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(54) **DISPENSER WITH A CUTTING EDGE AND A METHOD OF FORMING THE DISPENSER**

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(57)

ABSTRACT

A dispenser that includes a first housing in which sheet material is arrangeable and a second housing and a method of forming the same. The first housing is arrangeable within the second housing and includes a cutting edge that is configured to cut a desired length of the sheet material. A spinner can be incorporated into the first housing to aid in the rotation and forward and rearward movement of sheet paper.



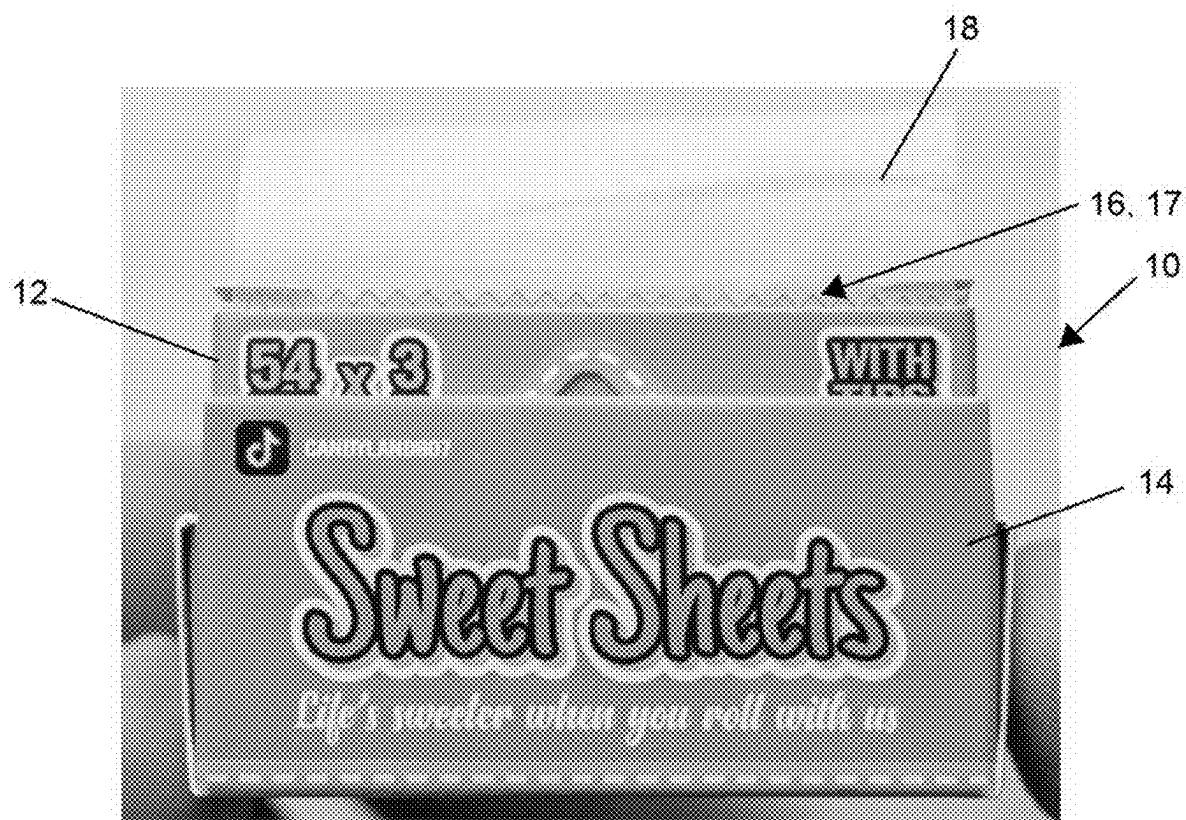
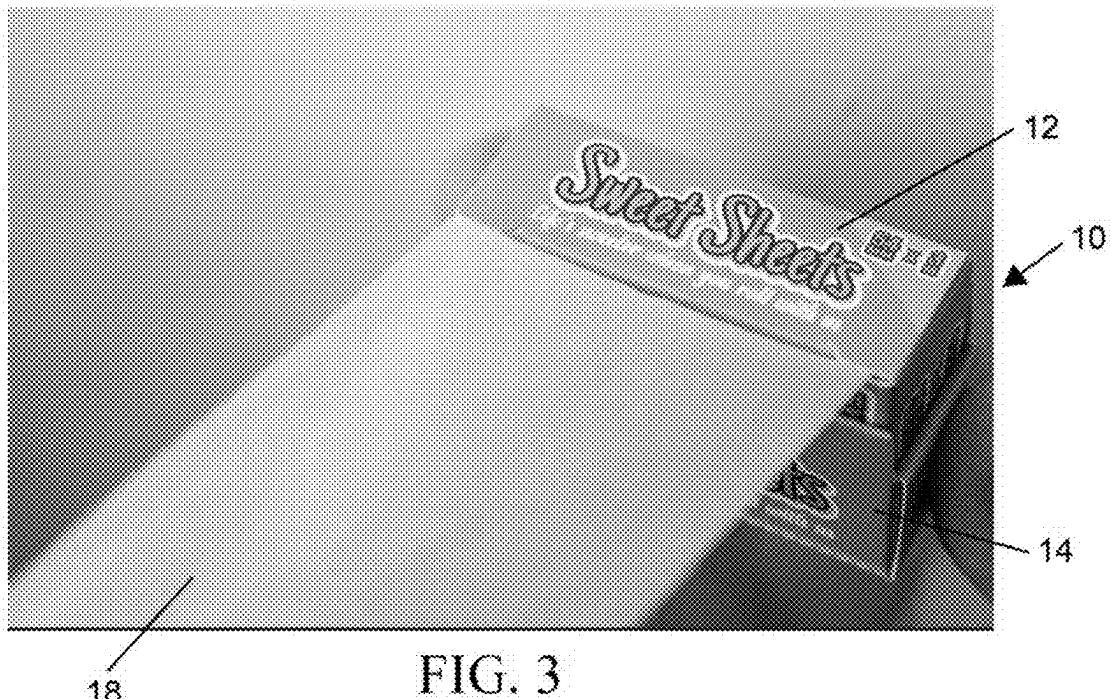
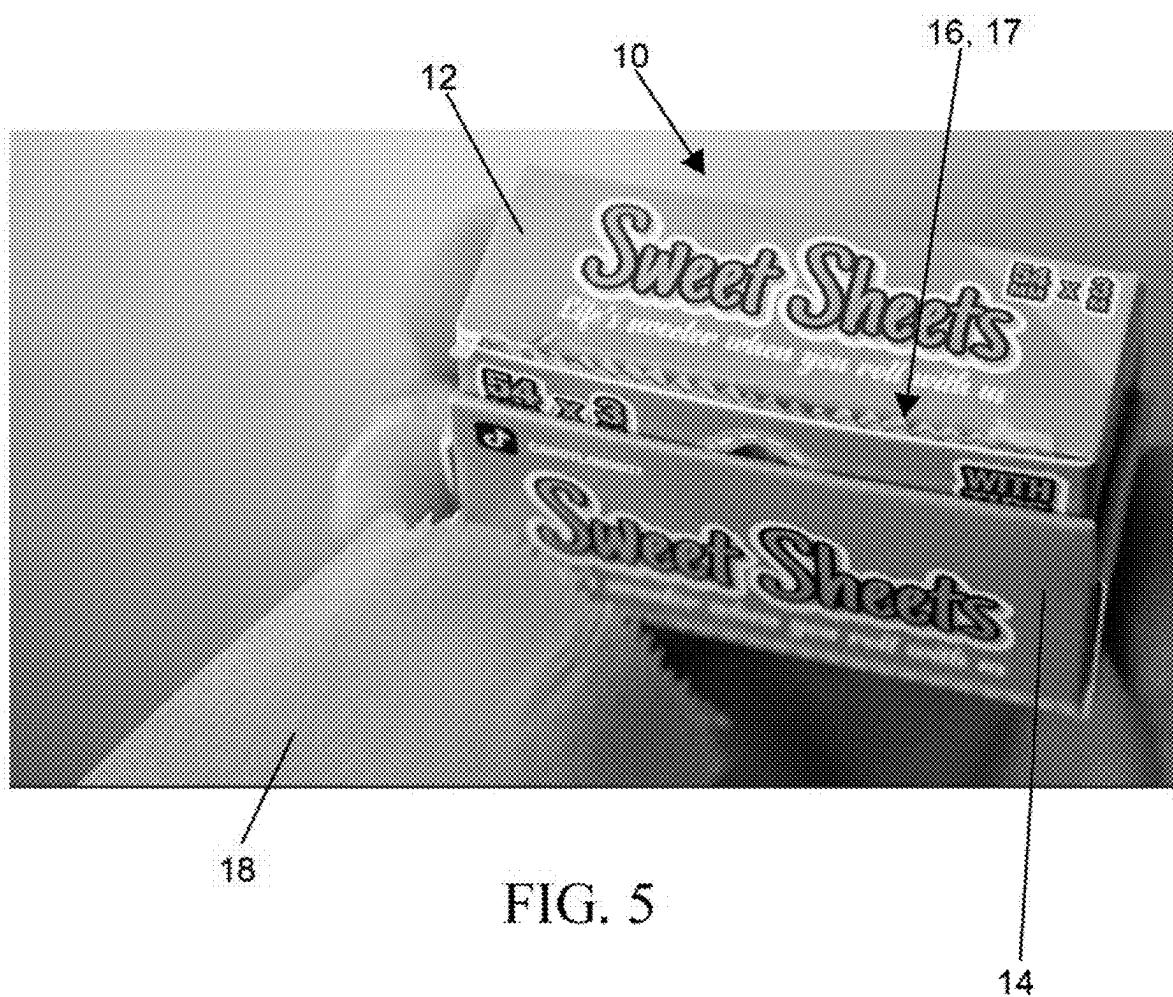


