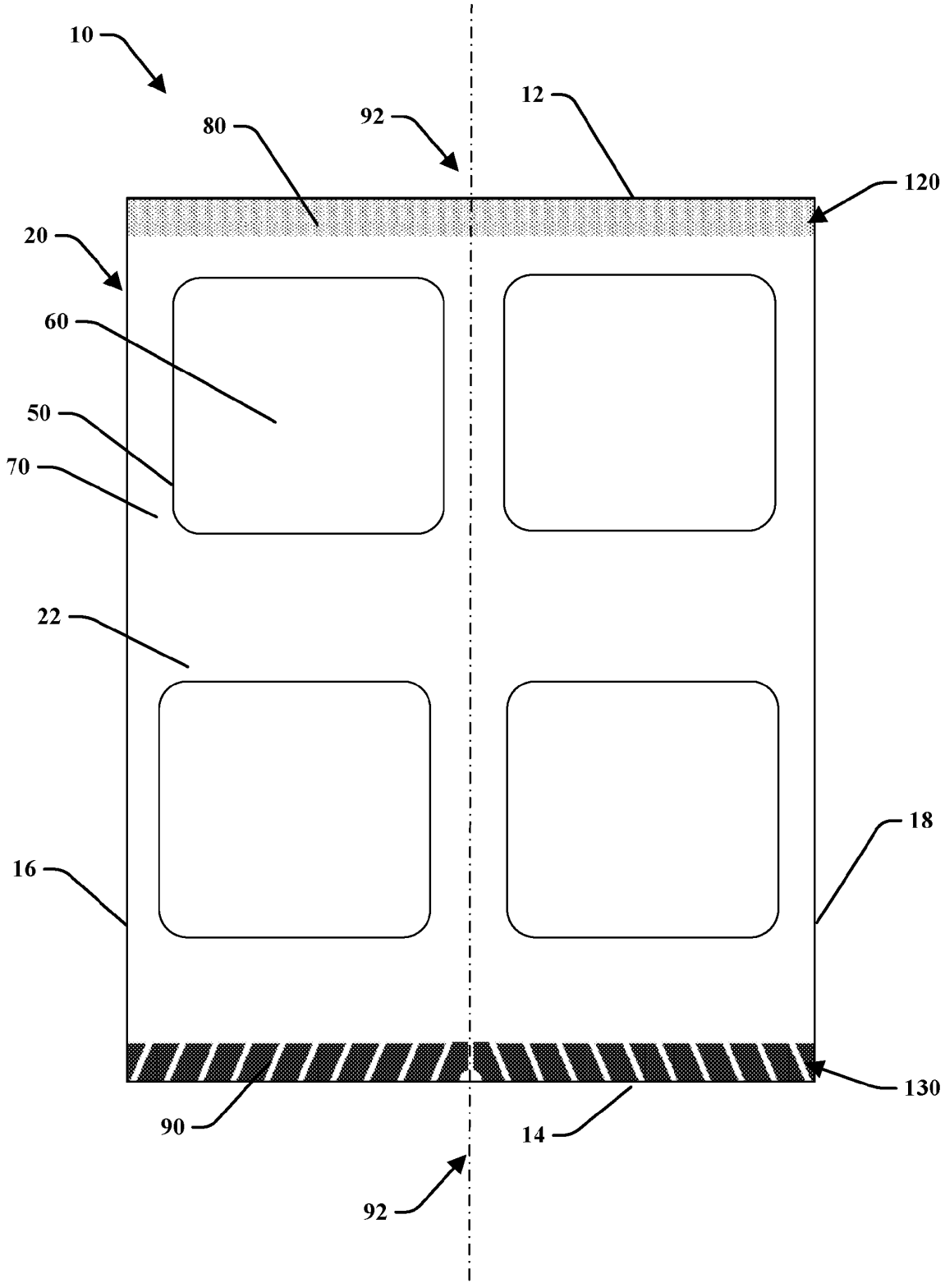


FIG. 2

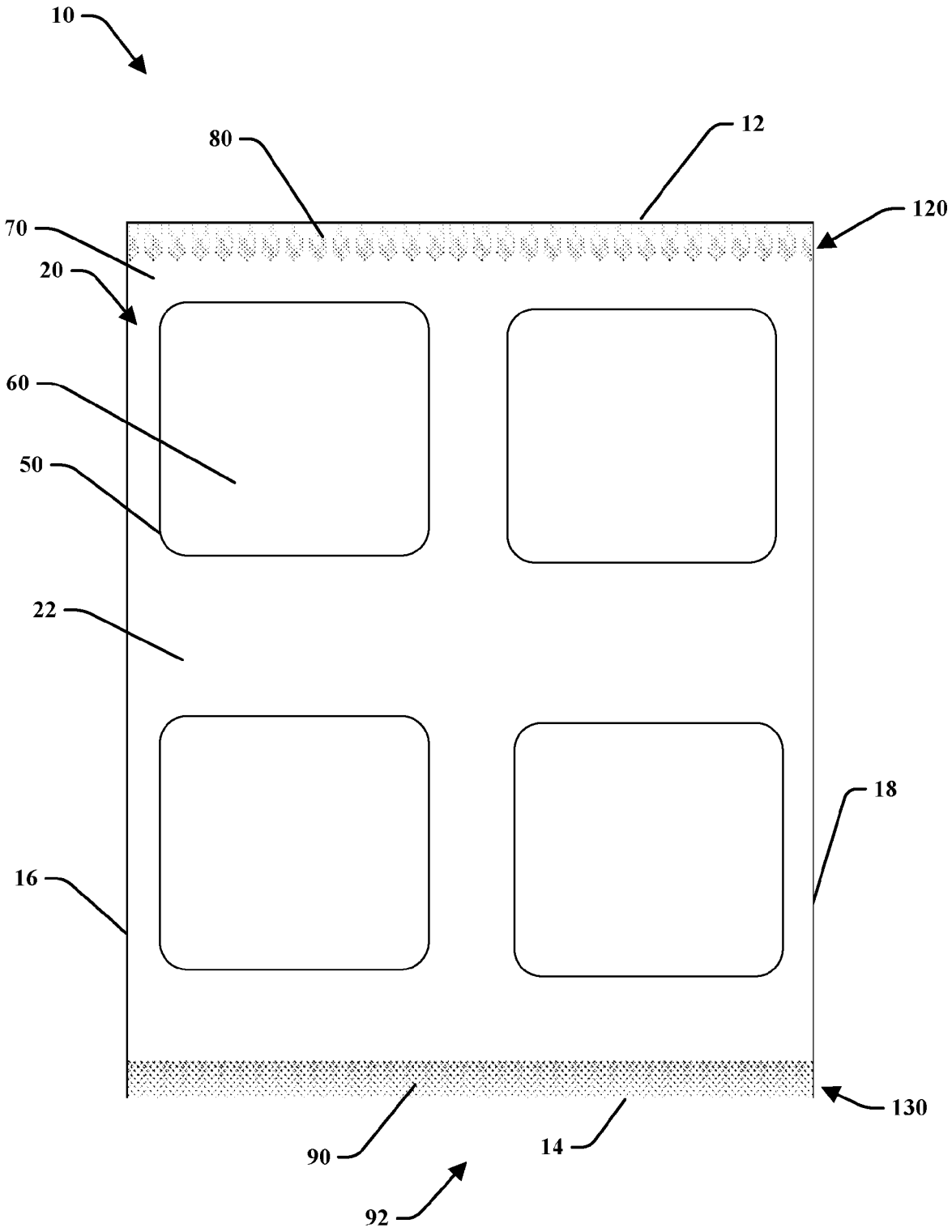


FIG. 3

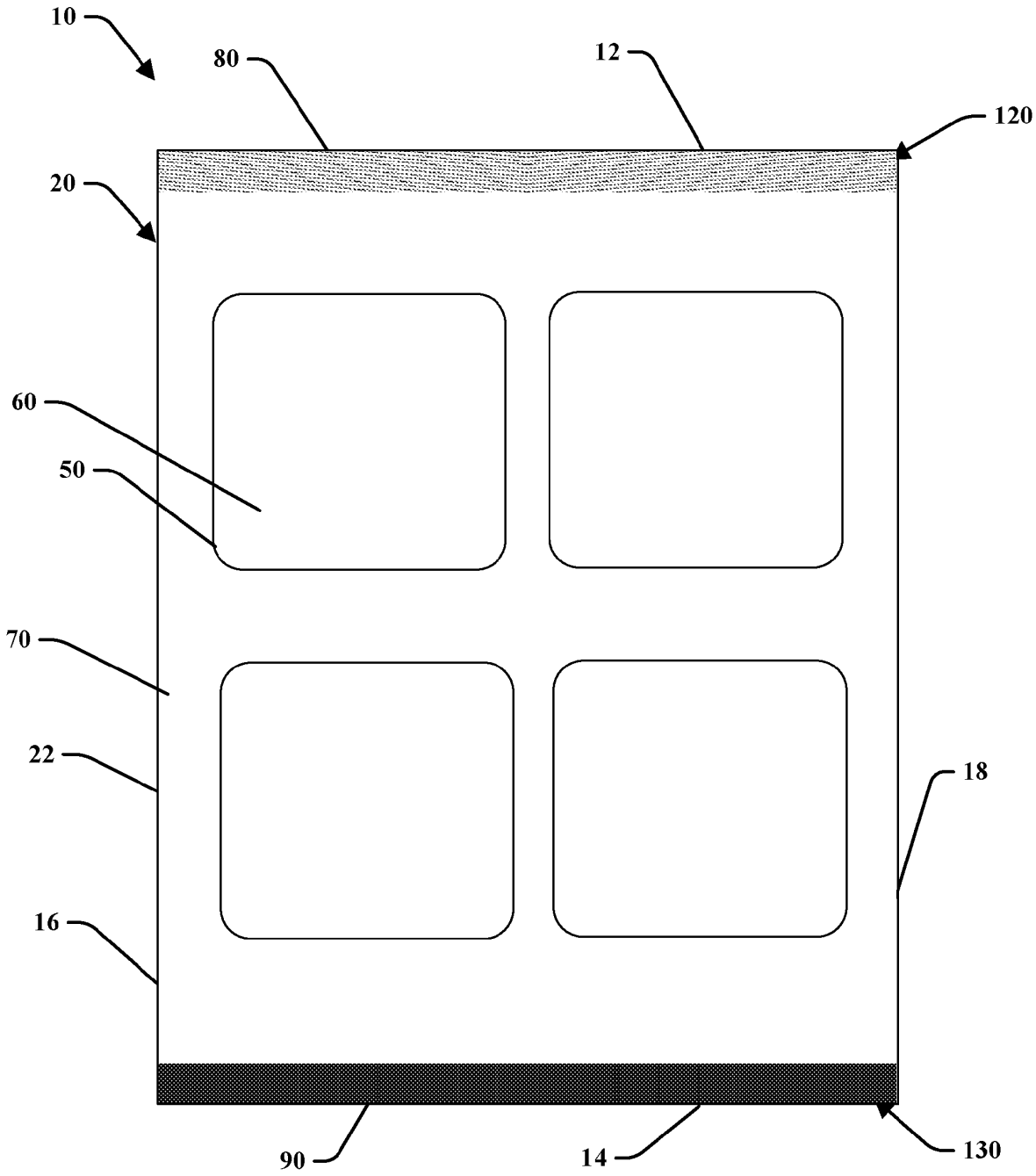


FIG. 4

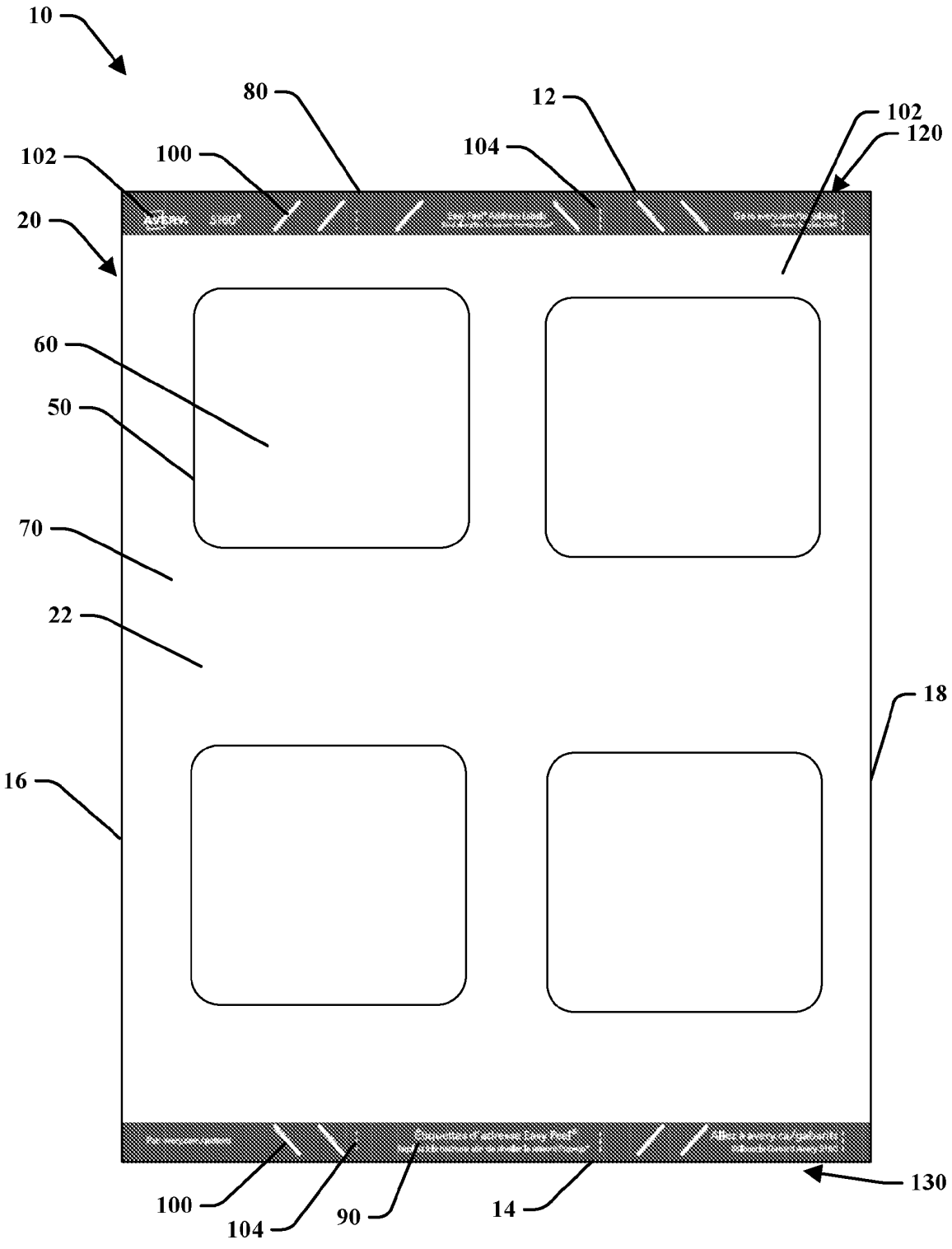


FIG. 5

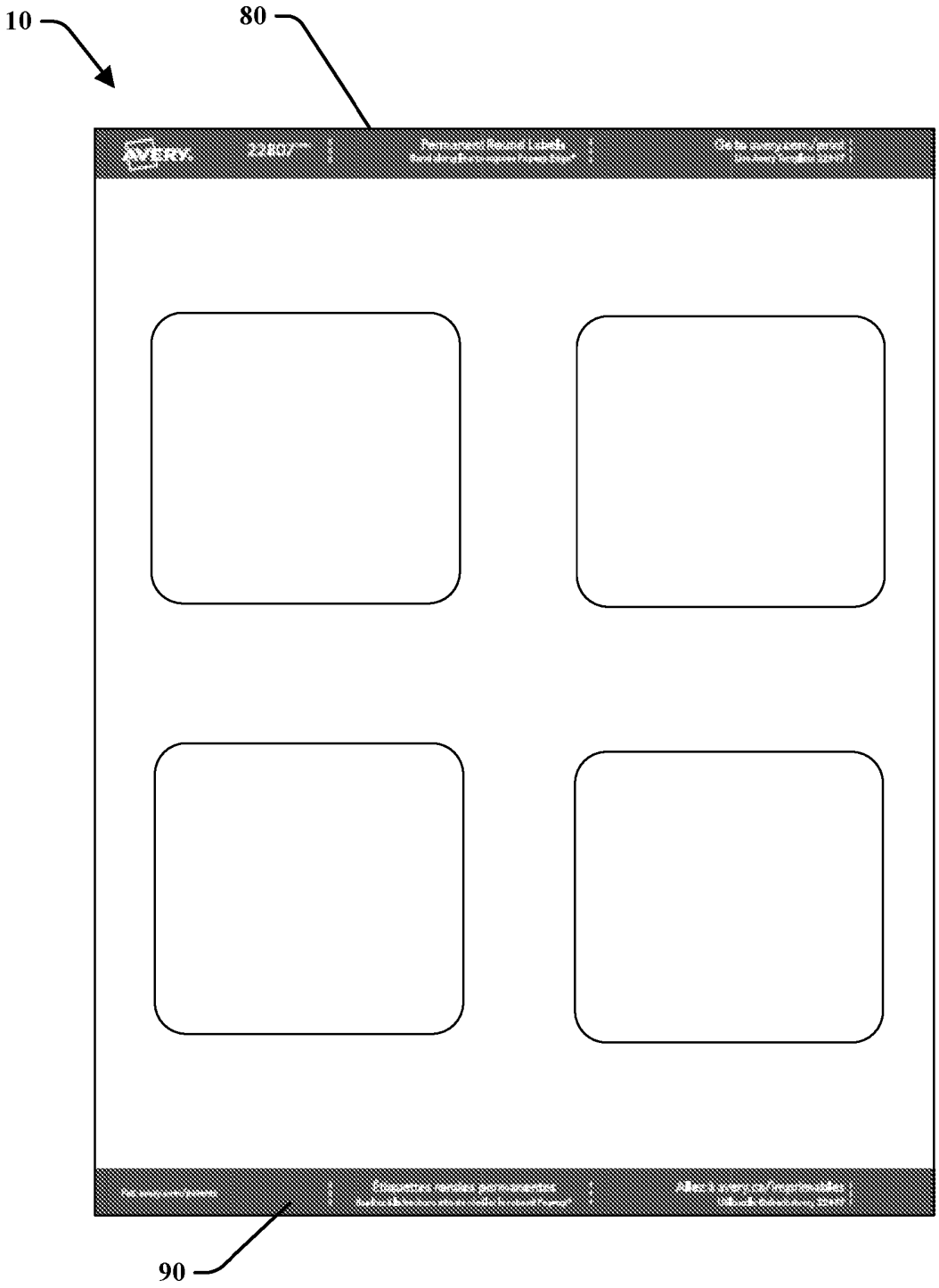


FIG. 6

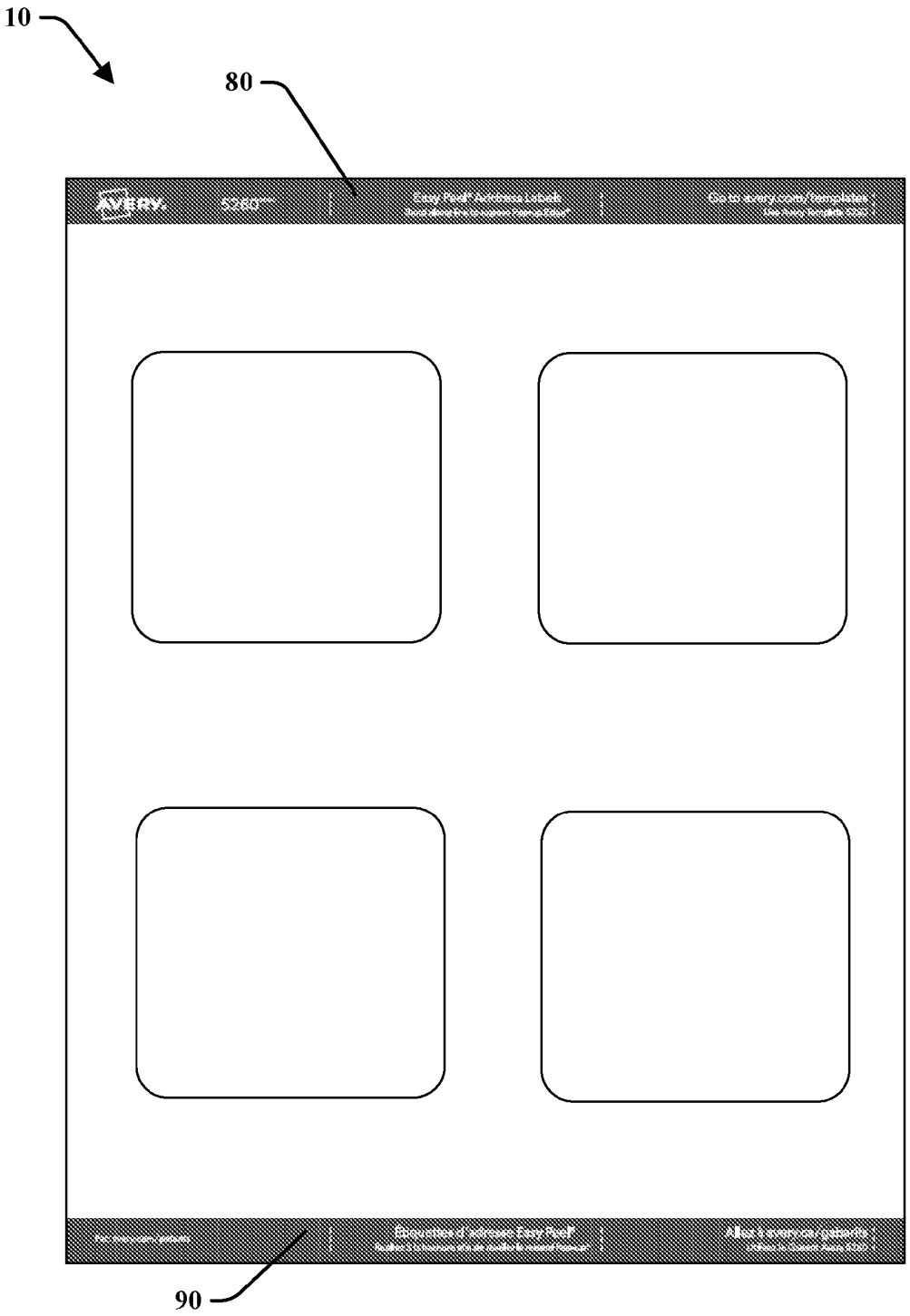


FIG. 7

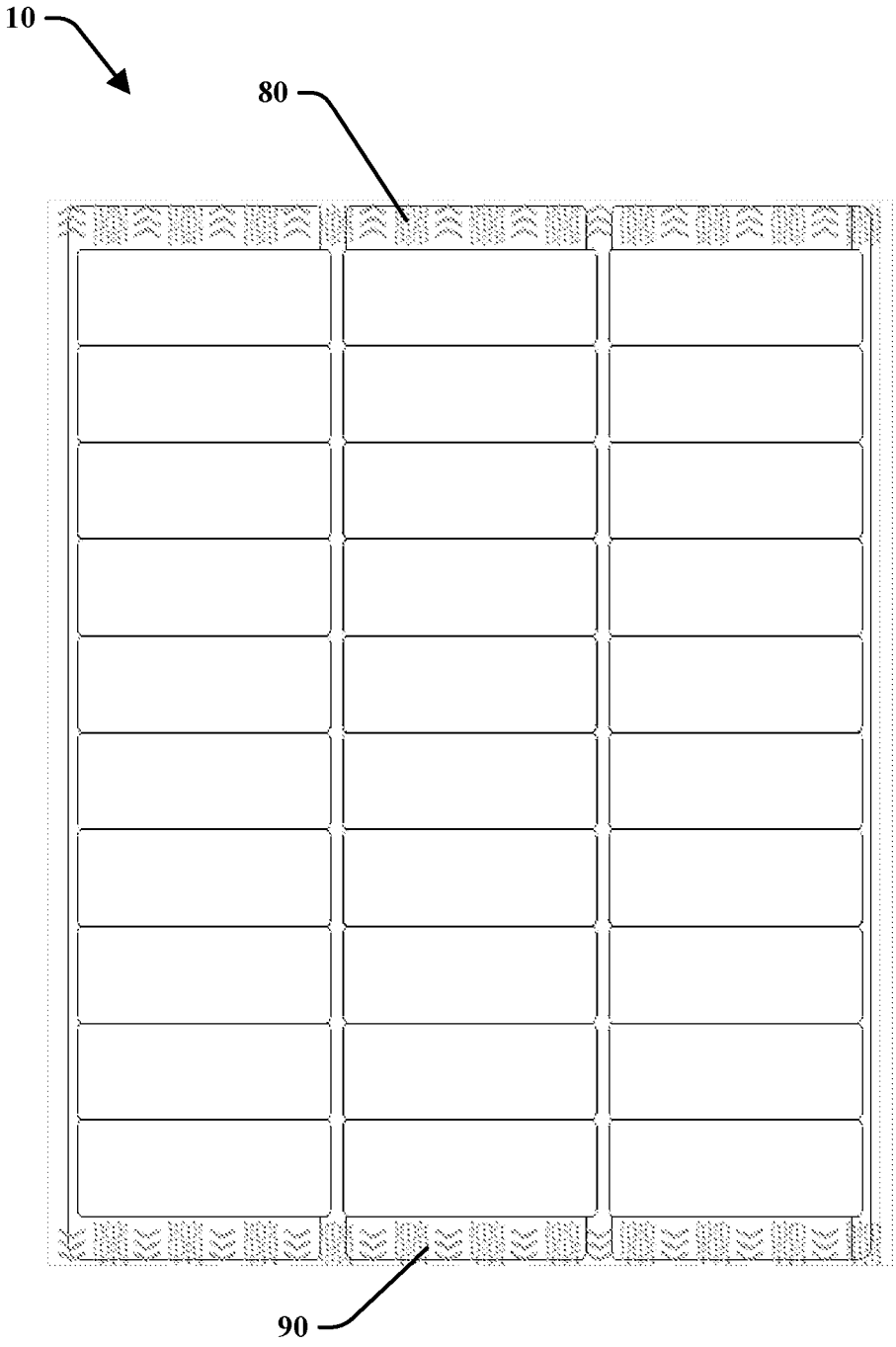


FIG. 8


10
40
80
24
Printing Tips
1 Go to avery.com/print.
2 Design using the template number for this product.
3 Test print on plain paper.
4 Change printer settings to "Labels" and print.
Need help?
Visit avery.com/help
Conseils d'impression
1 Allez à avery.ca/impressions
2 Créez en utilisant le numéro de gabarit pour ce produit.
3 Faites un test d'impression sur du papier ordinaire.
4 Modifier le réglage de l'imprimante à "Étiquettes" et imprimez.
Besoin d'aide?
Visiter avery.ca/aide
Consejos de impresión
1 Visita avery.mx/imprimir
2 Diseña la plantilla utilizando el código del producto.
3 Prueba la impresión en un papel normal.
4 Cambia la configuración de la impresora a "labels" o etiquetas e imprime.
¿Necesitas ayuda?
Visita avery.com/ayuda
Avery® QR Code
AVERY.
90

FIG. 9

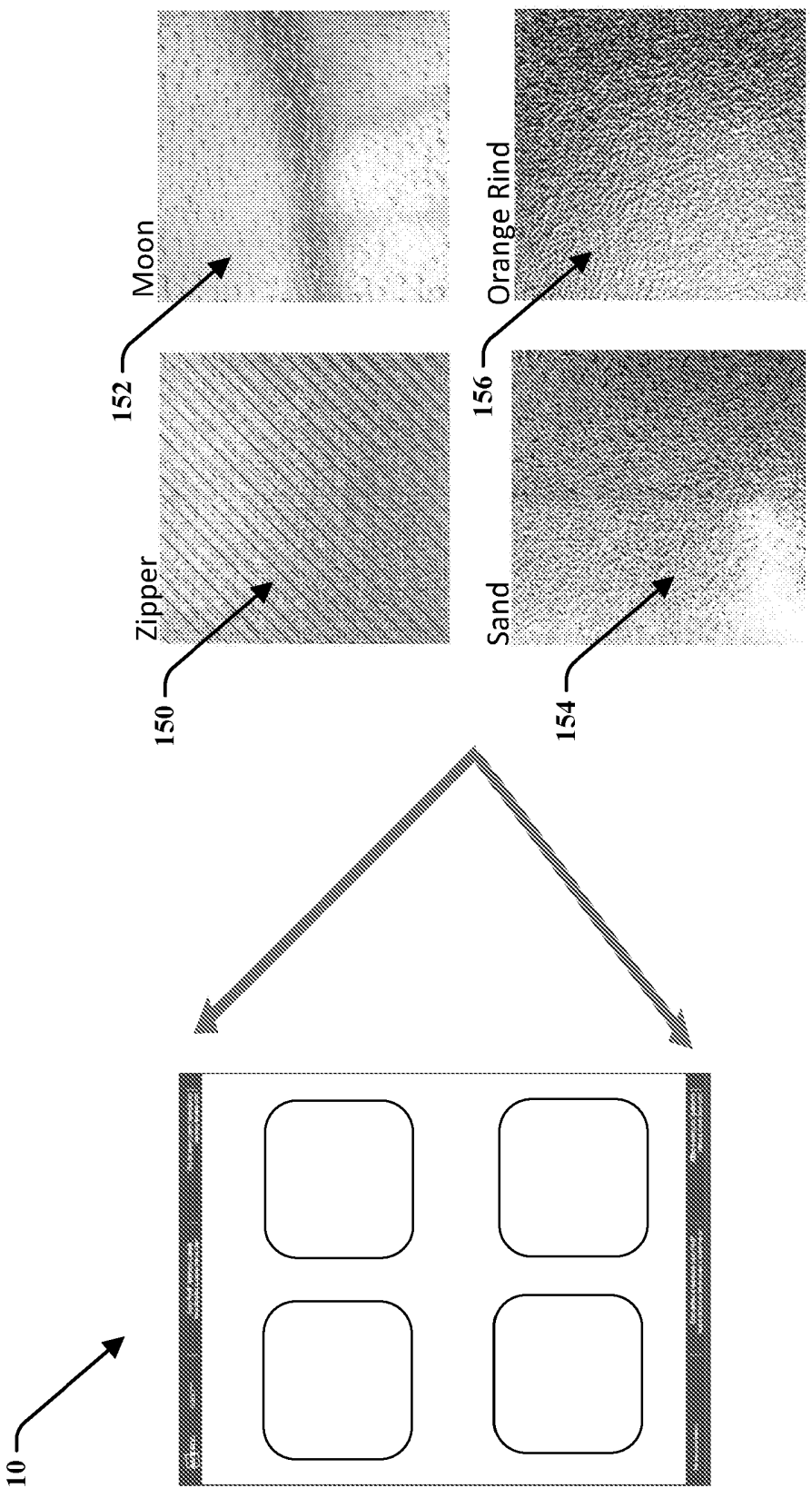


FIG. 10

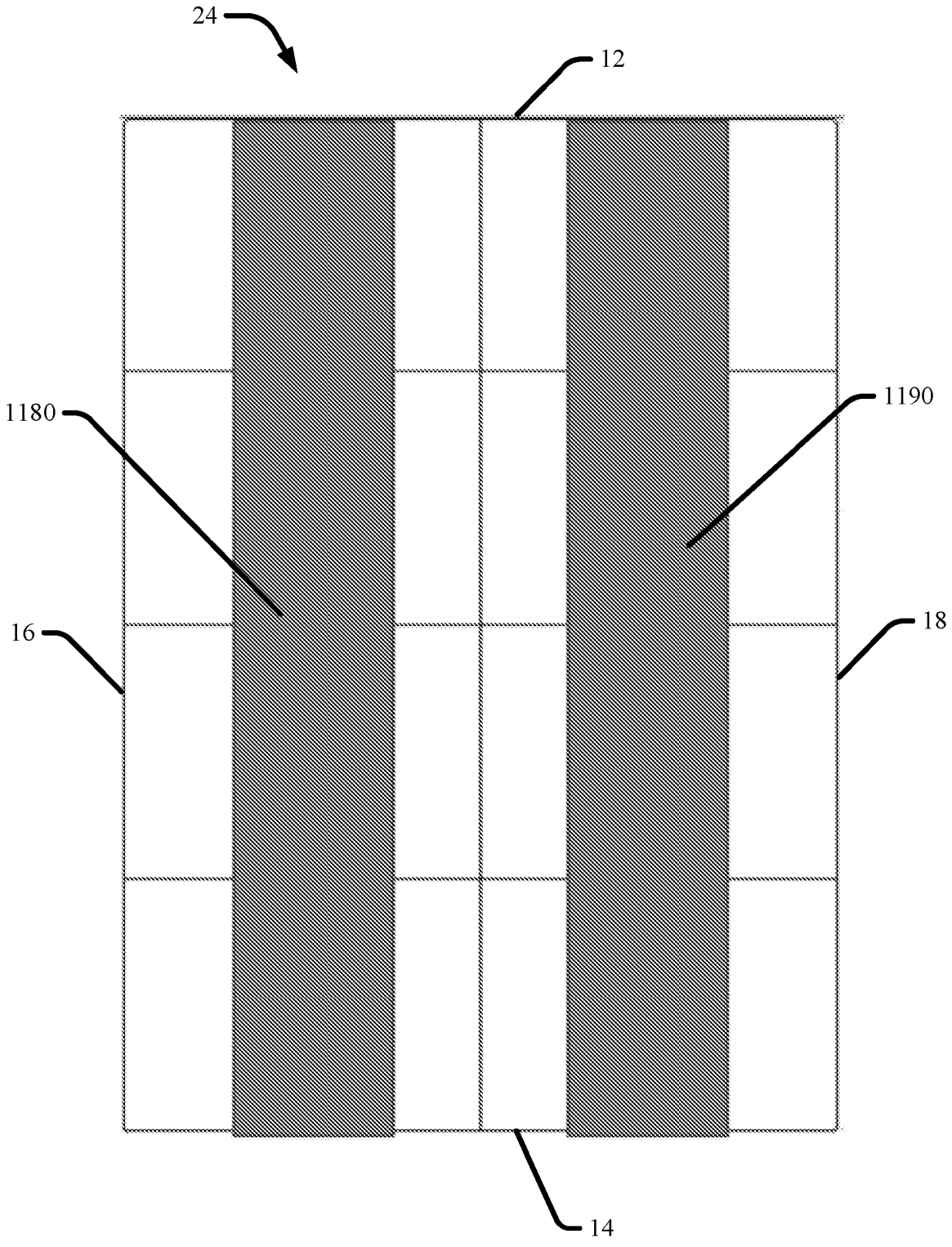


FIG. 11

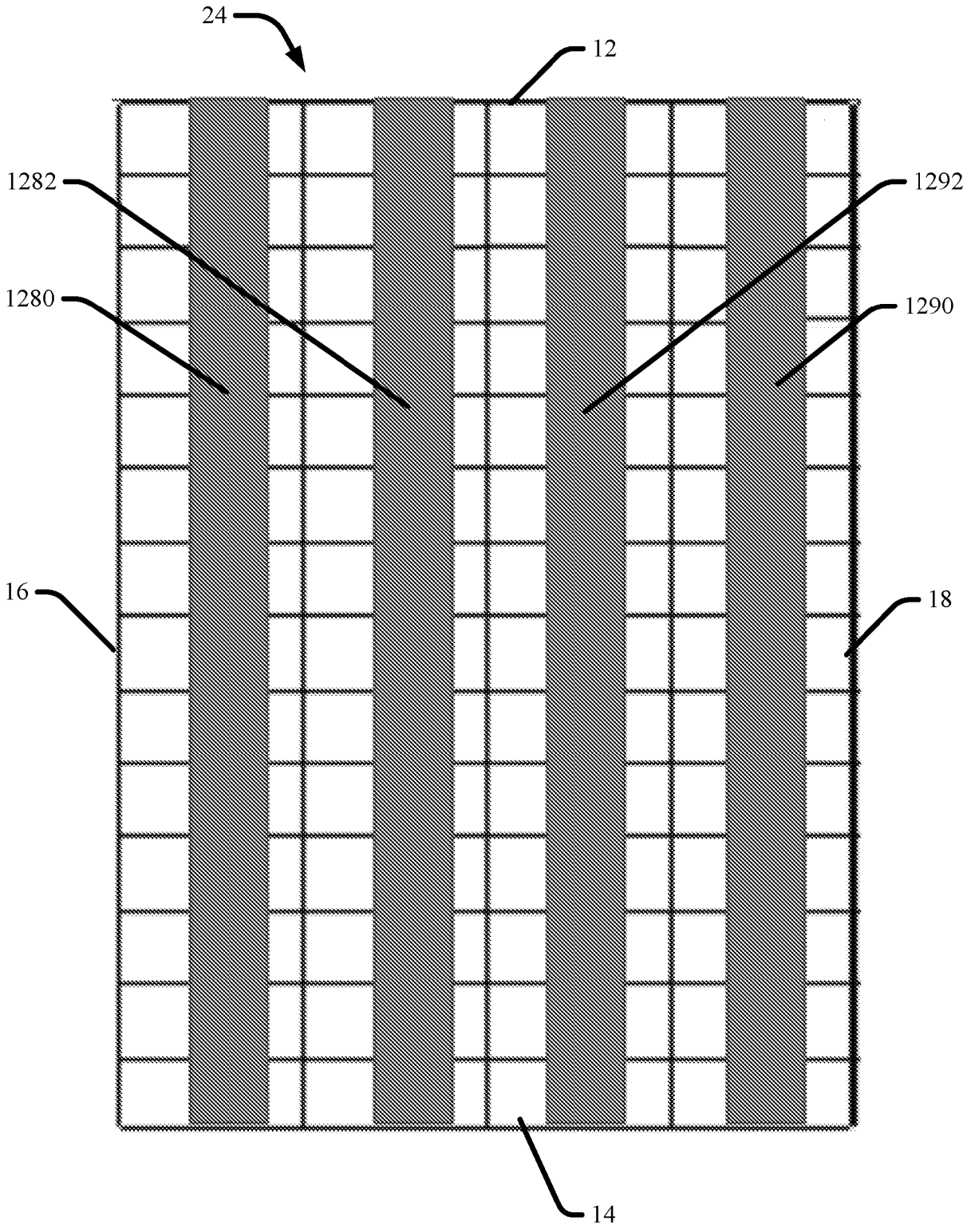


FIG. 12

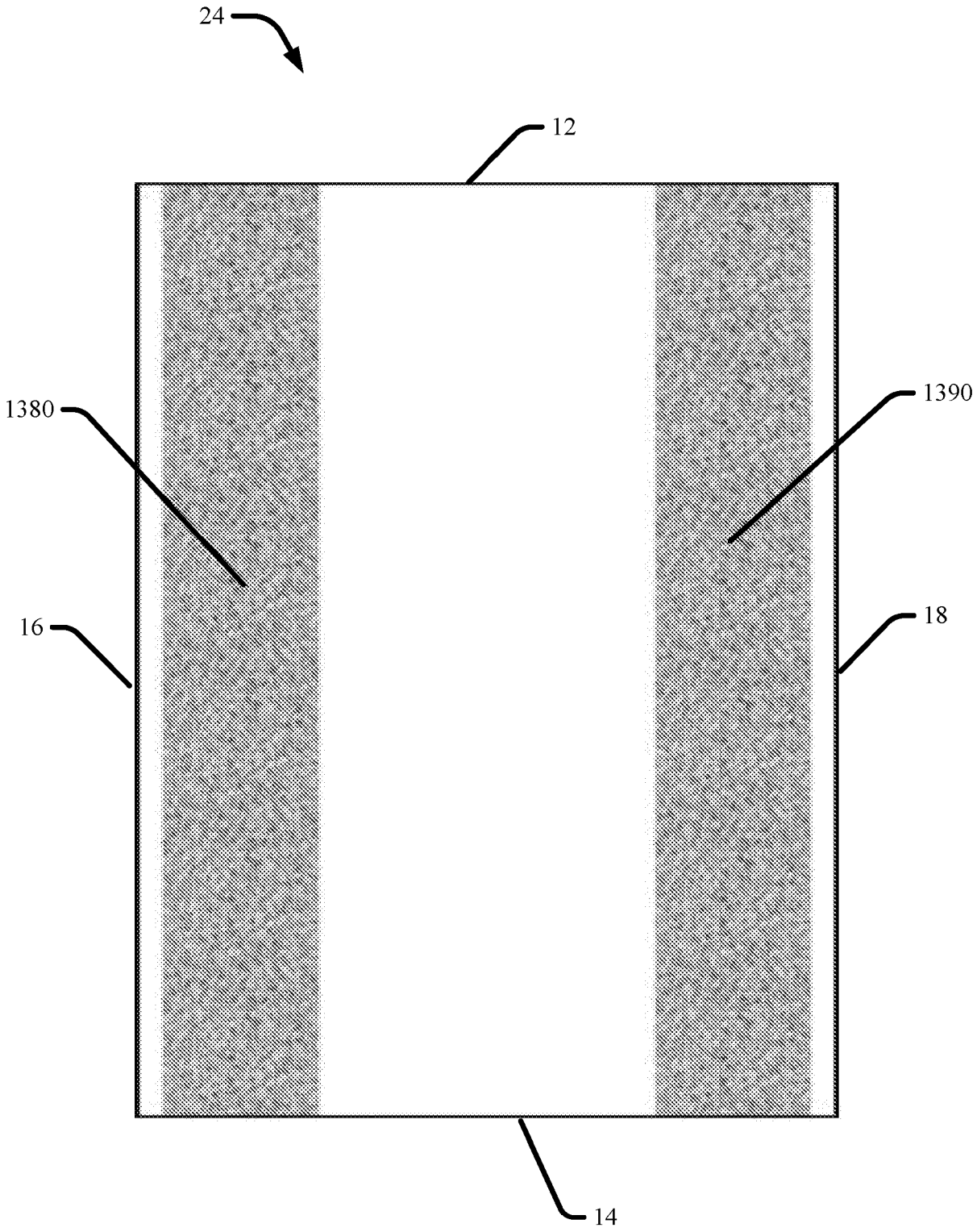


FIG. 13

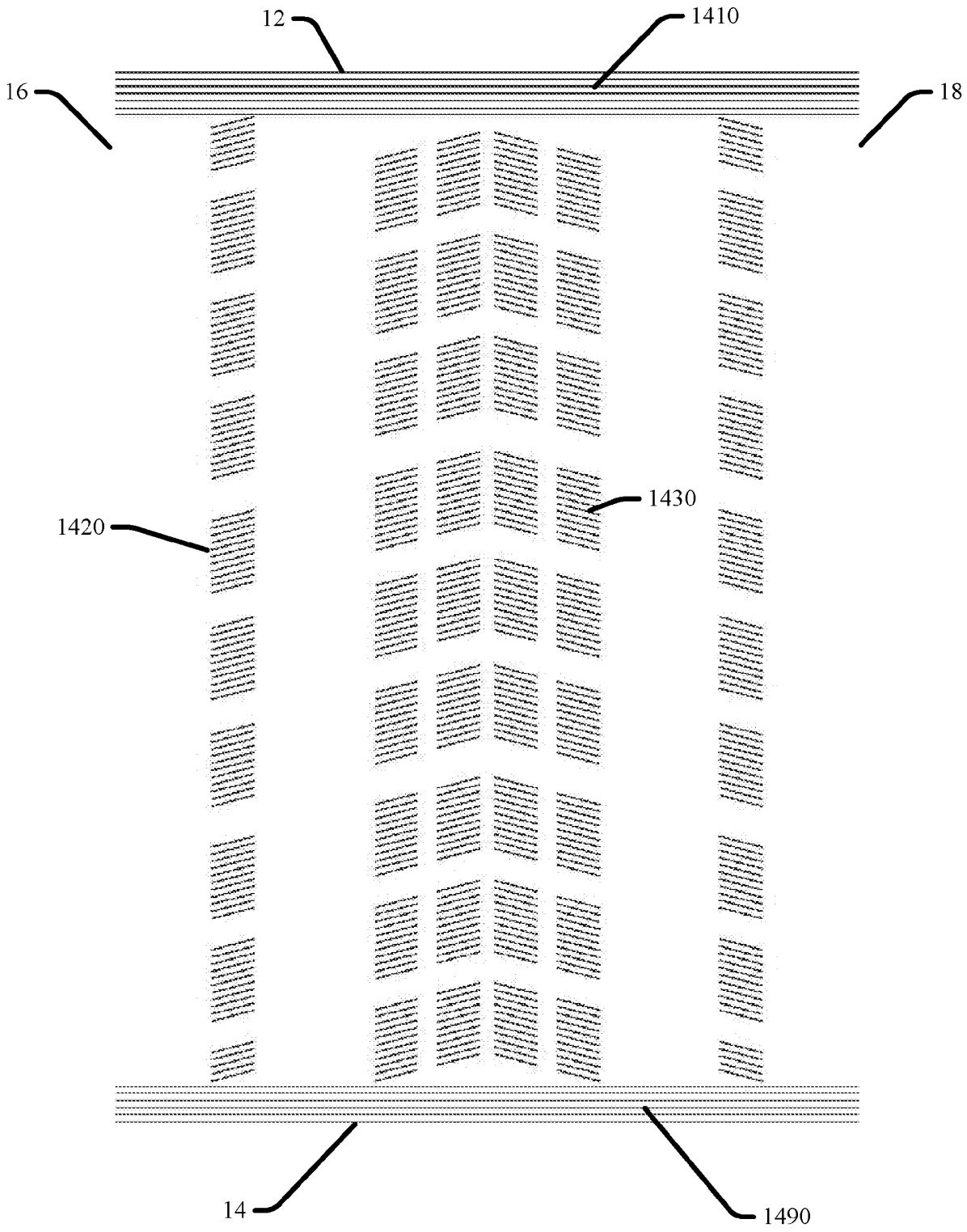
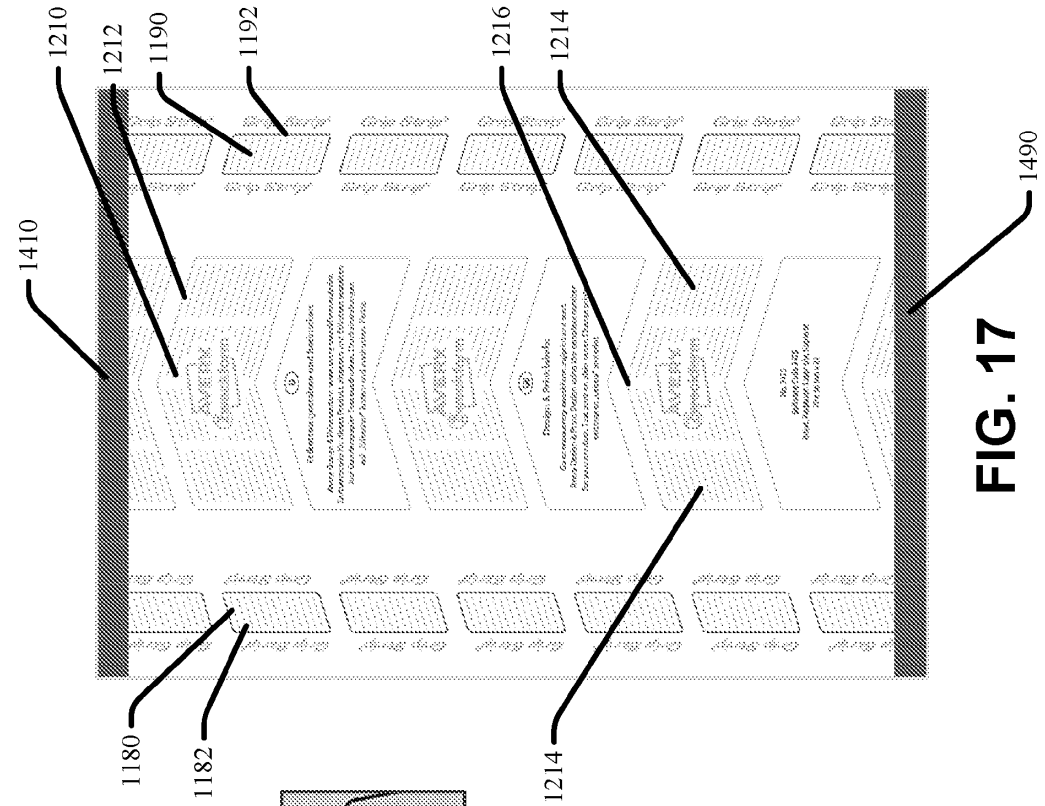