FIG. 1



FIG. 2





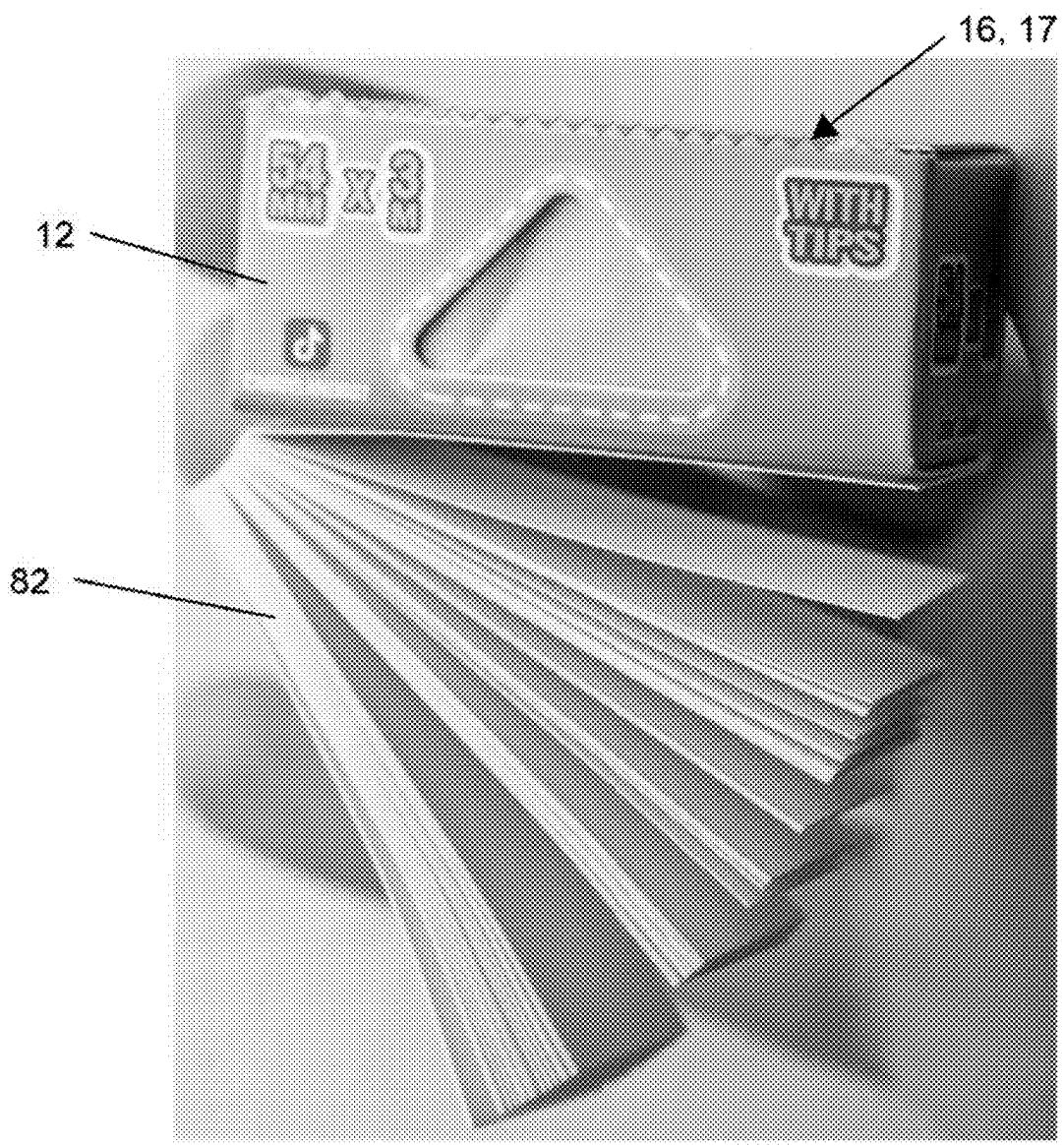


FIG. 6