FIG. 14

FIG. 15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1212
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1214
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1490
1180
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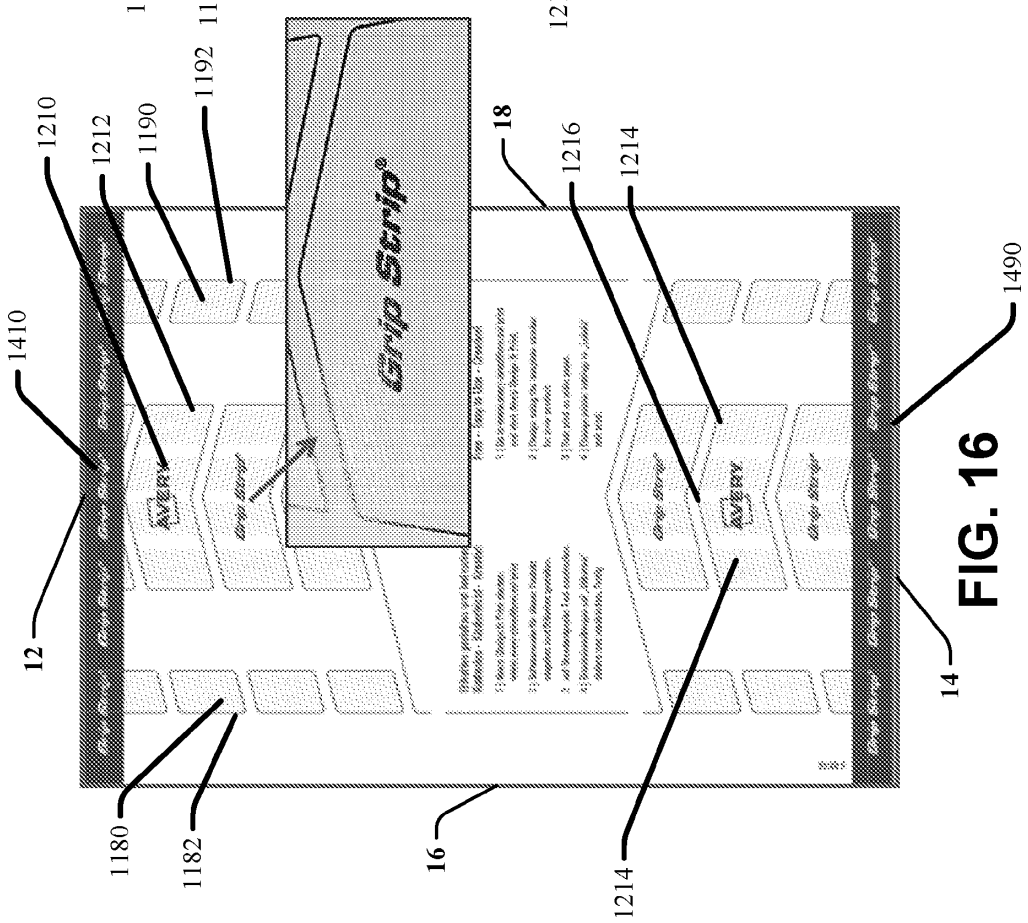
1214

FIG. 17


1210
1212
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1490
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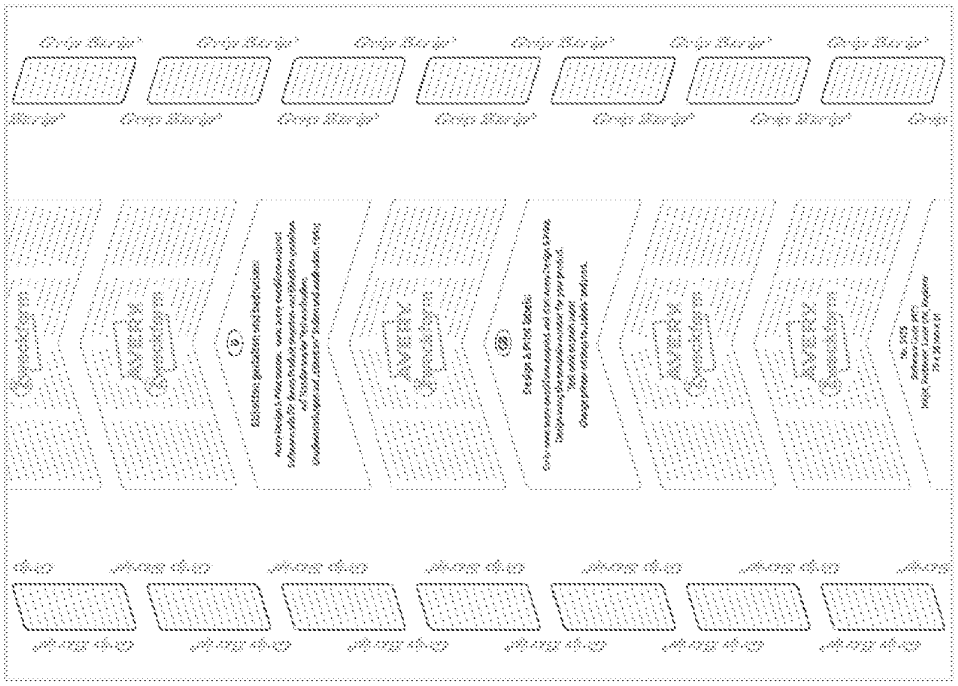
1180
1182
16
1214
Grip Strip®

FIG. 16



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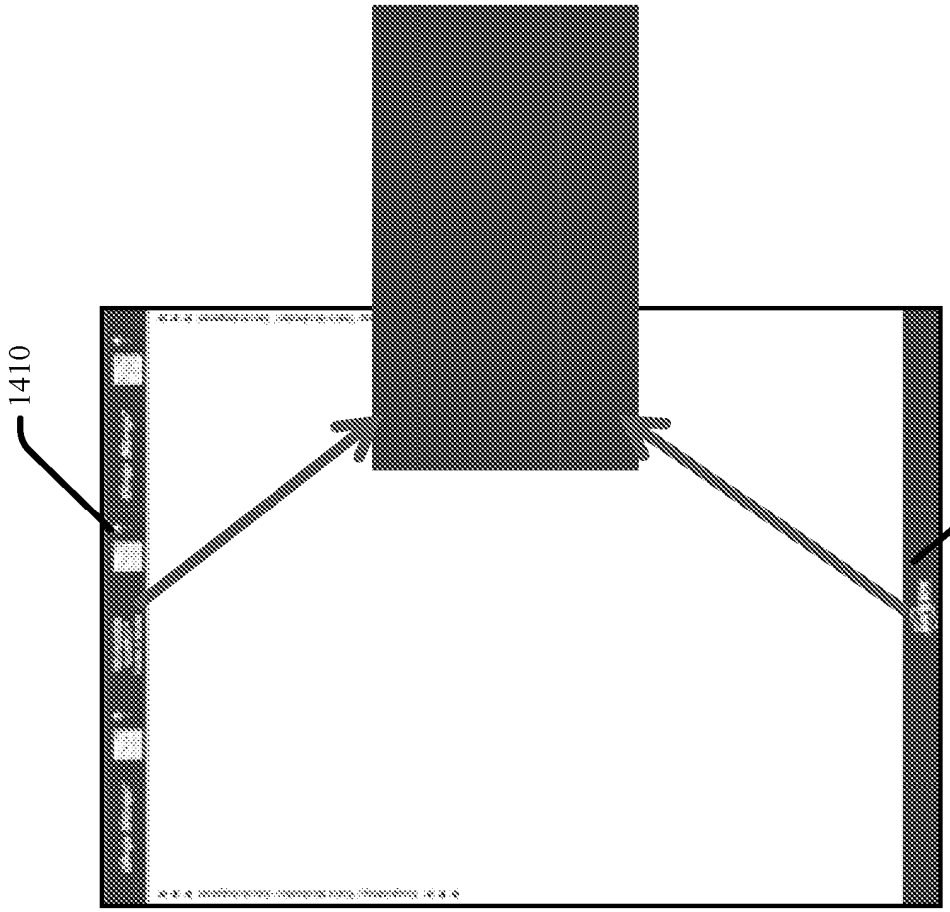

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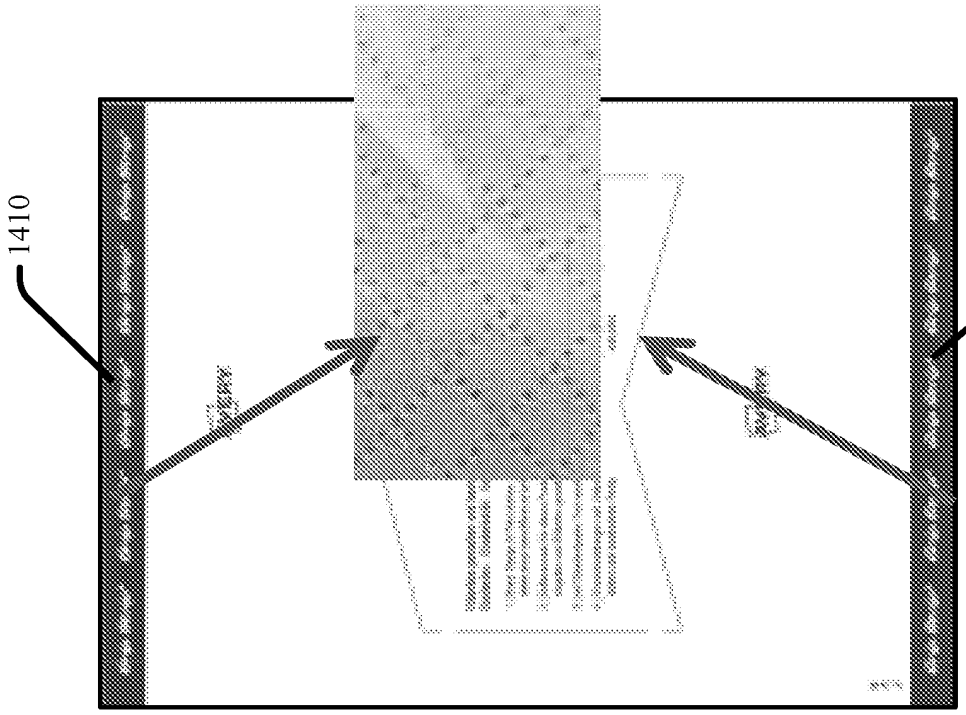

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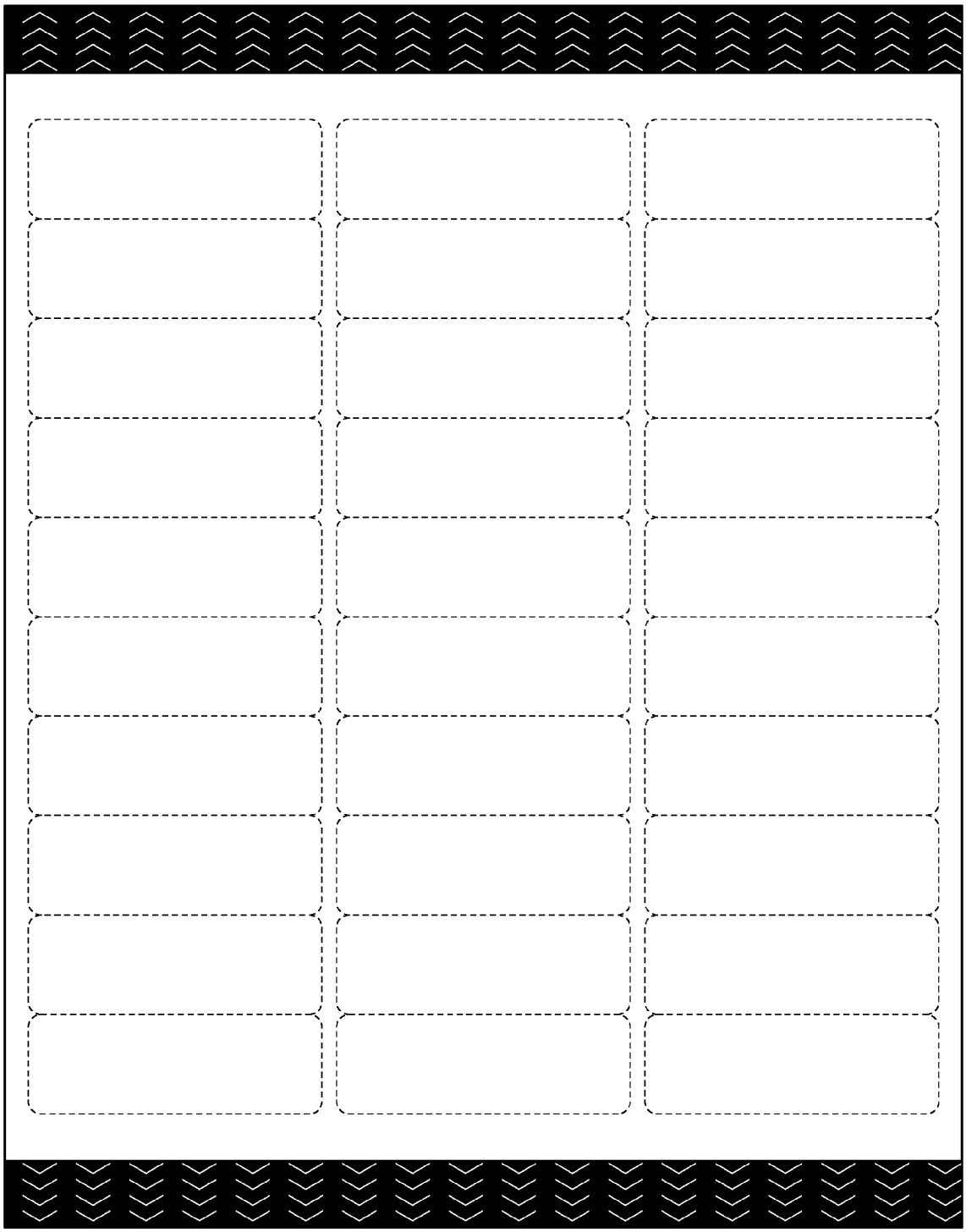

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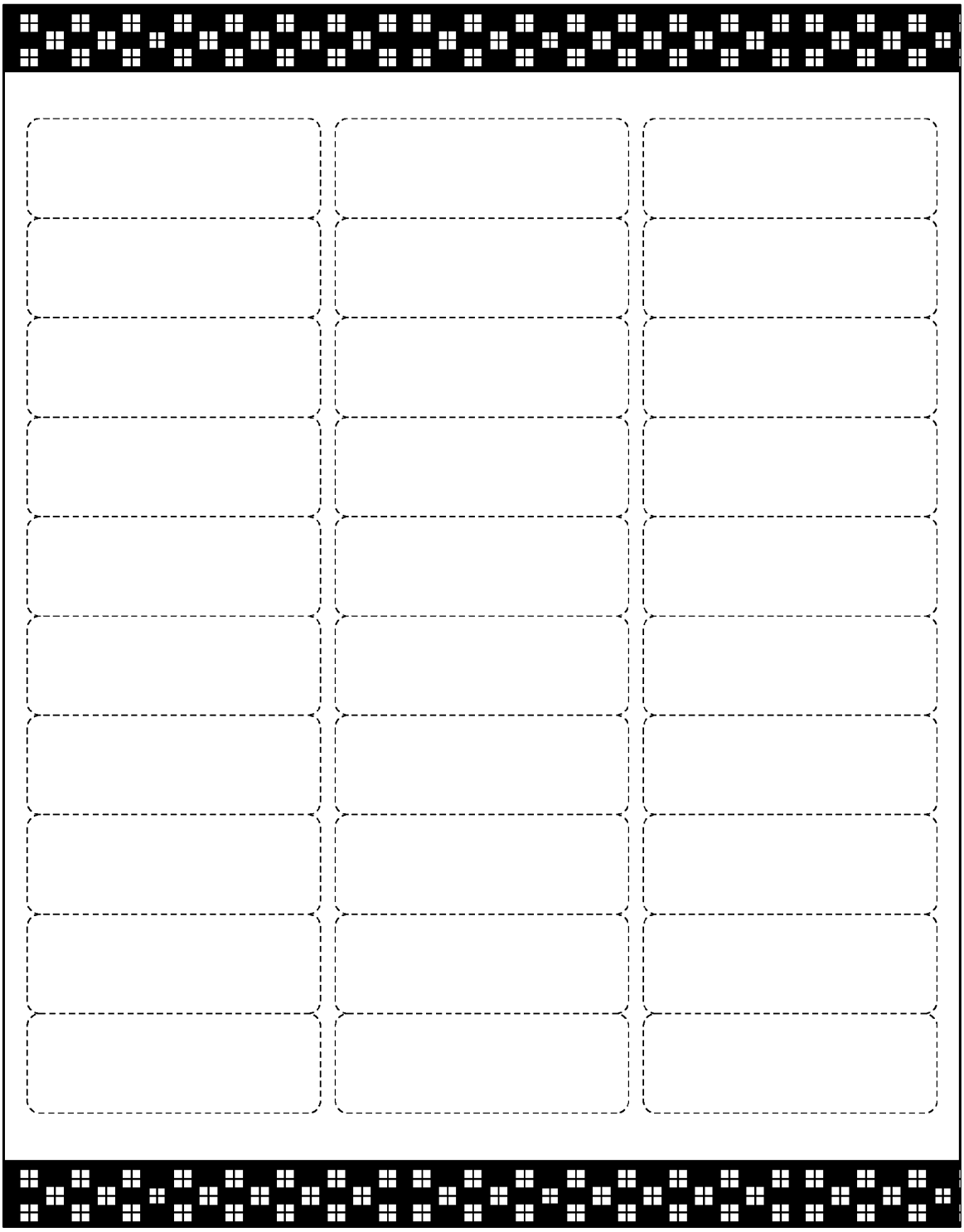
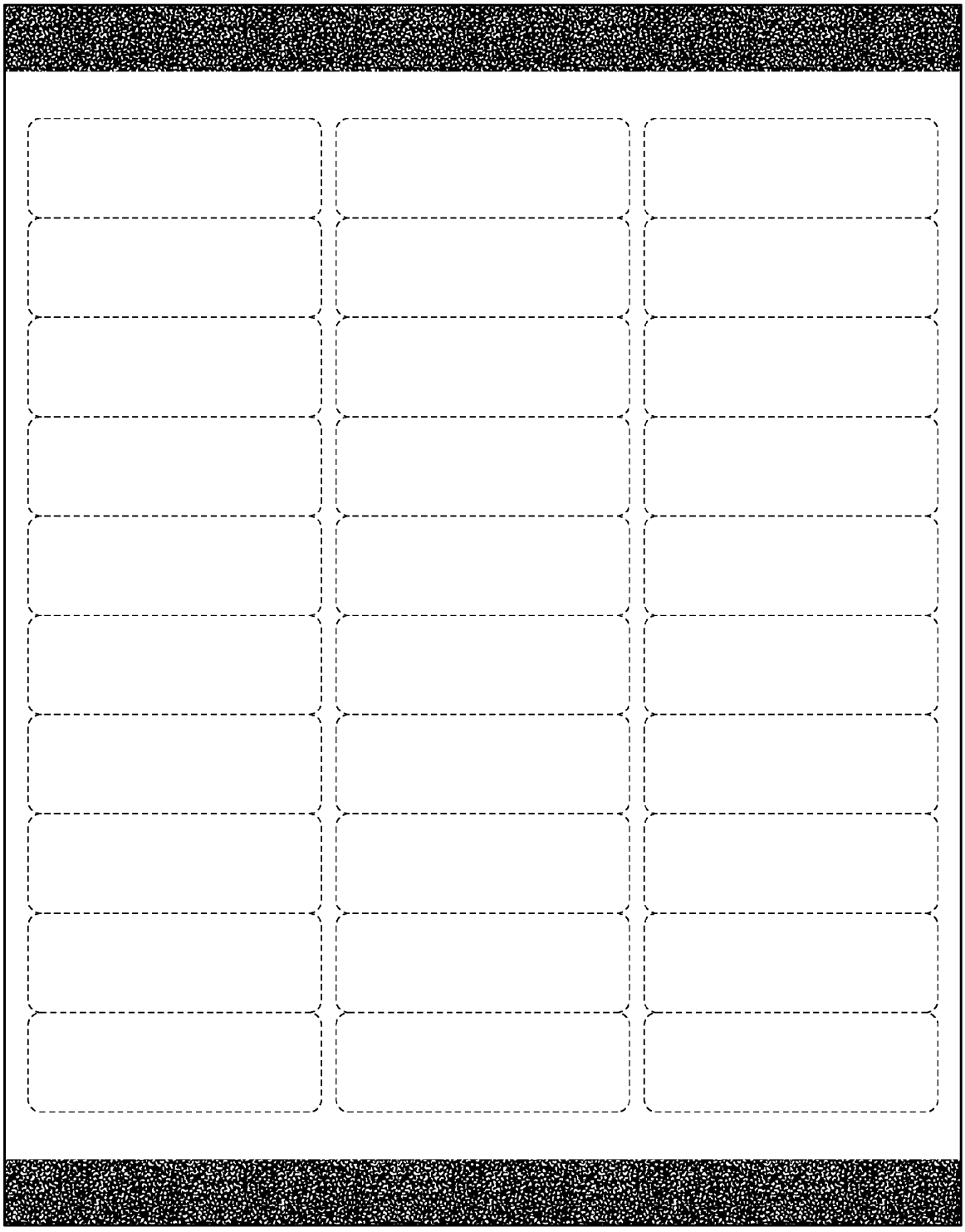