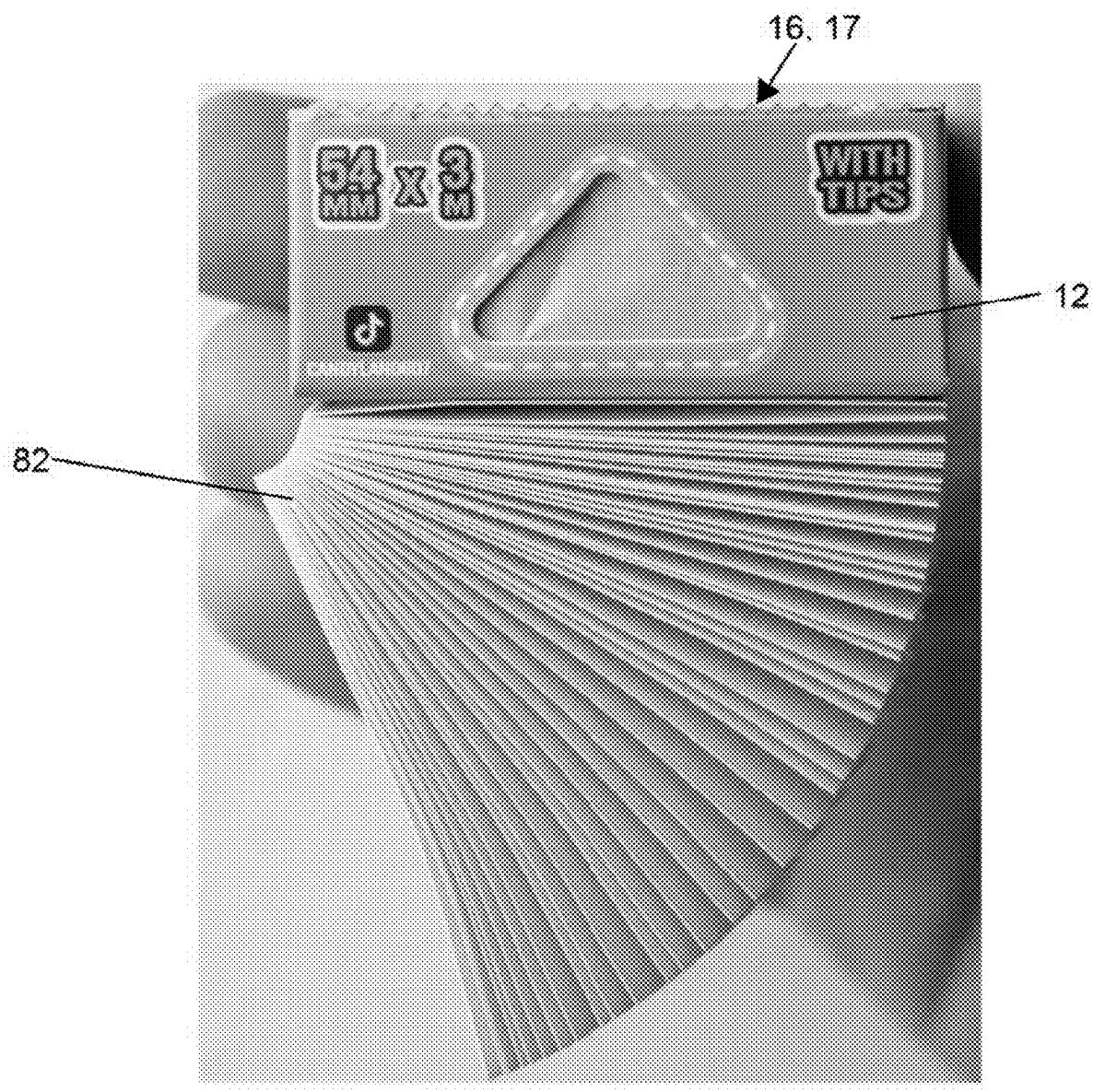


FIG. 7

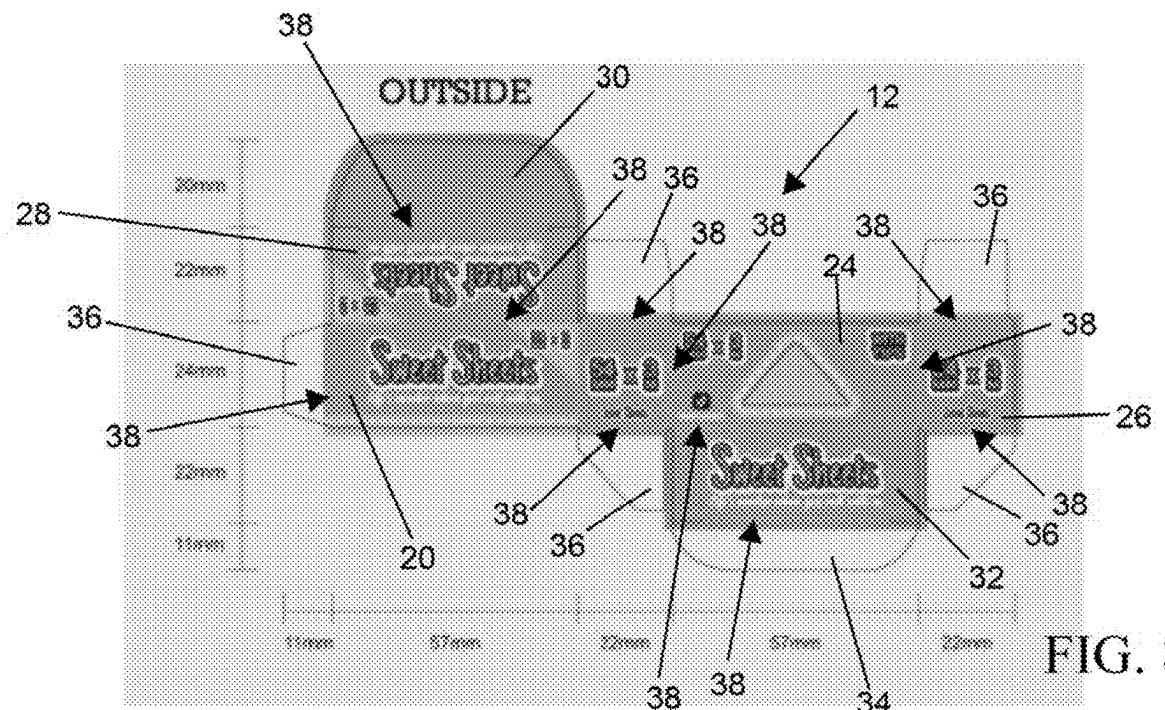