FIG. 22



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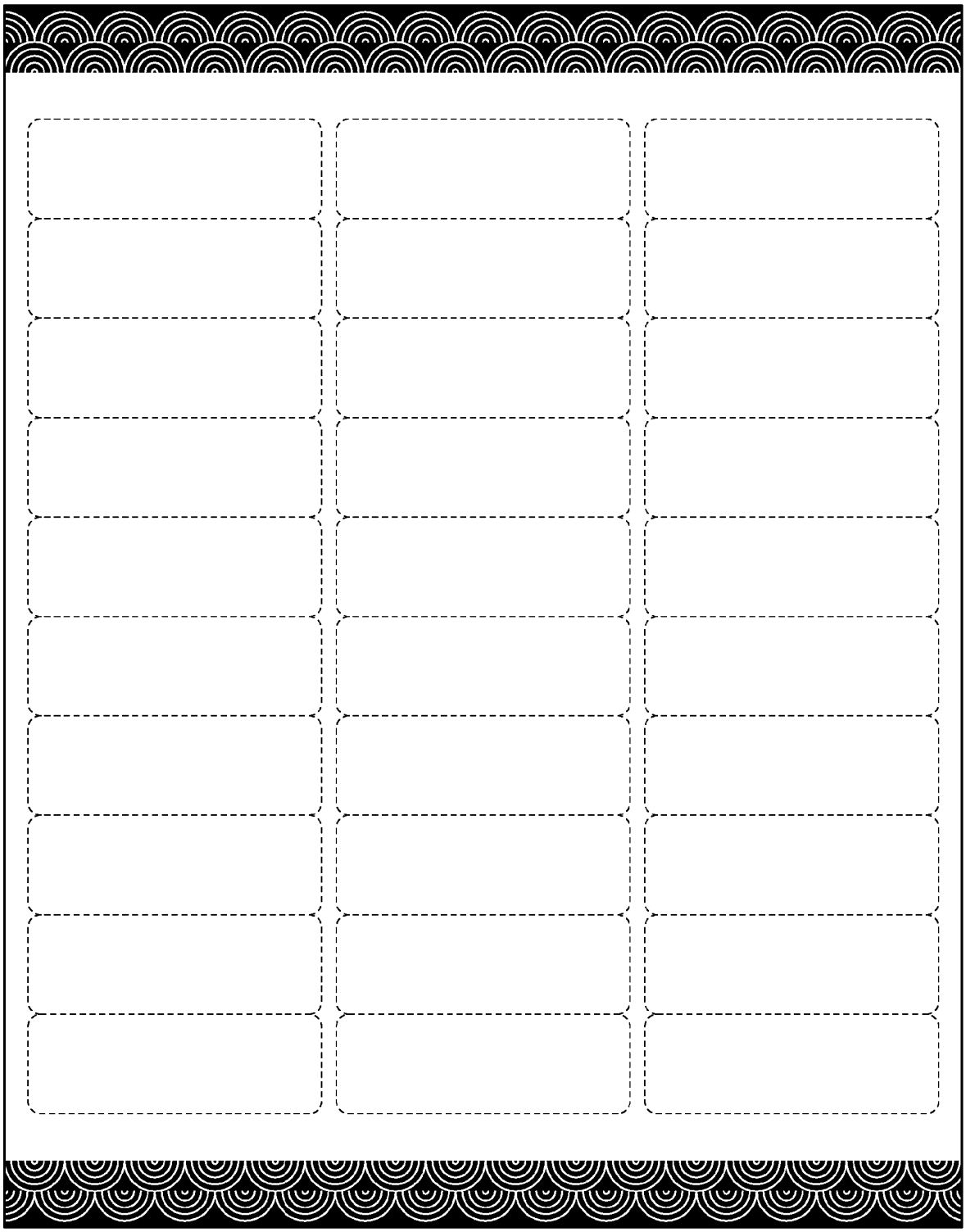
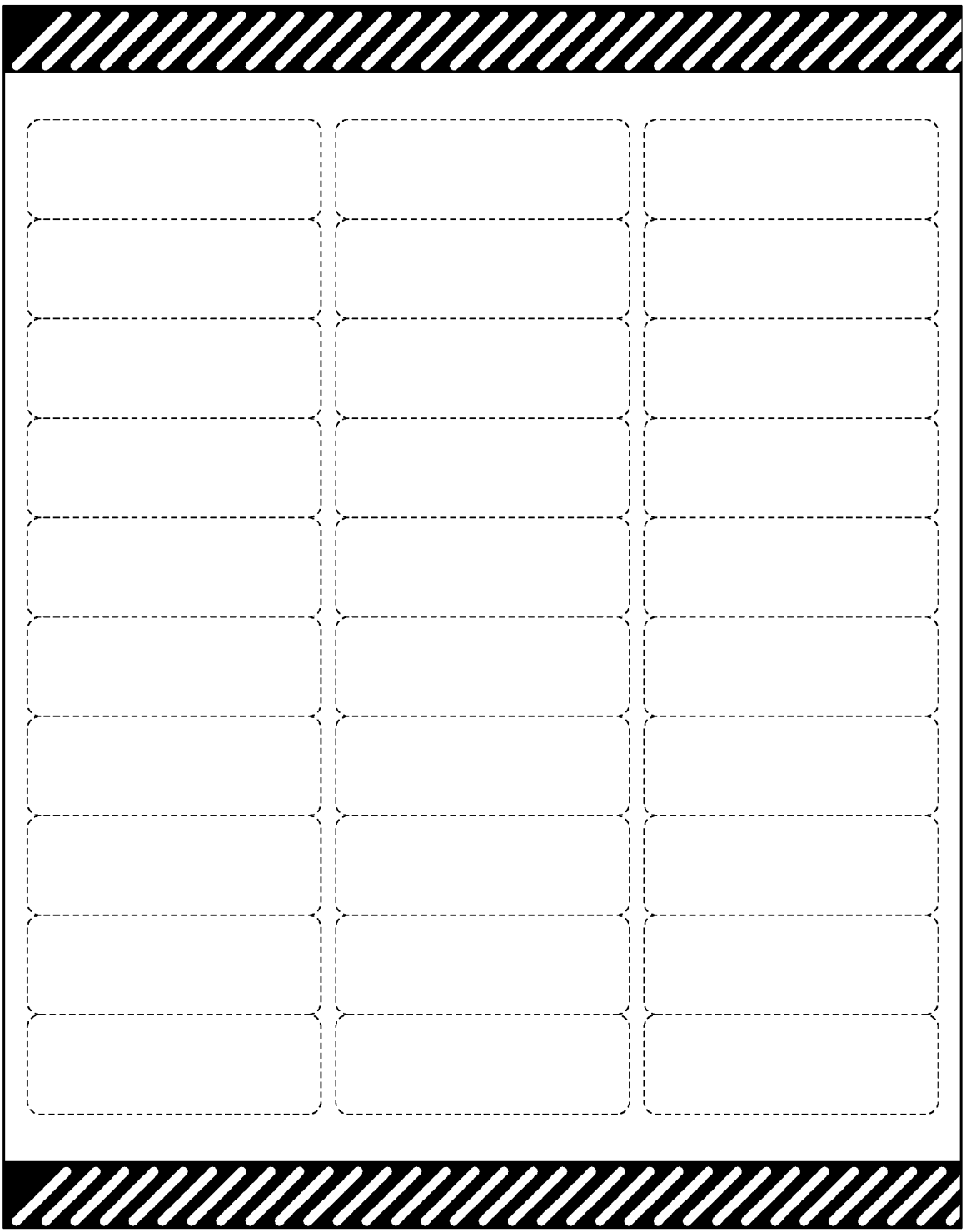


FIG. 24



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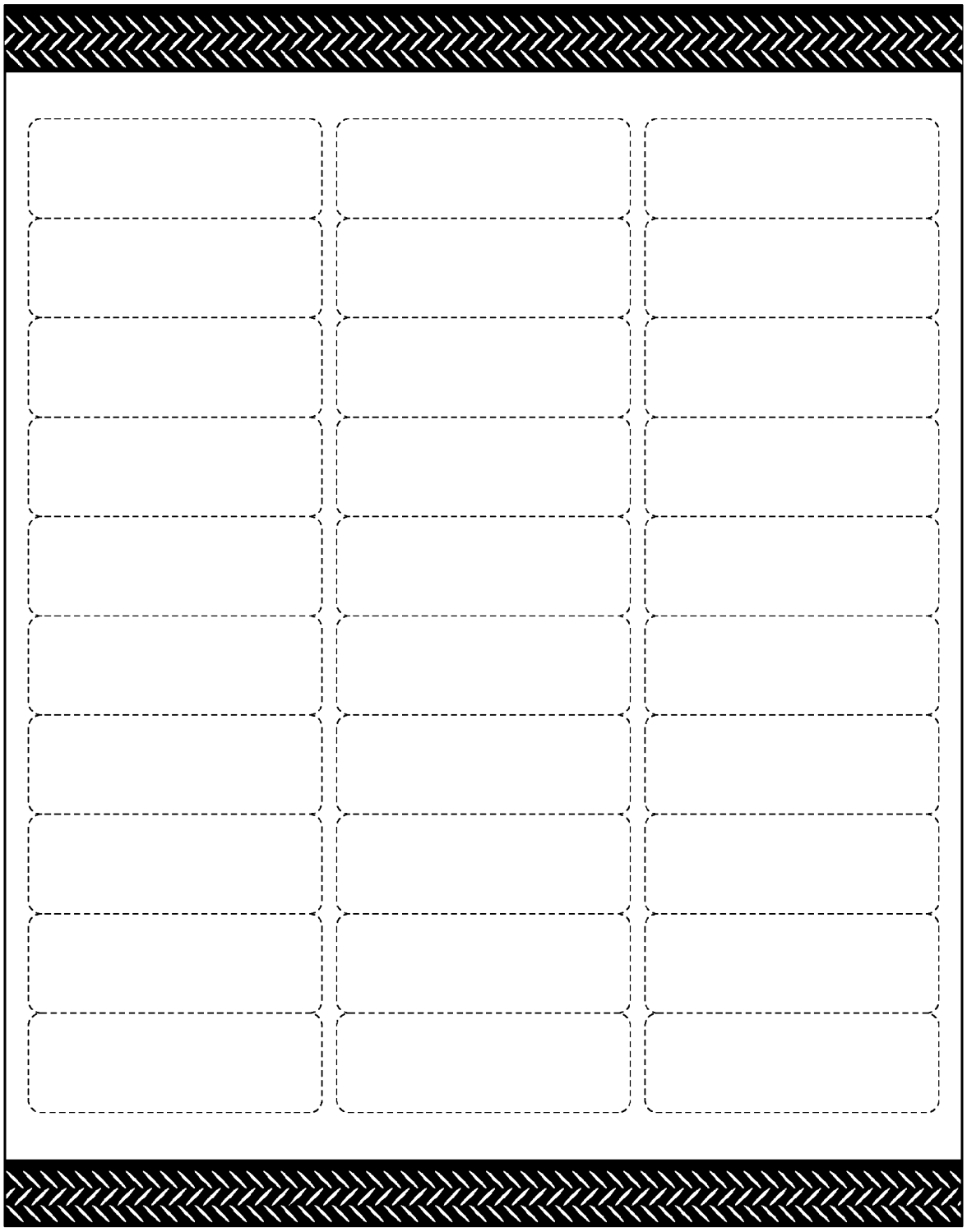


FIG. 26

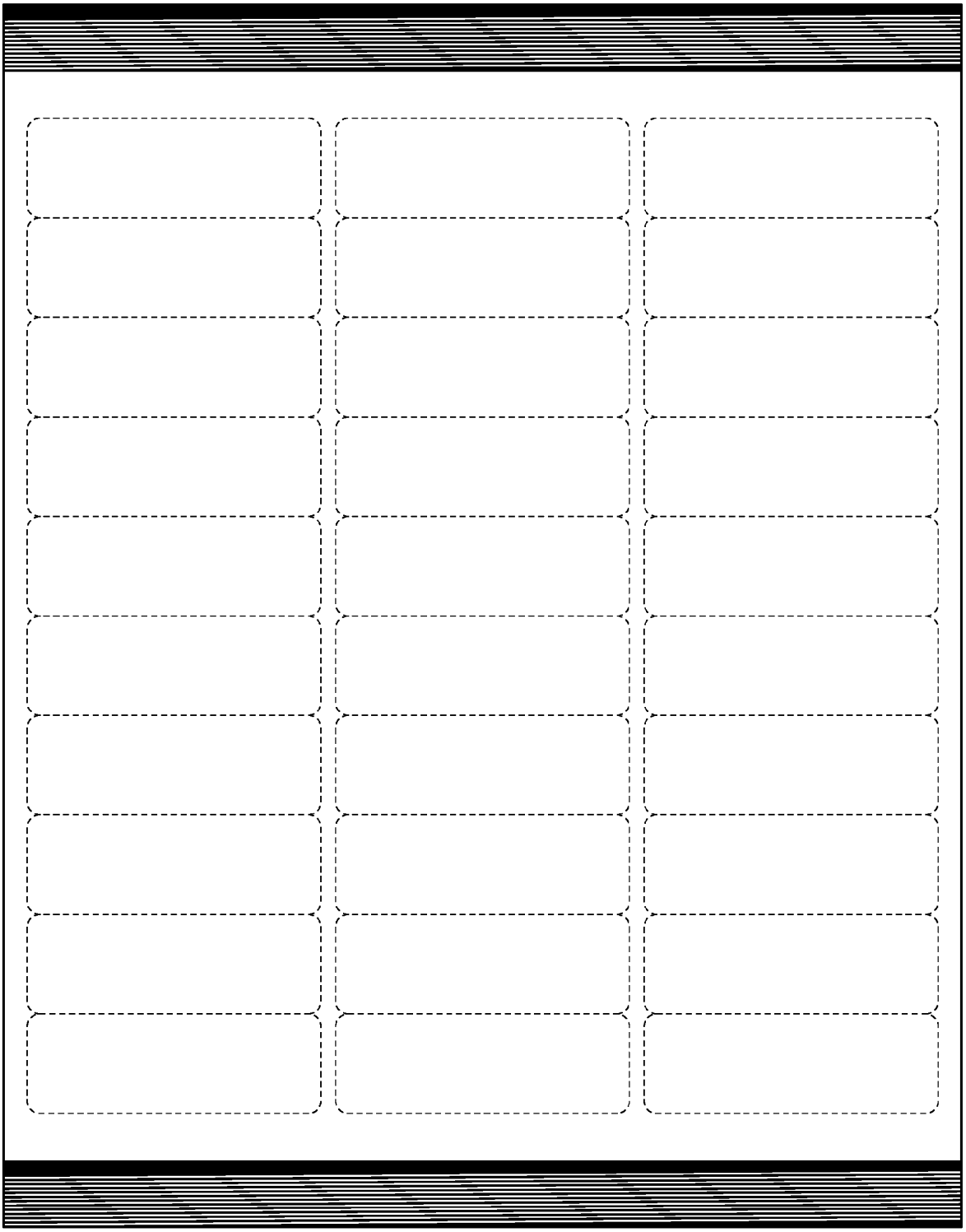
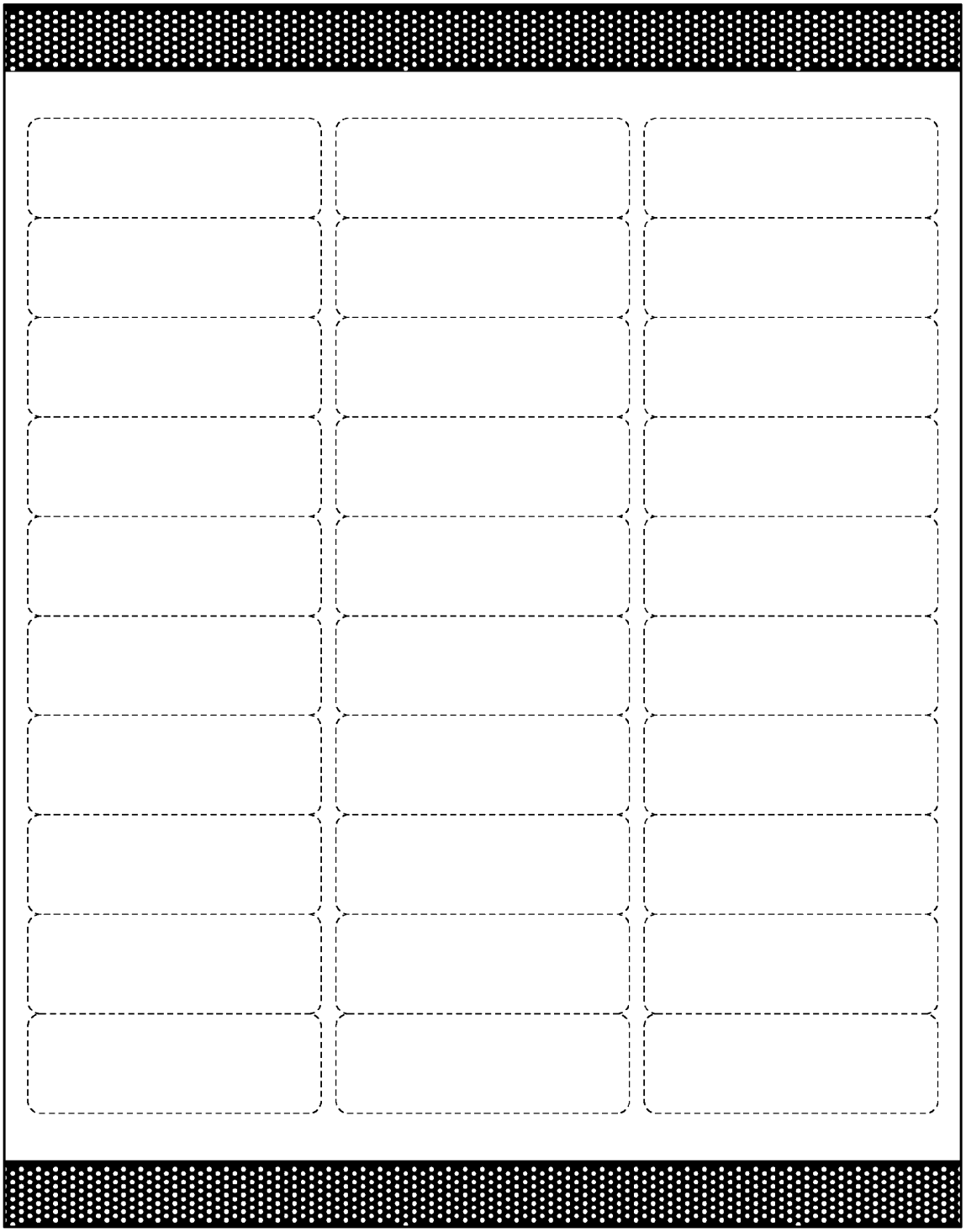


FIG. 27



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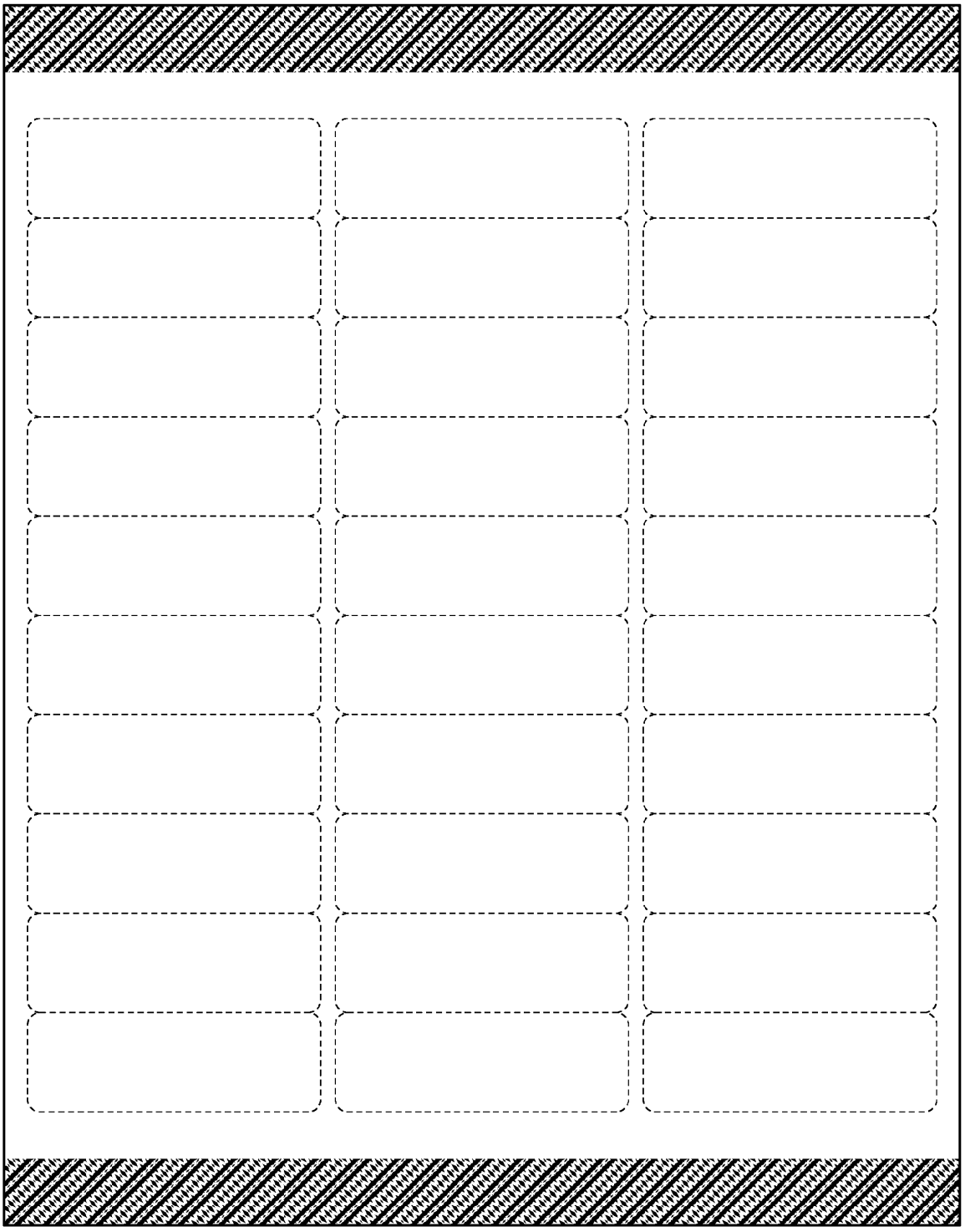
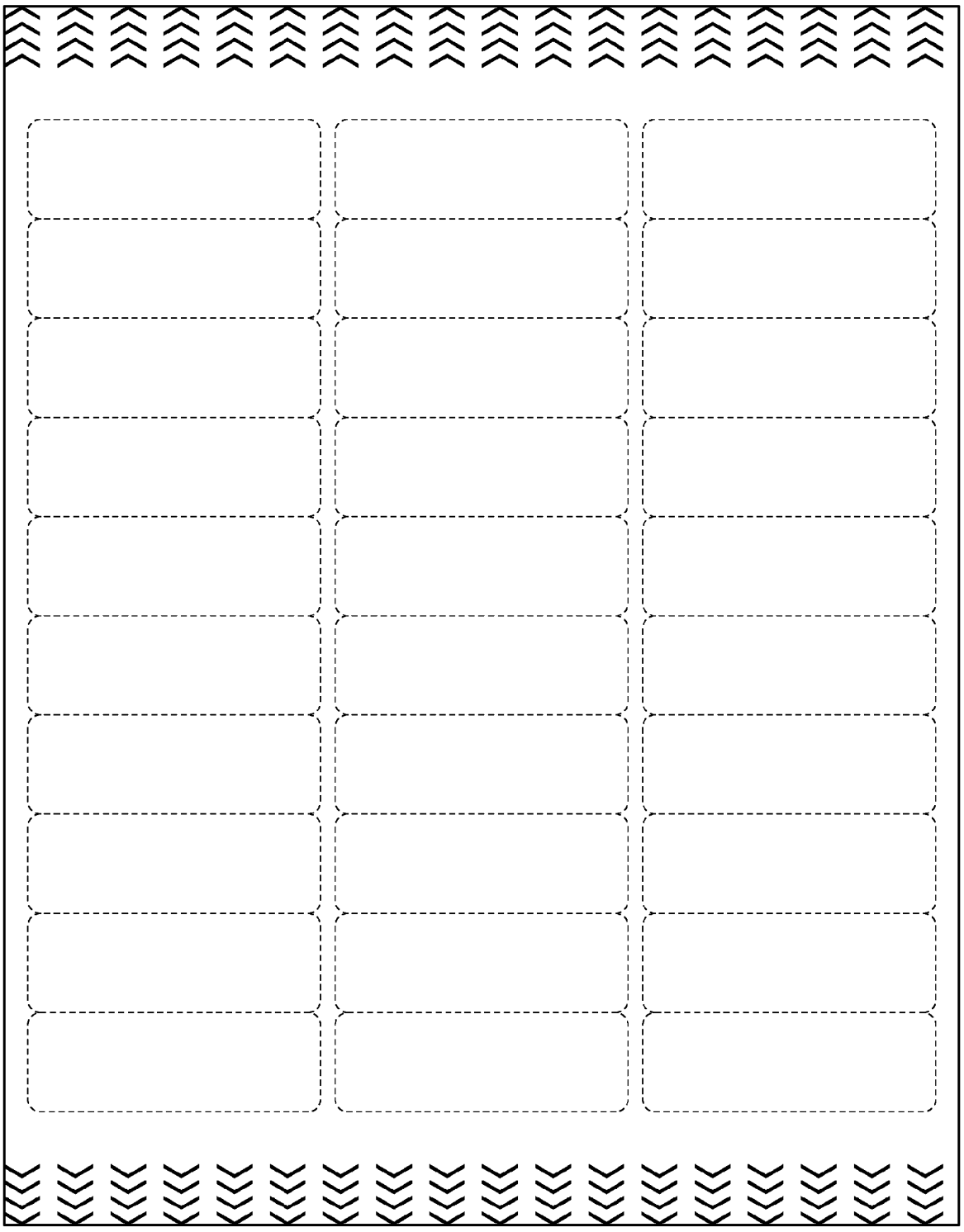


FIG. 29



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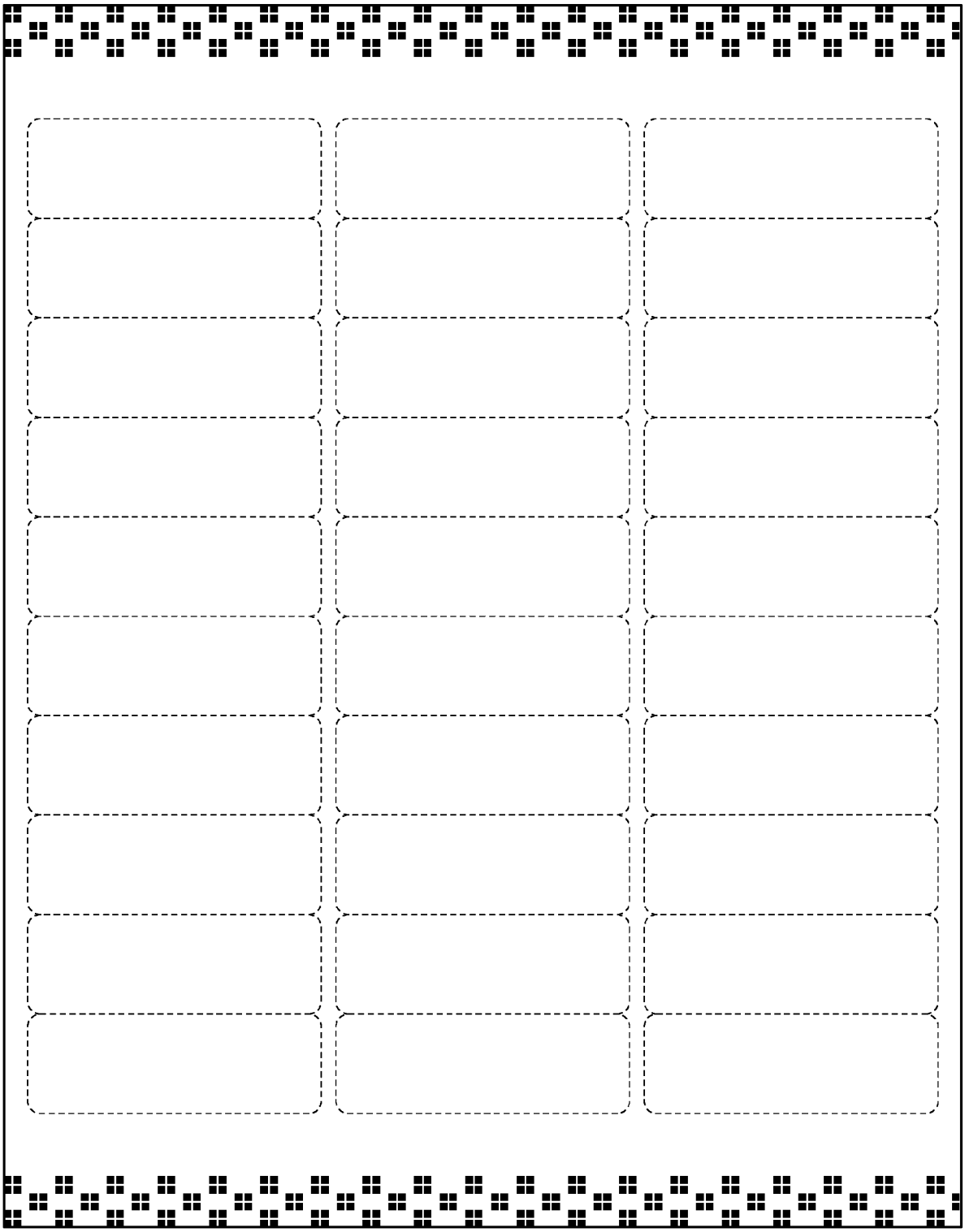