FIG. 8

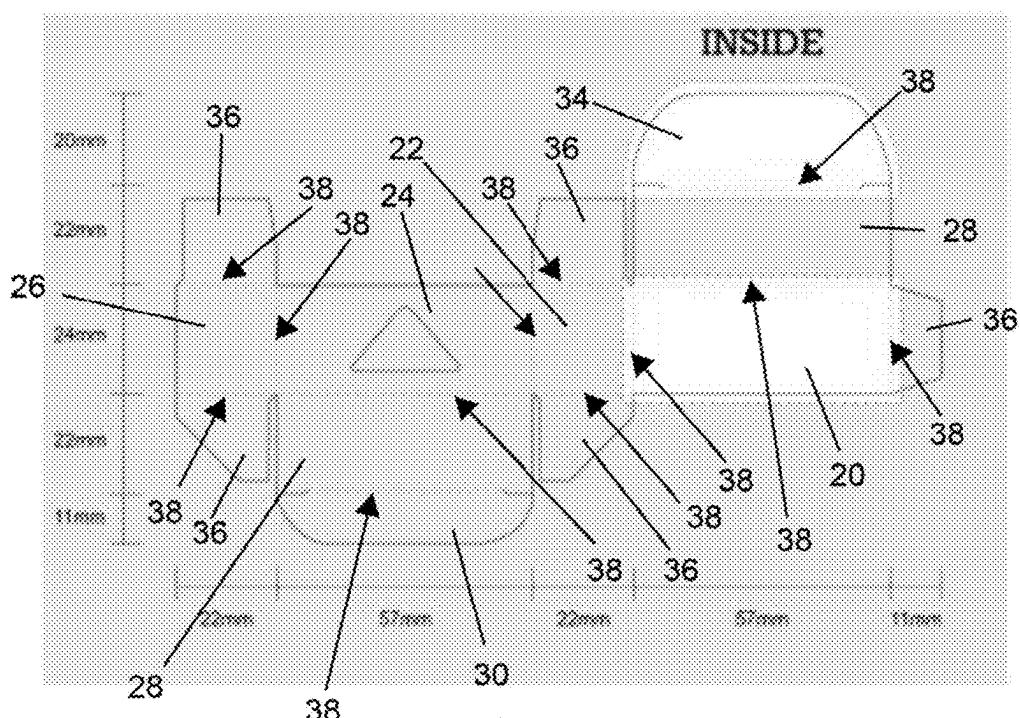