FIG. 31

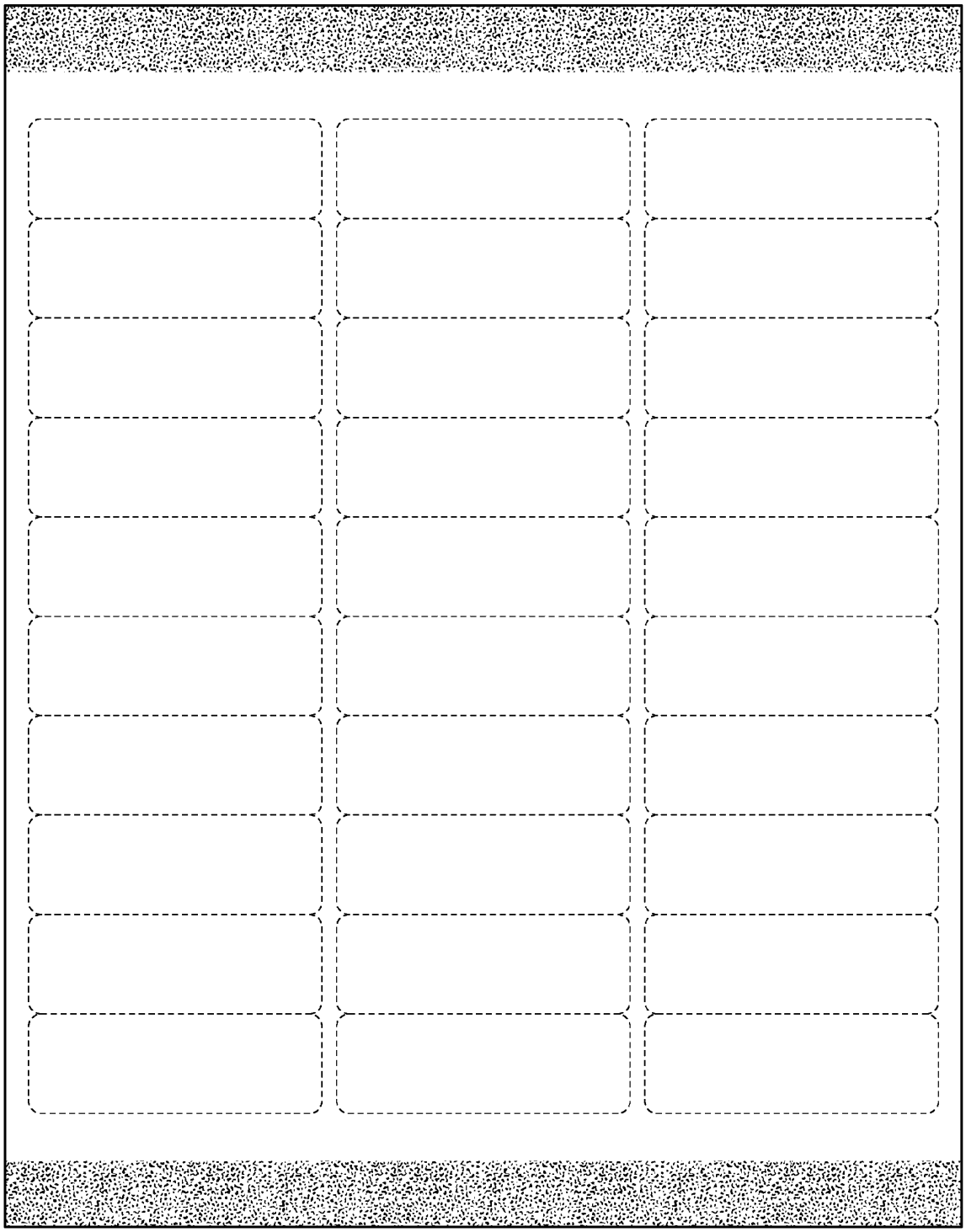


FIG. 32

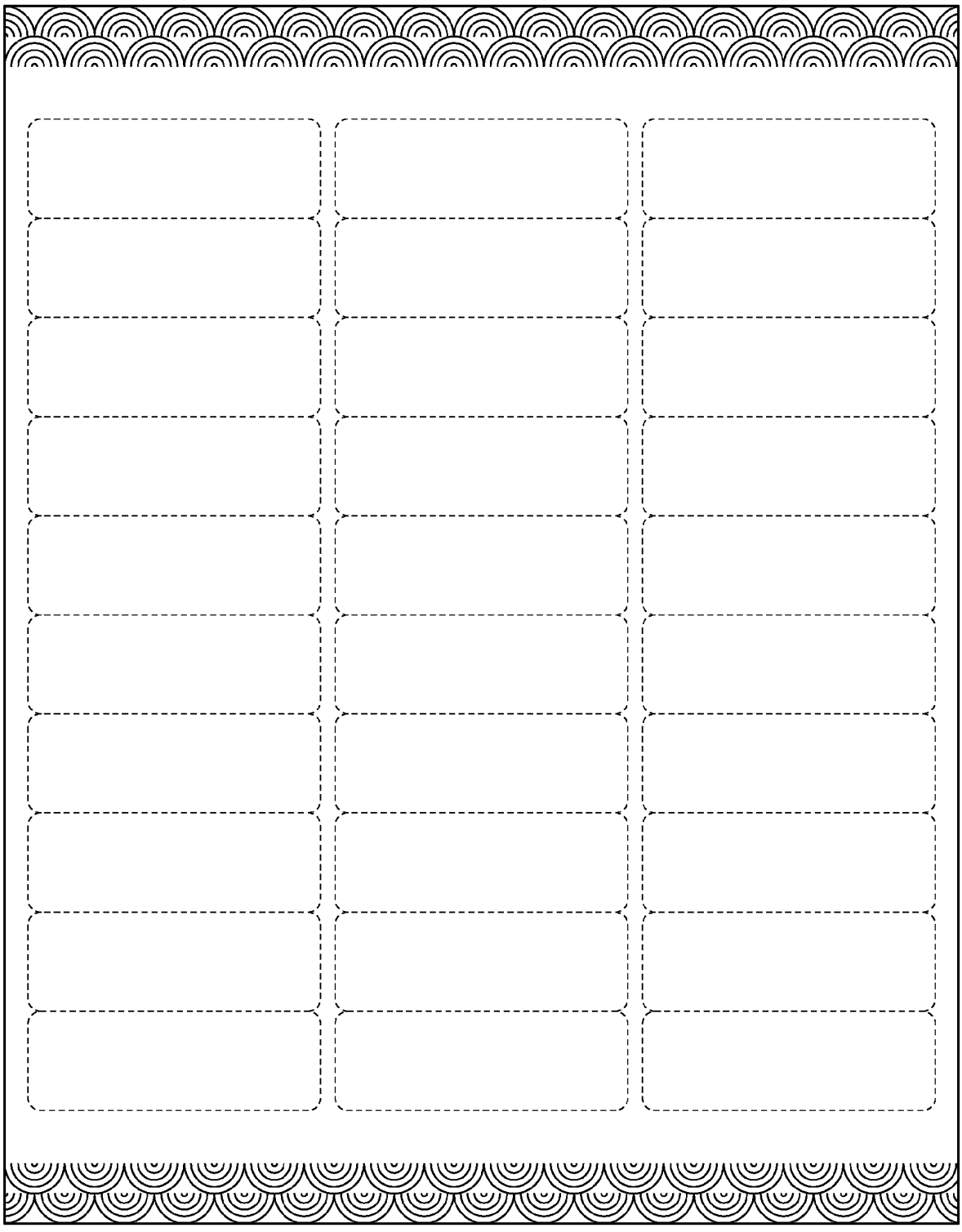


FIG. 33

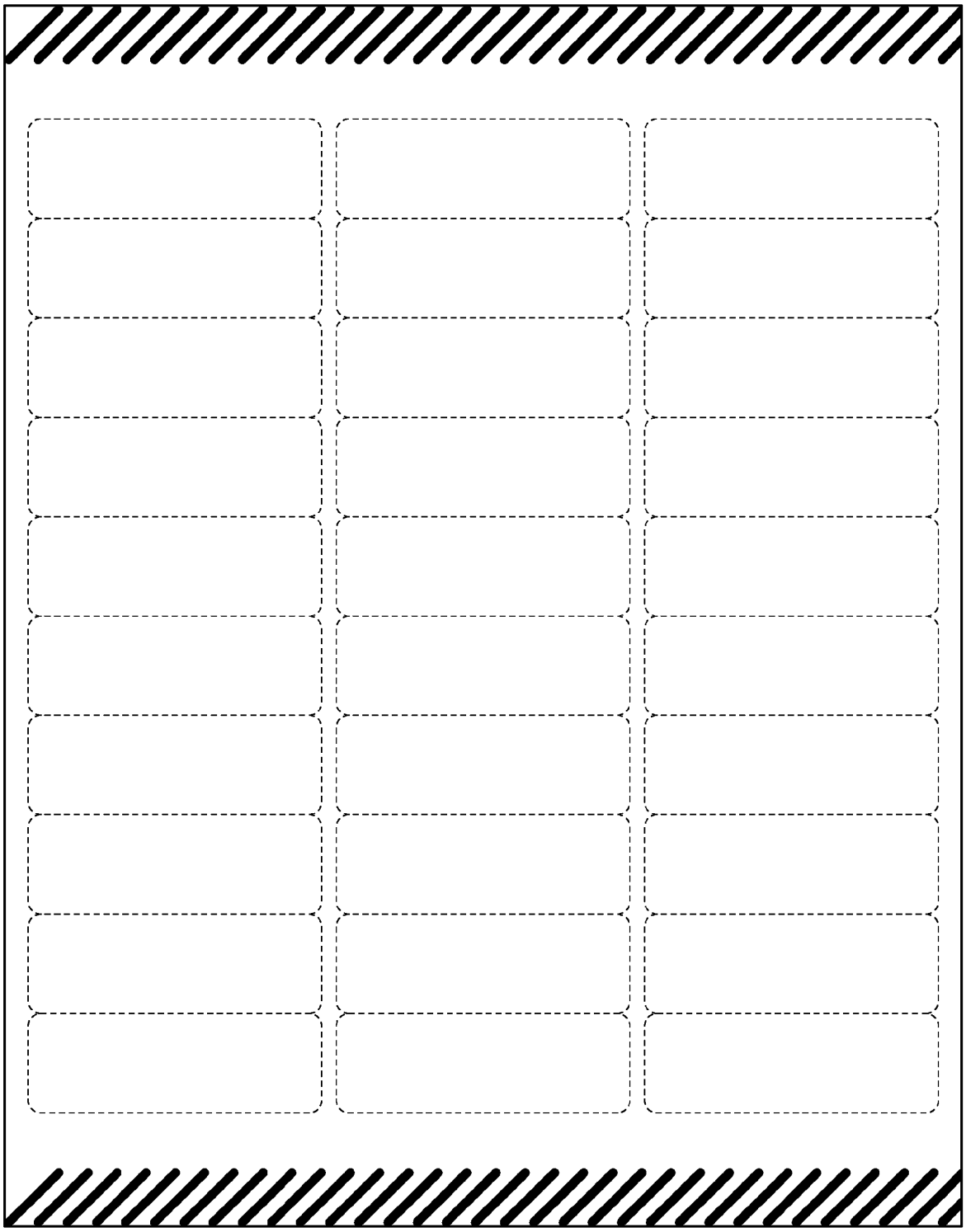


FIG. 34

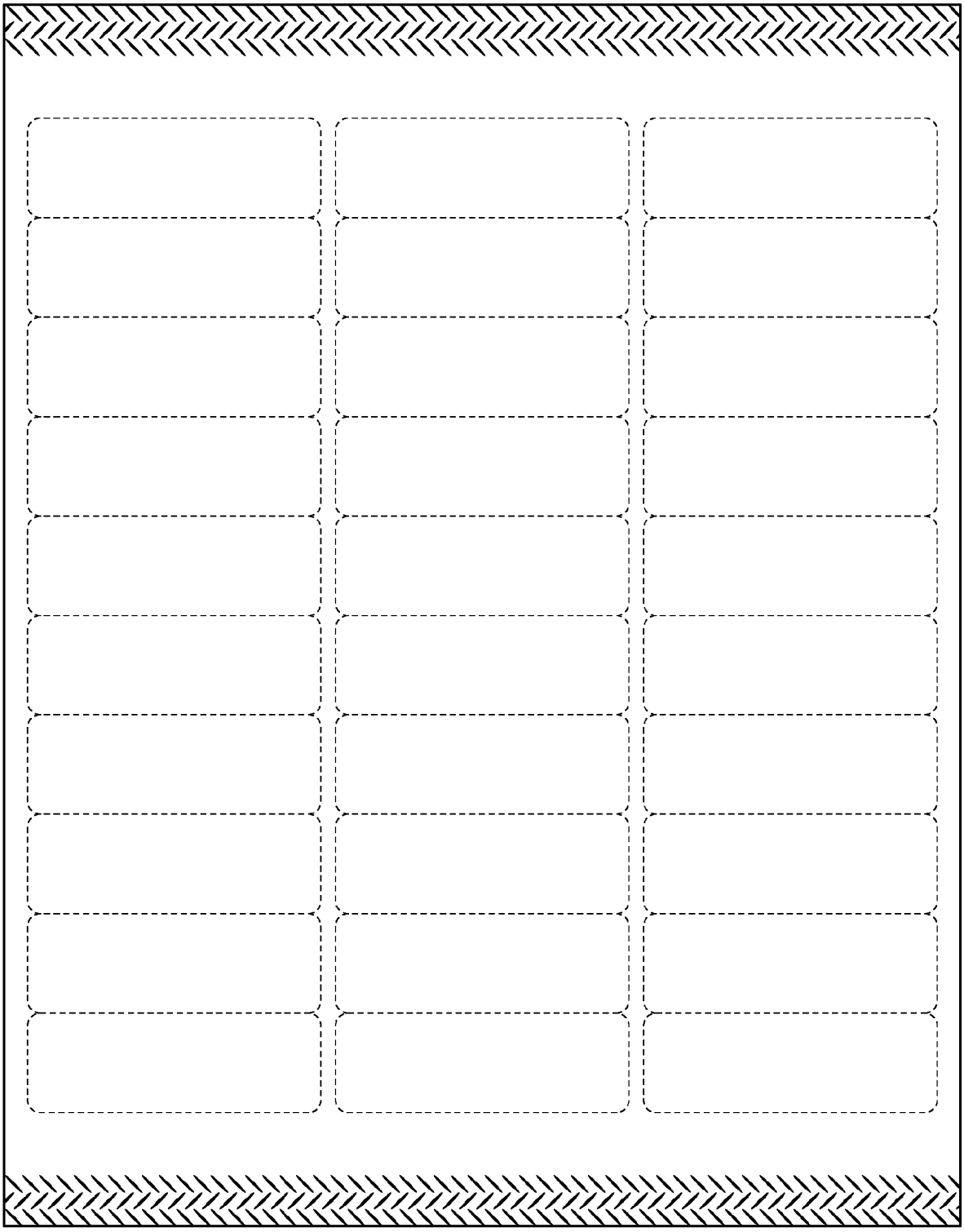


FIG. 35

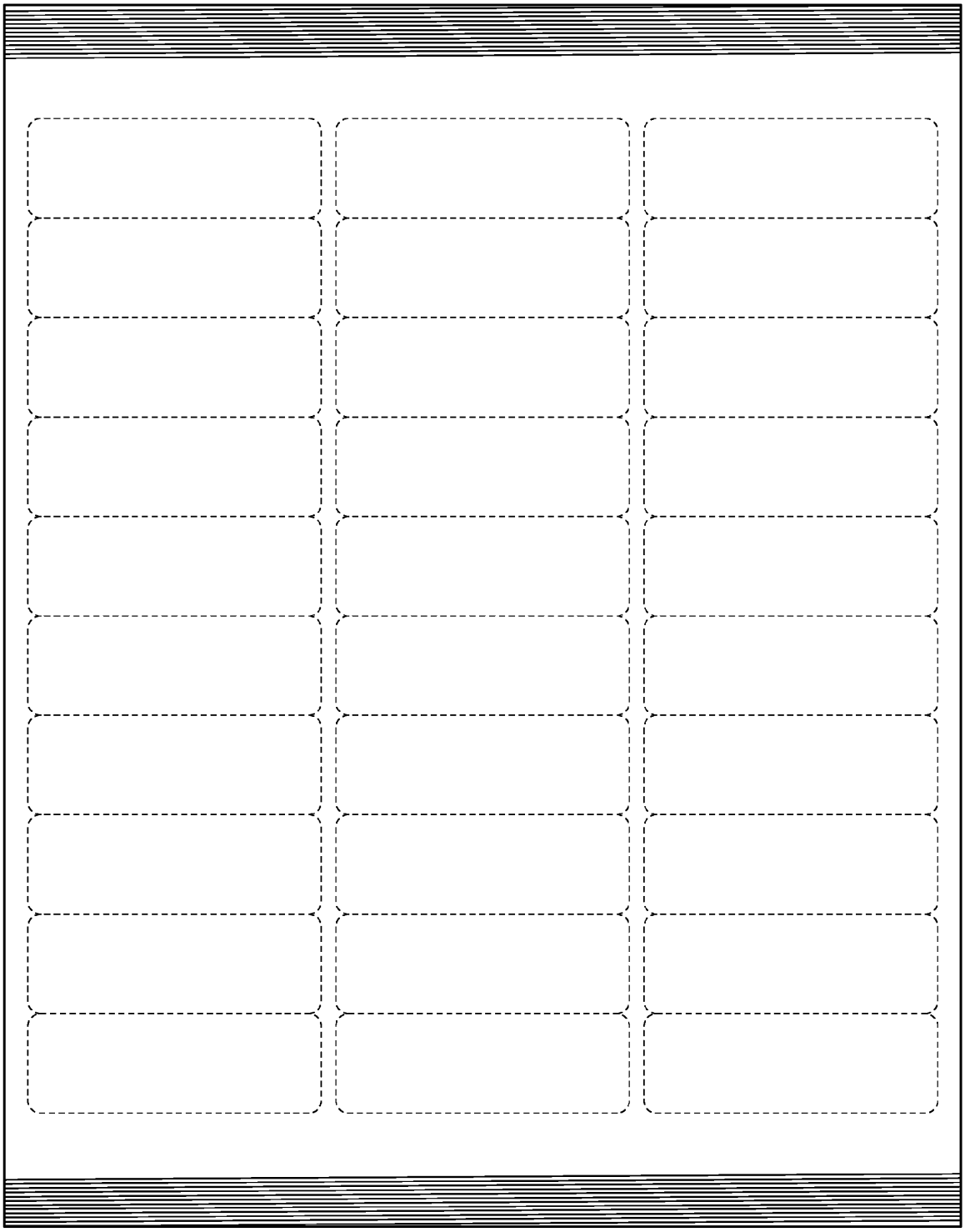
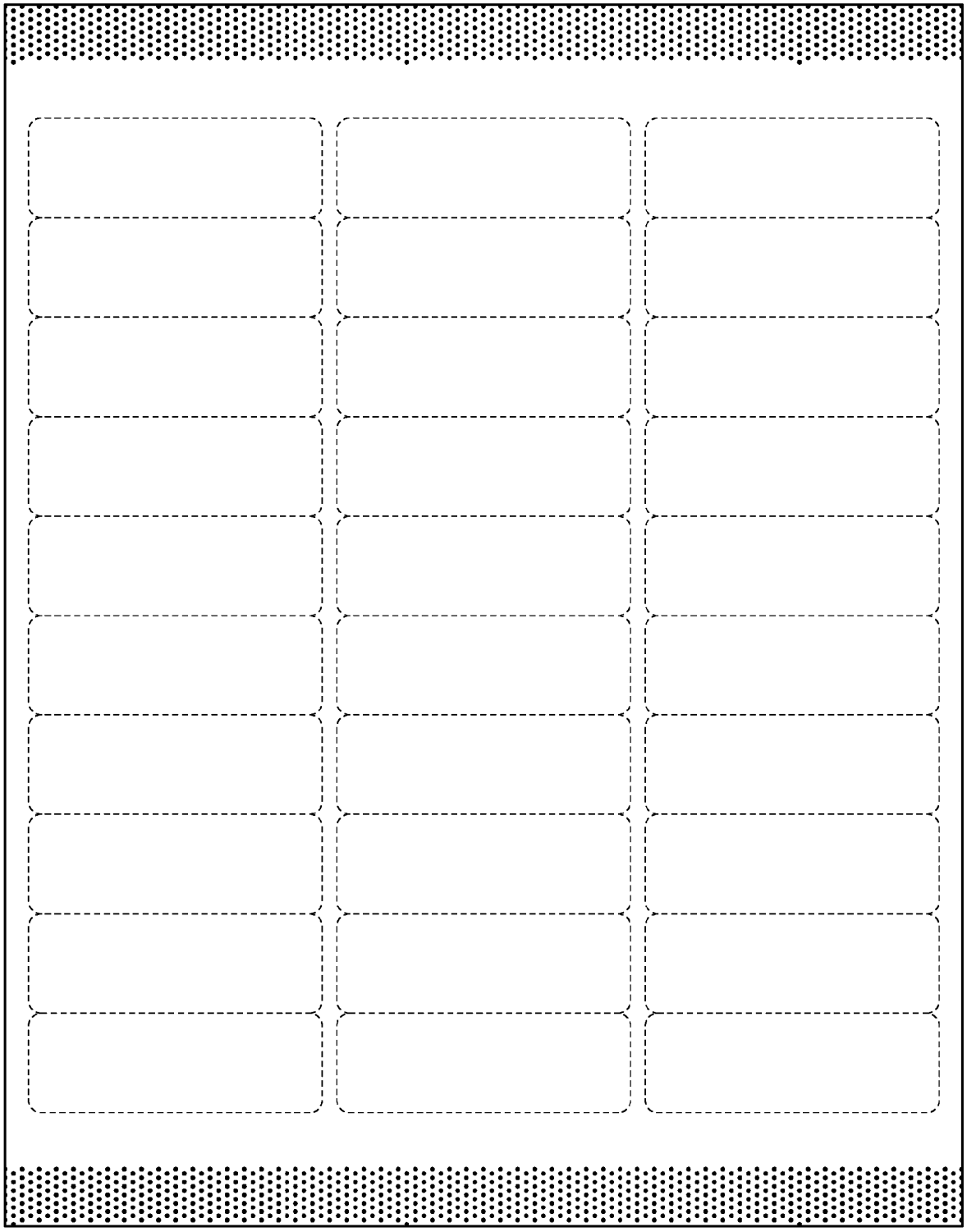


FIG. 36



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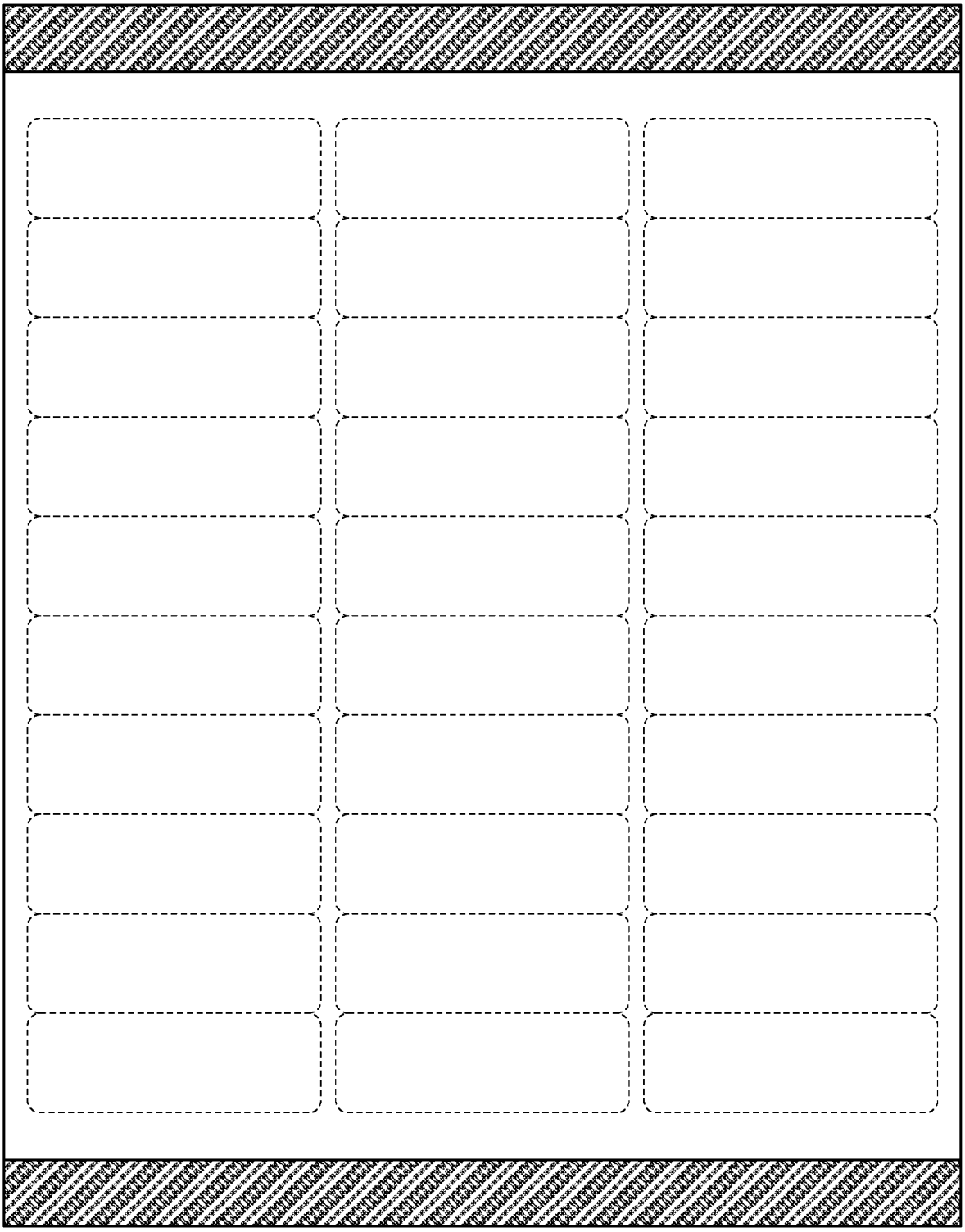
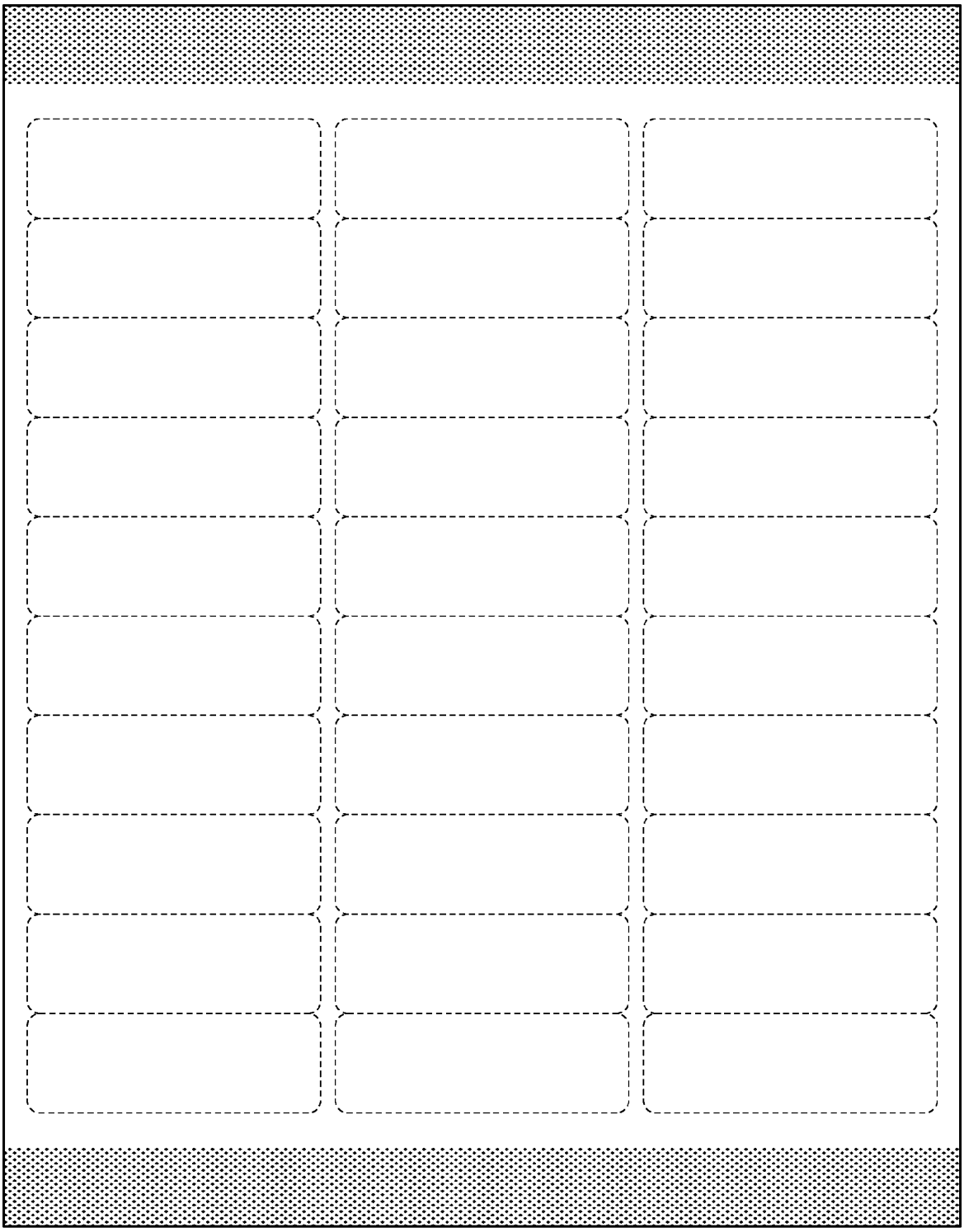


FIG. 38



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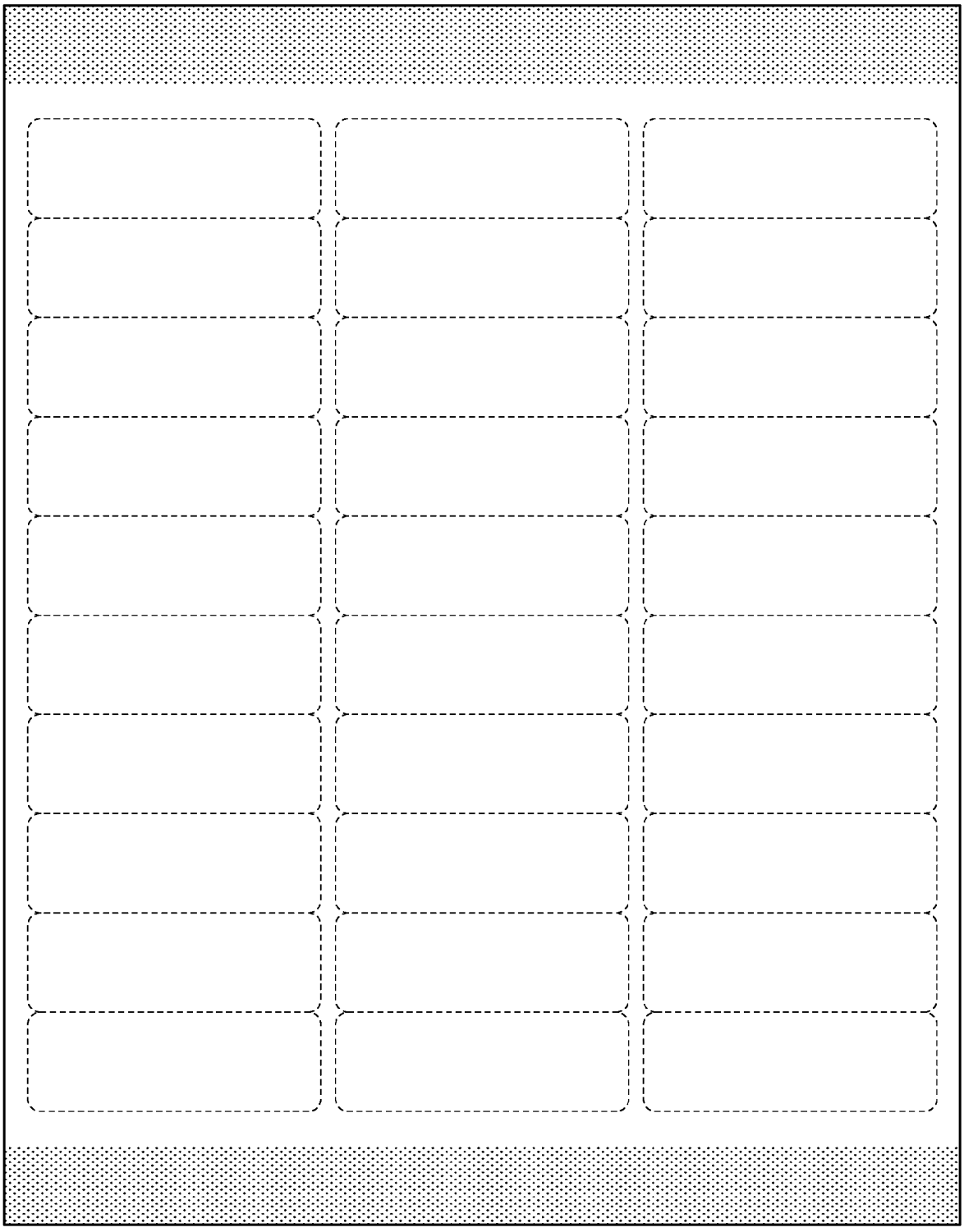
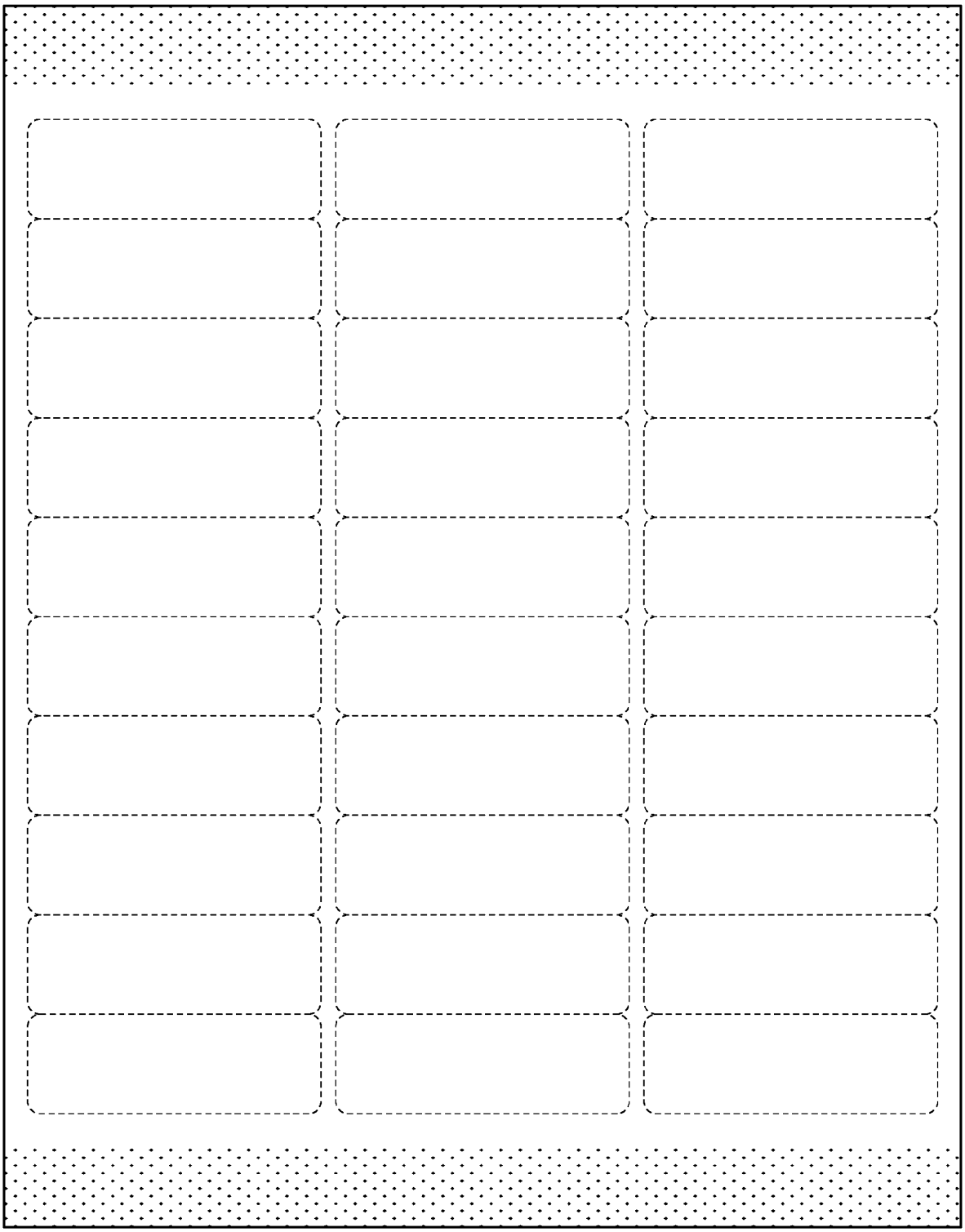


FIG. 40



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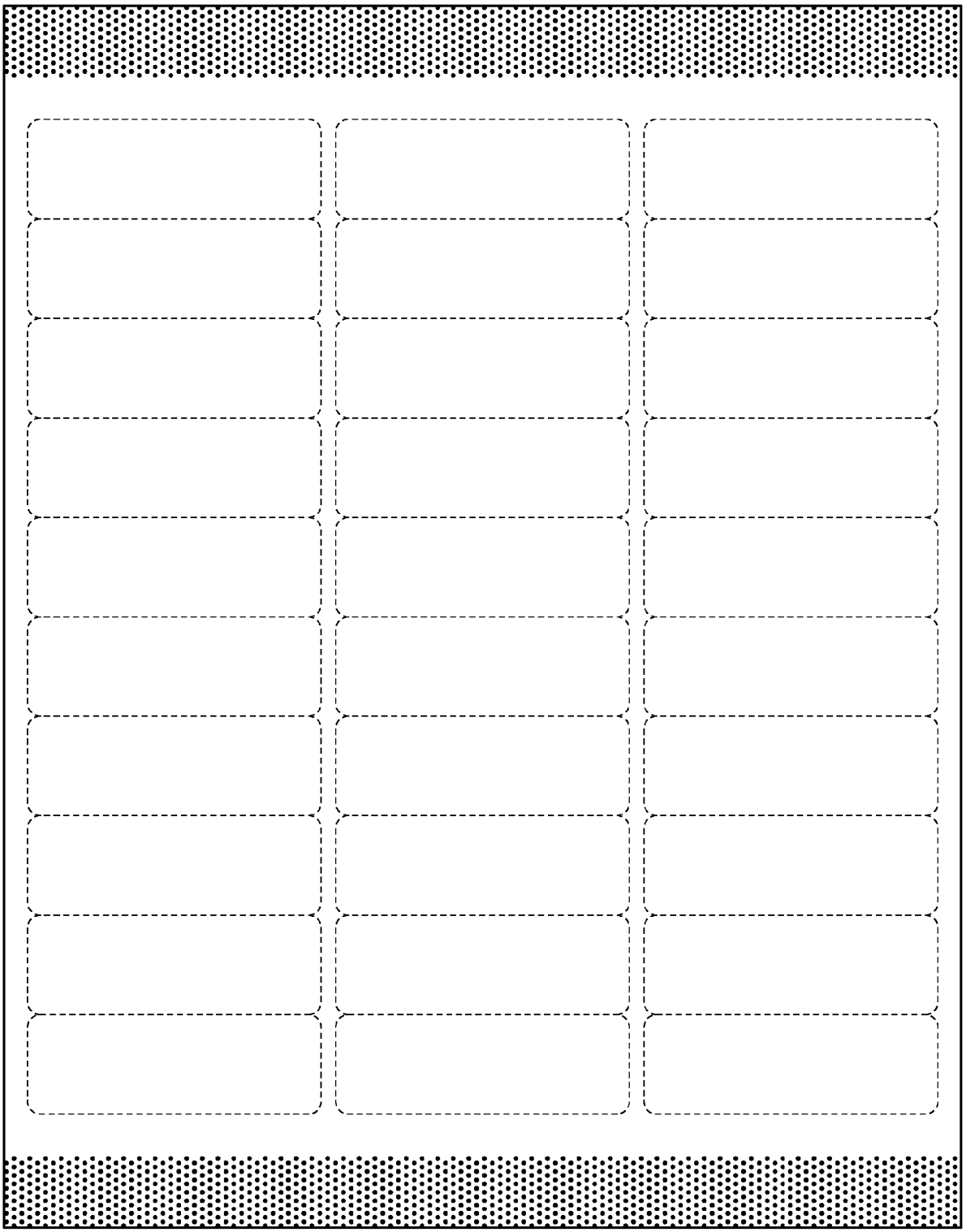

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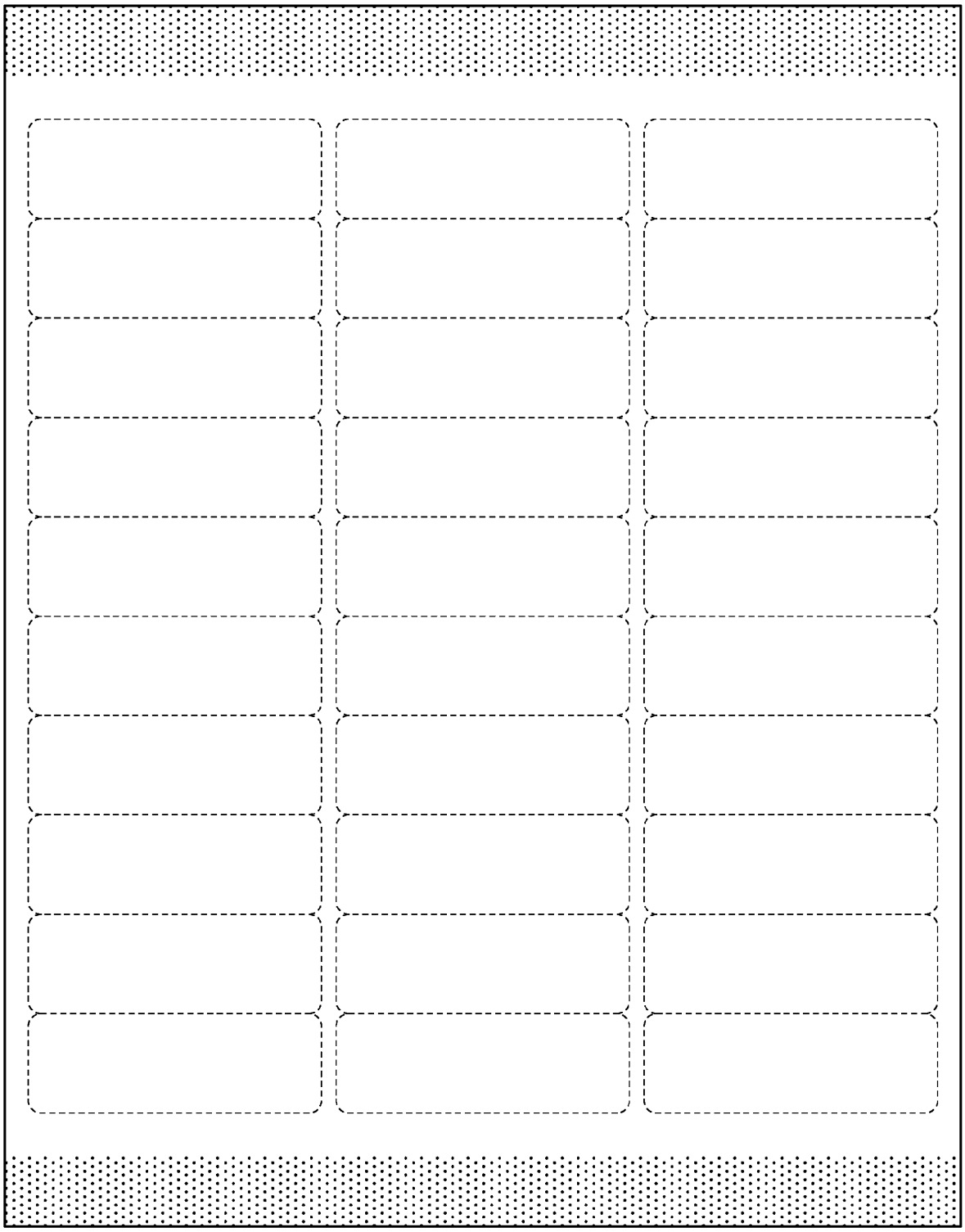

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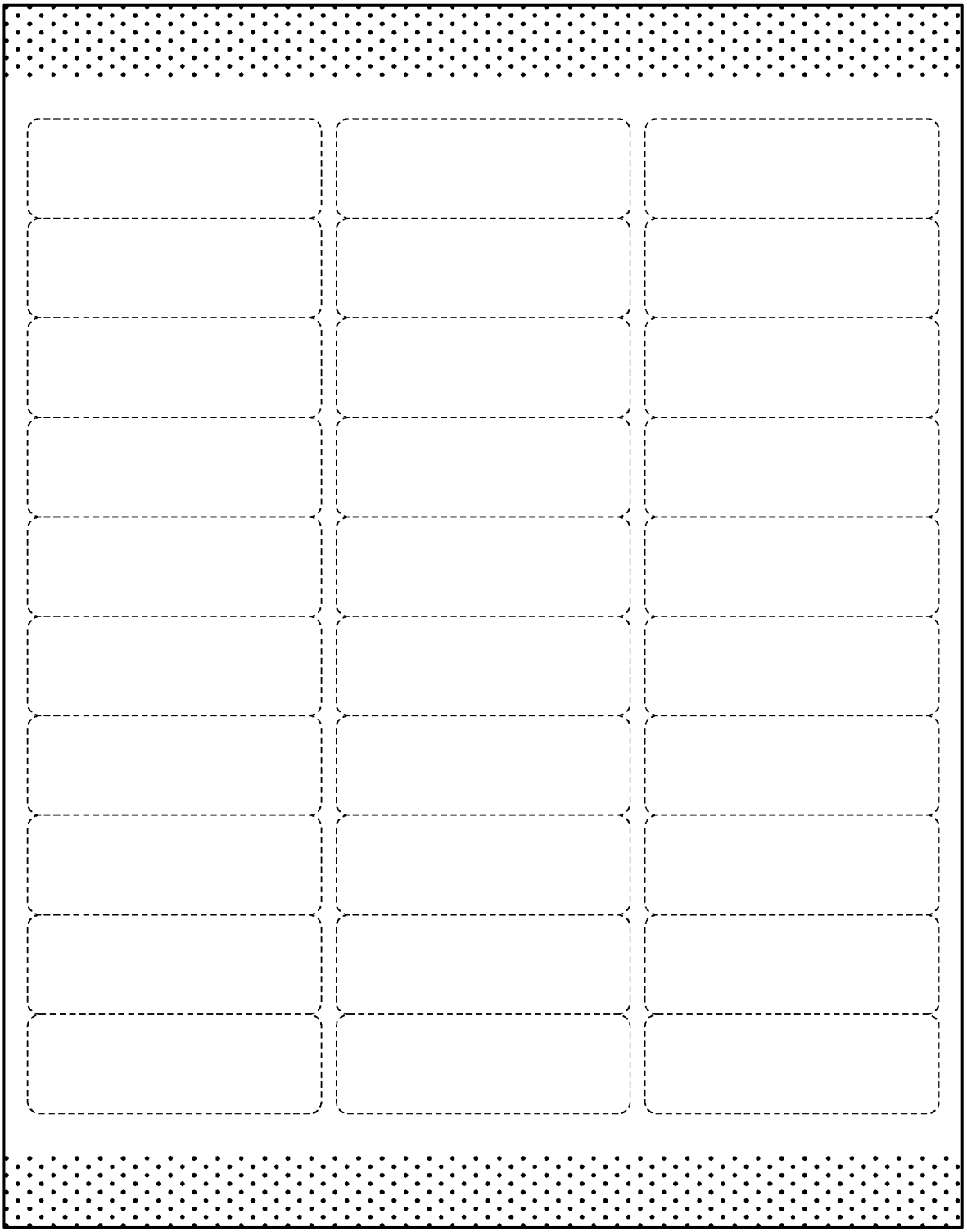
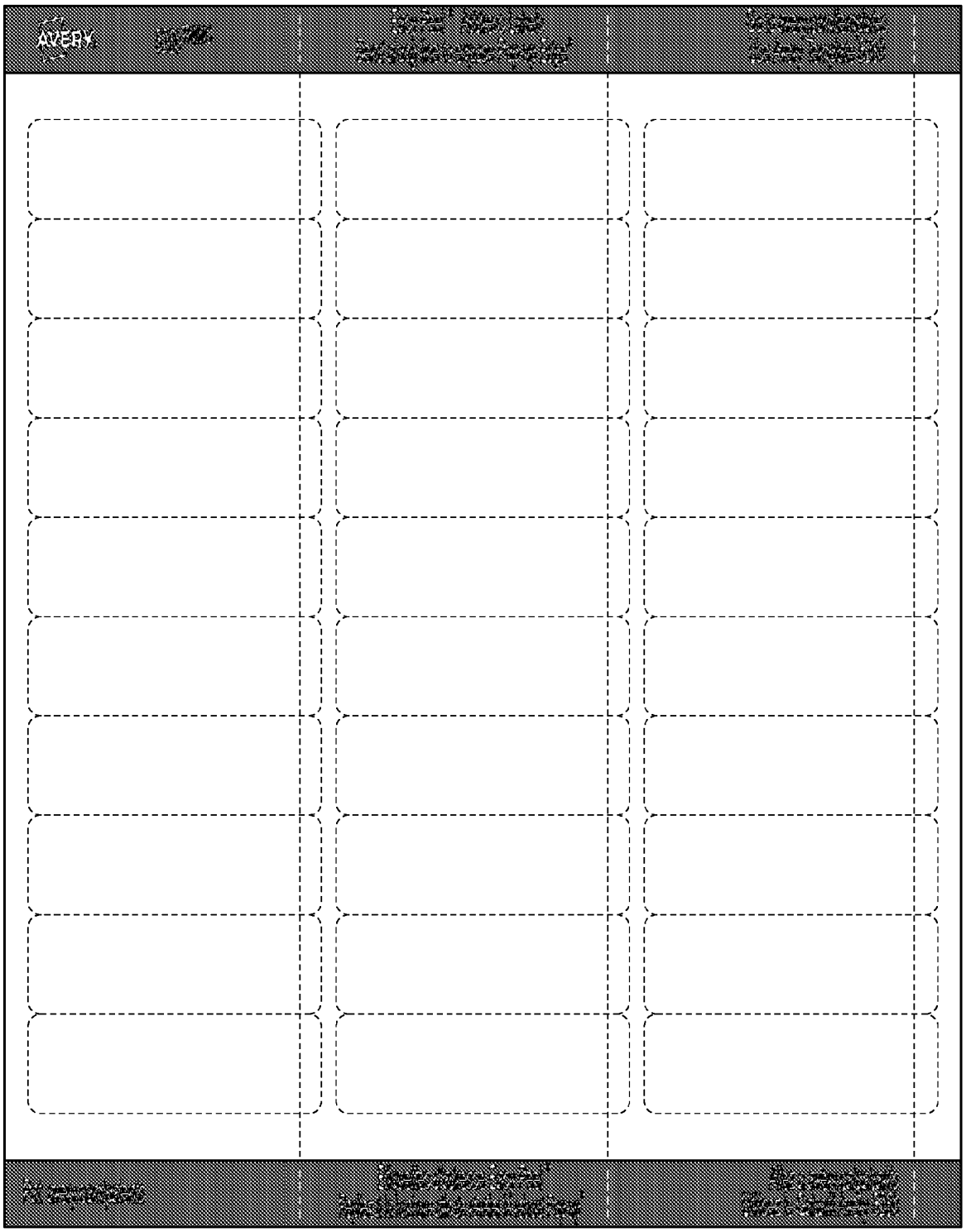


FIG. 44



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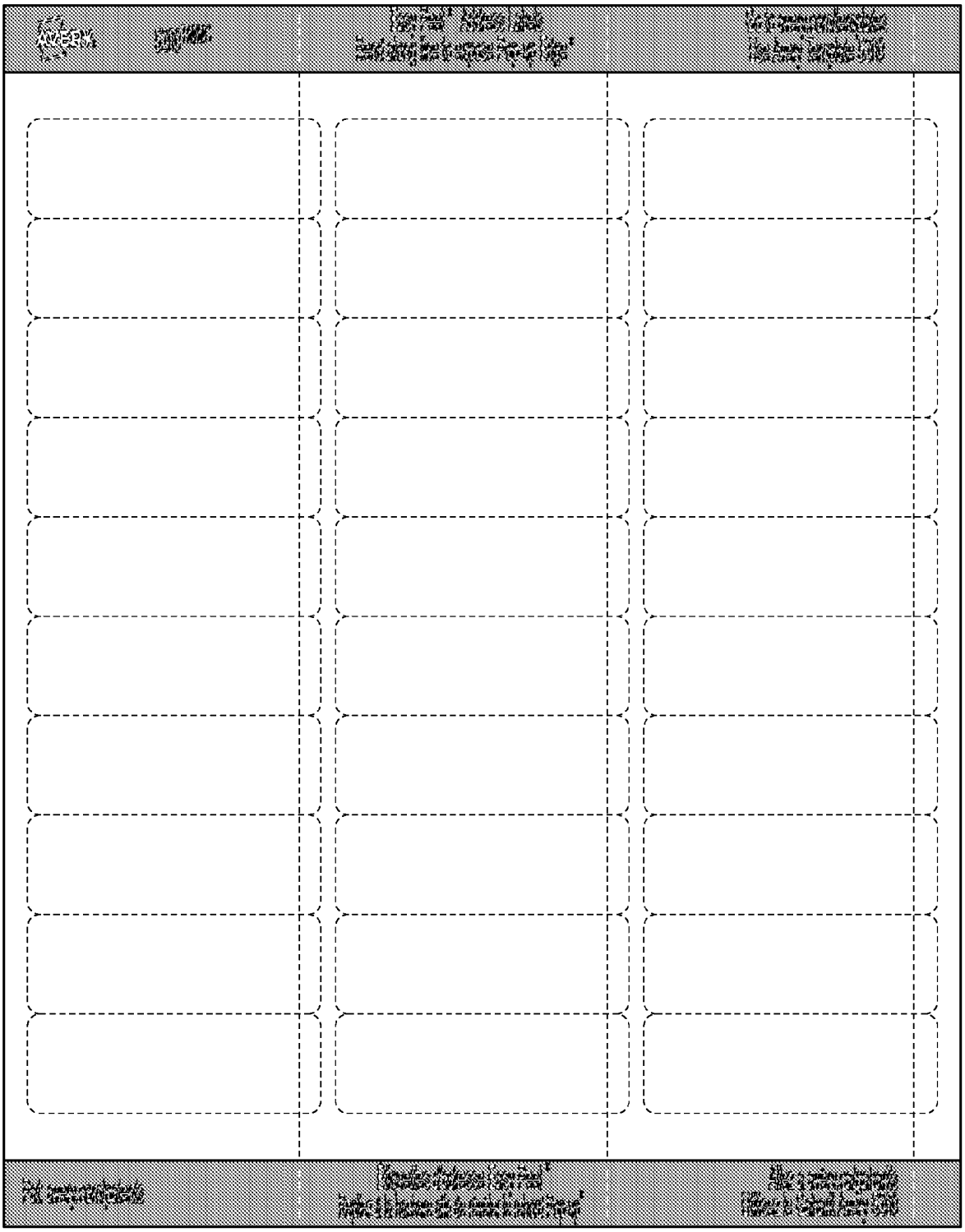
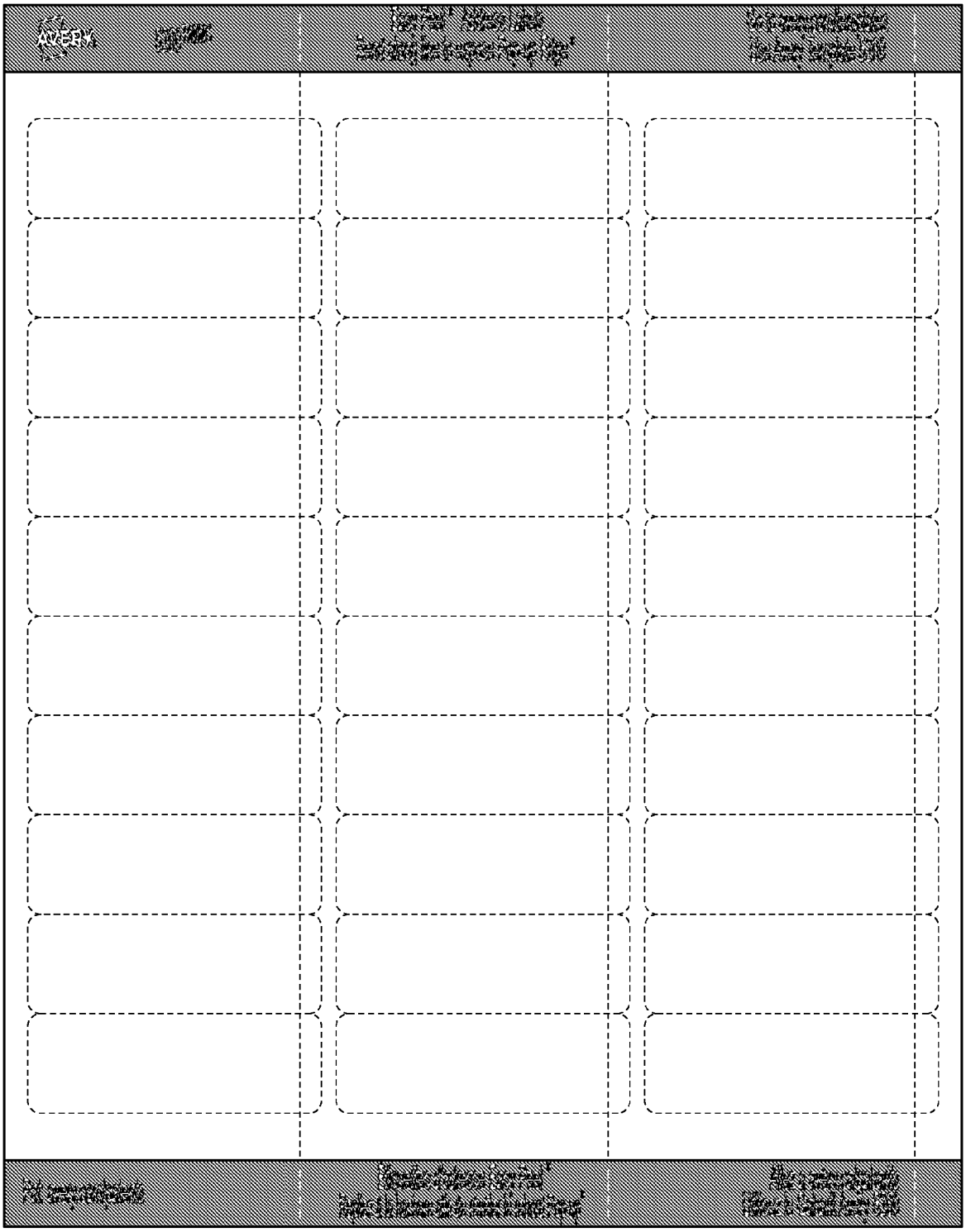