FIG. 9

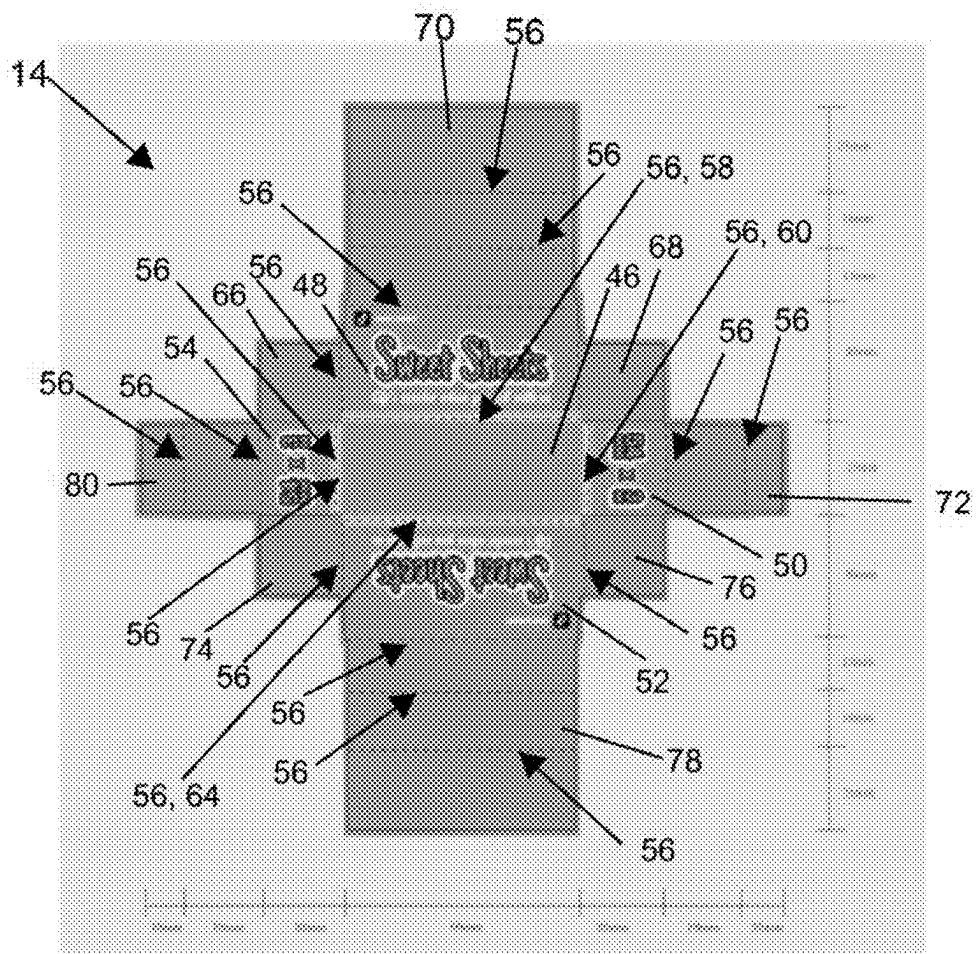


FIG. 10

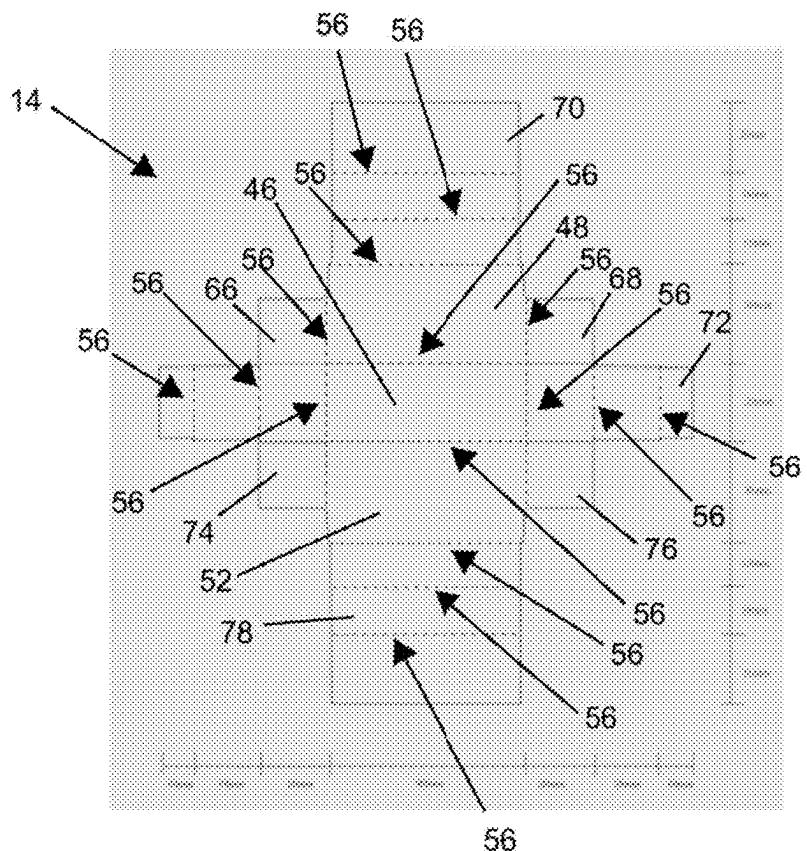


FIG. 11

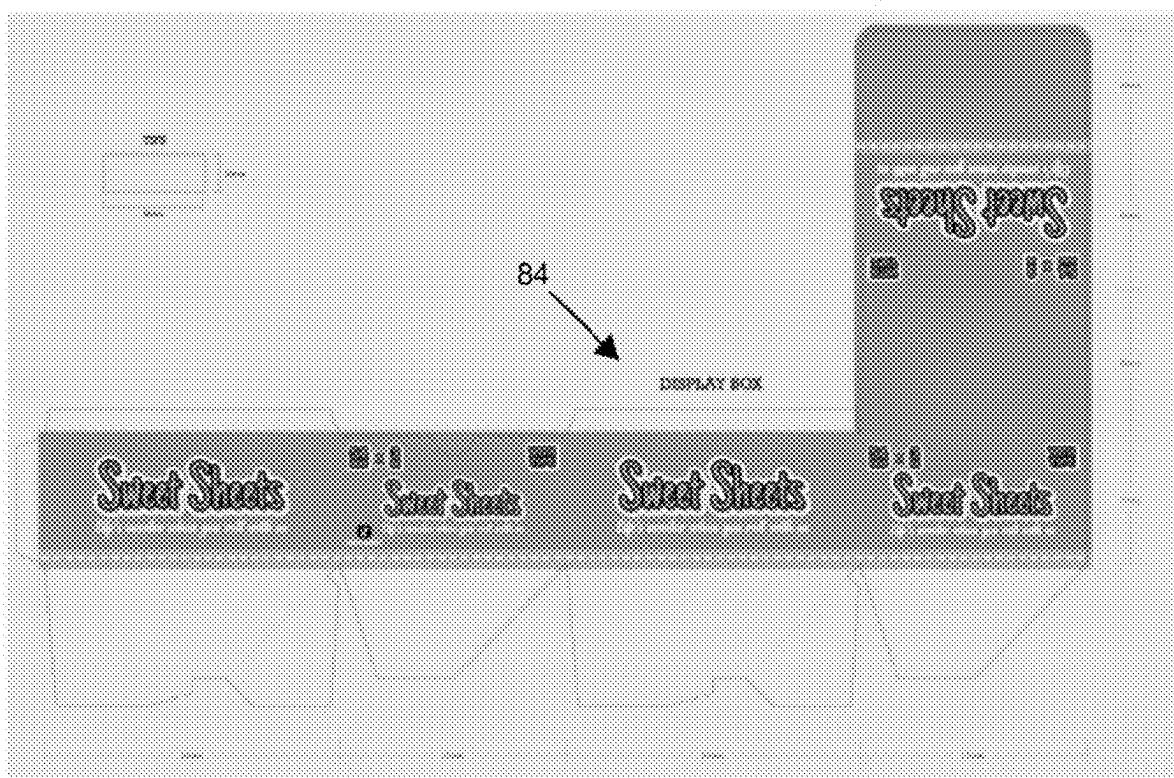