FIG. 46



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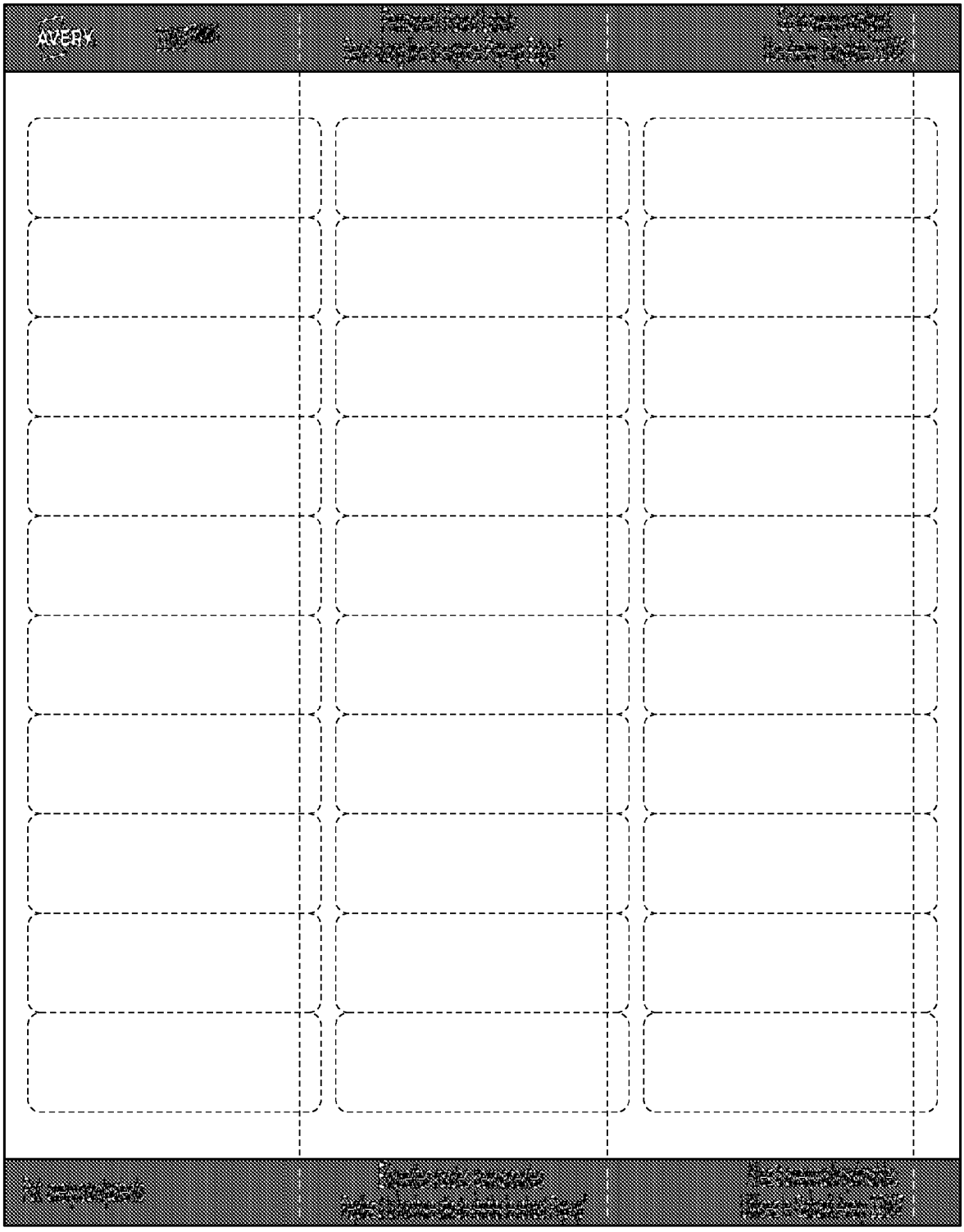
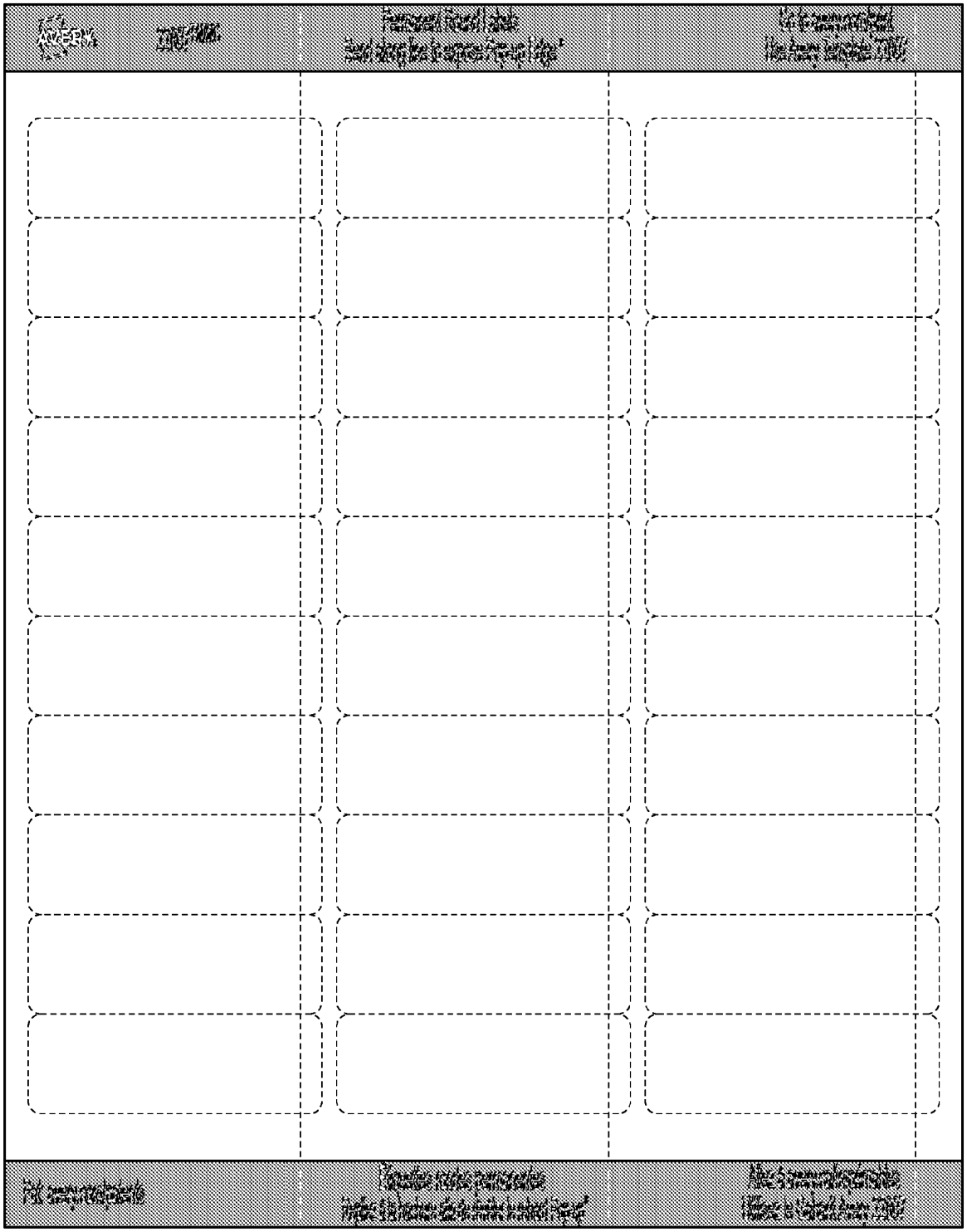


FIG. 48



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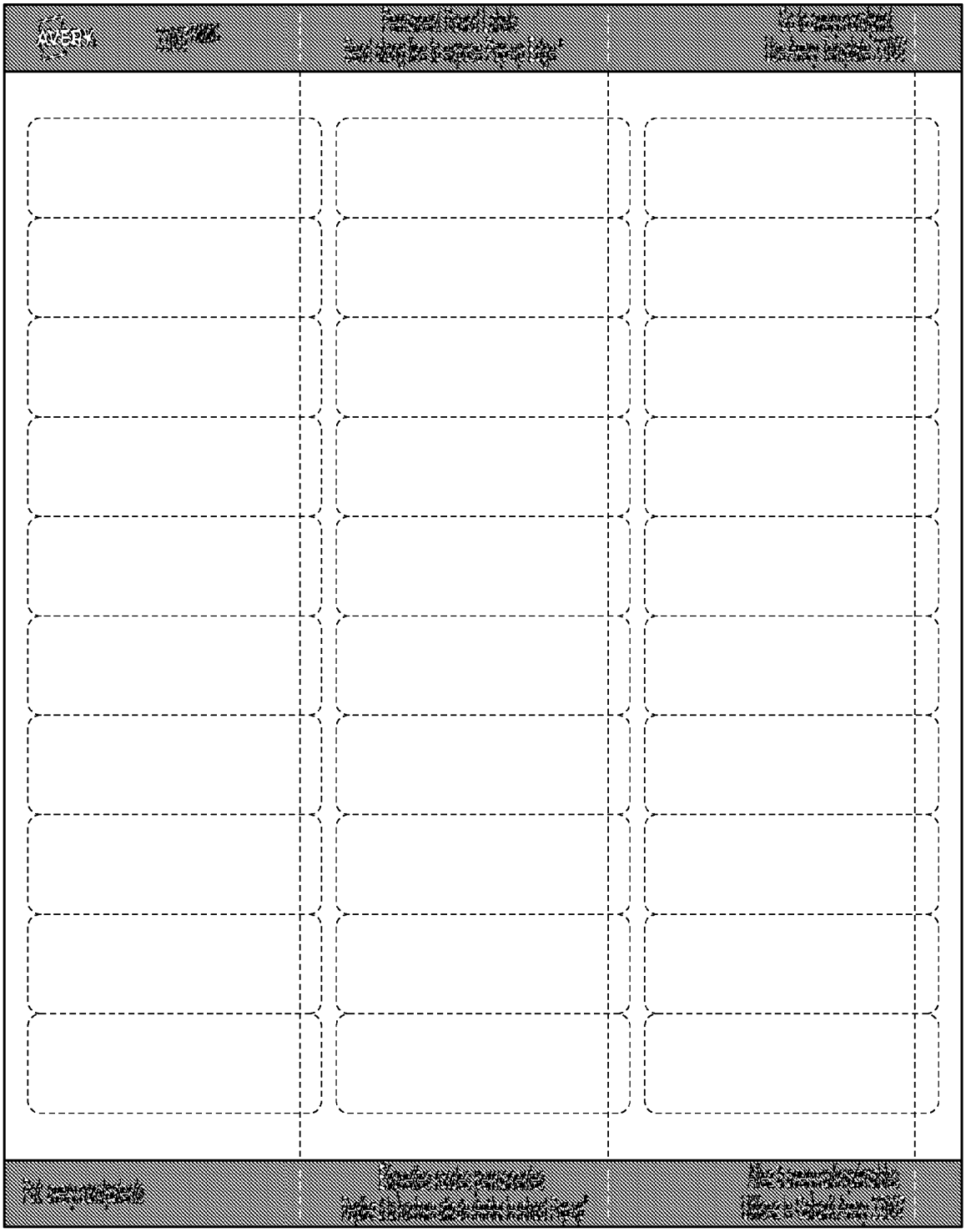

FIG. 50

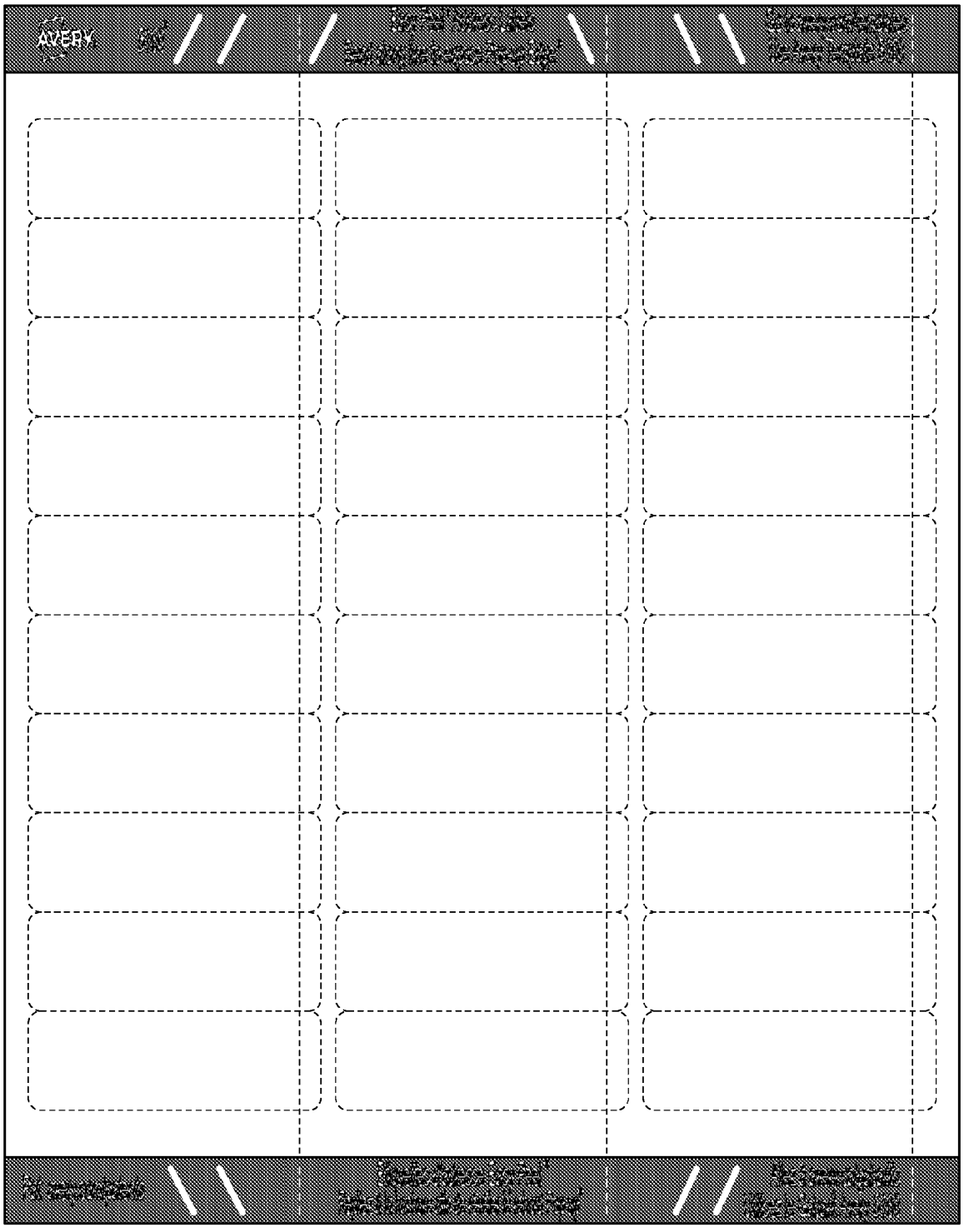

FIG. 51

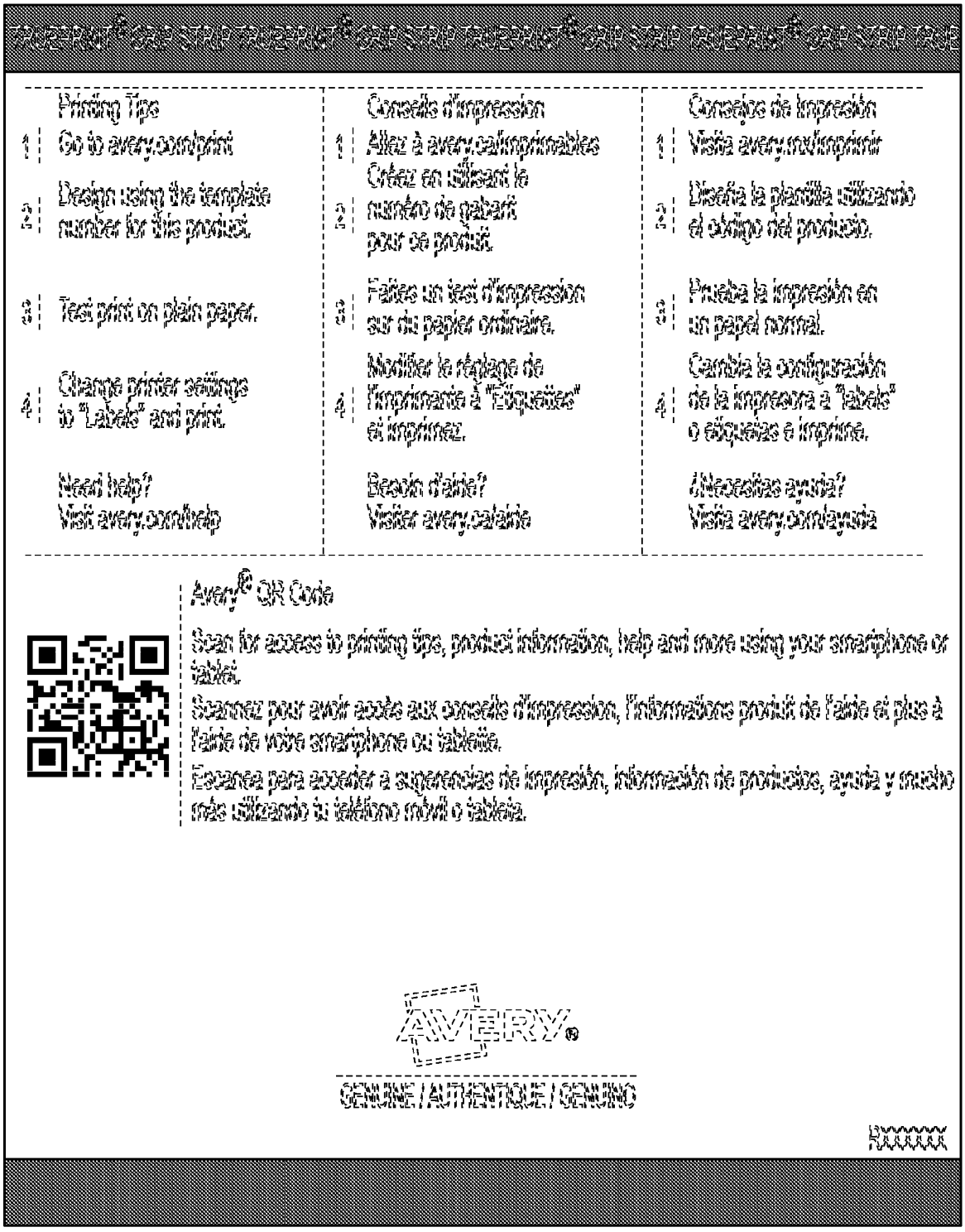
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FIG. 52

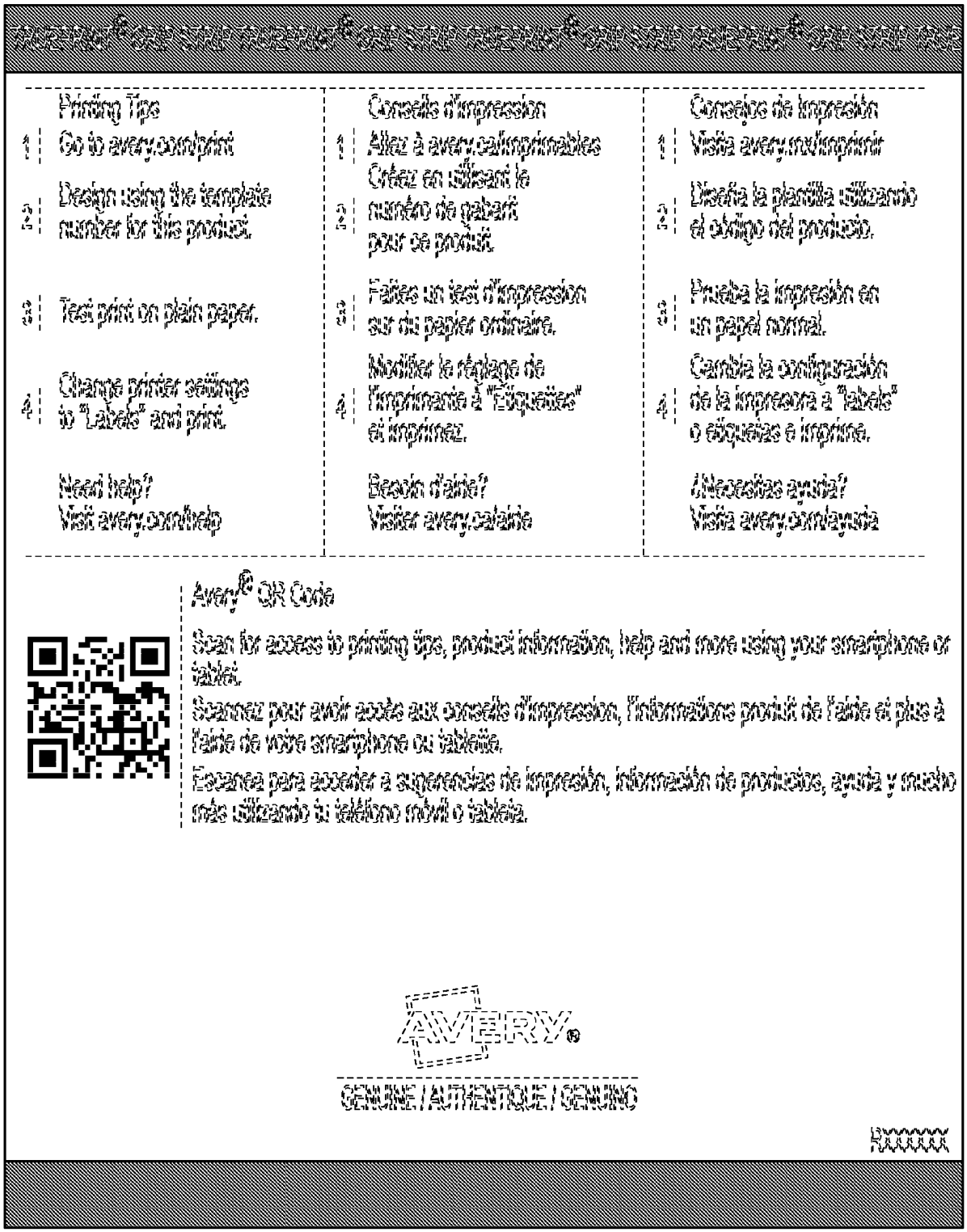
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FIG. 53

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