FIG. 12

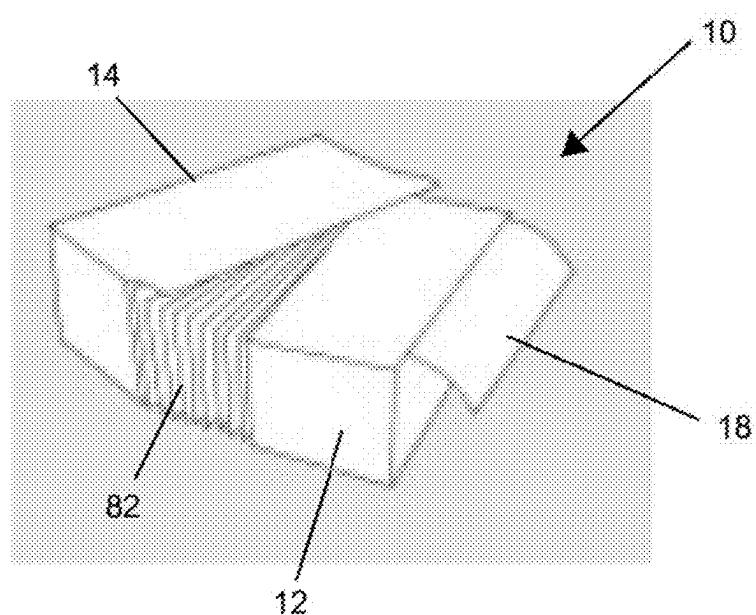


FIG. 13

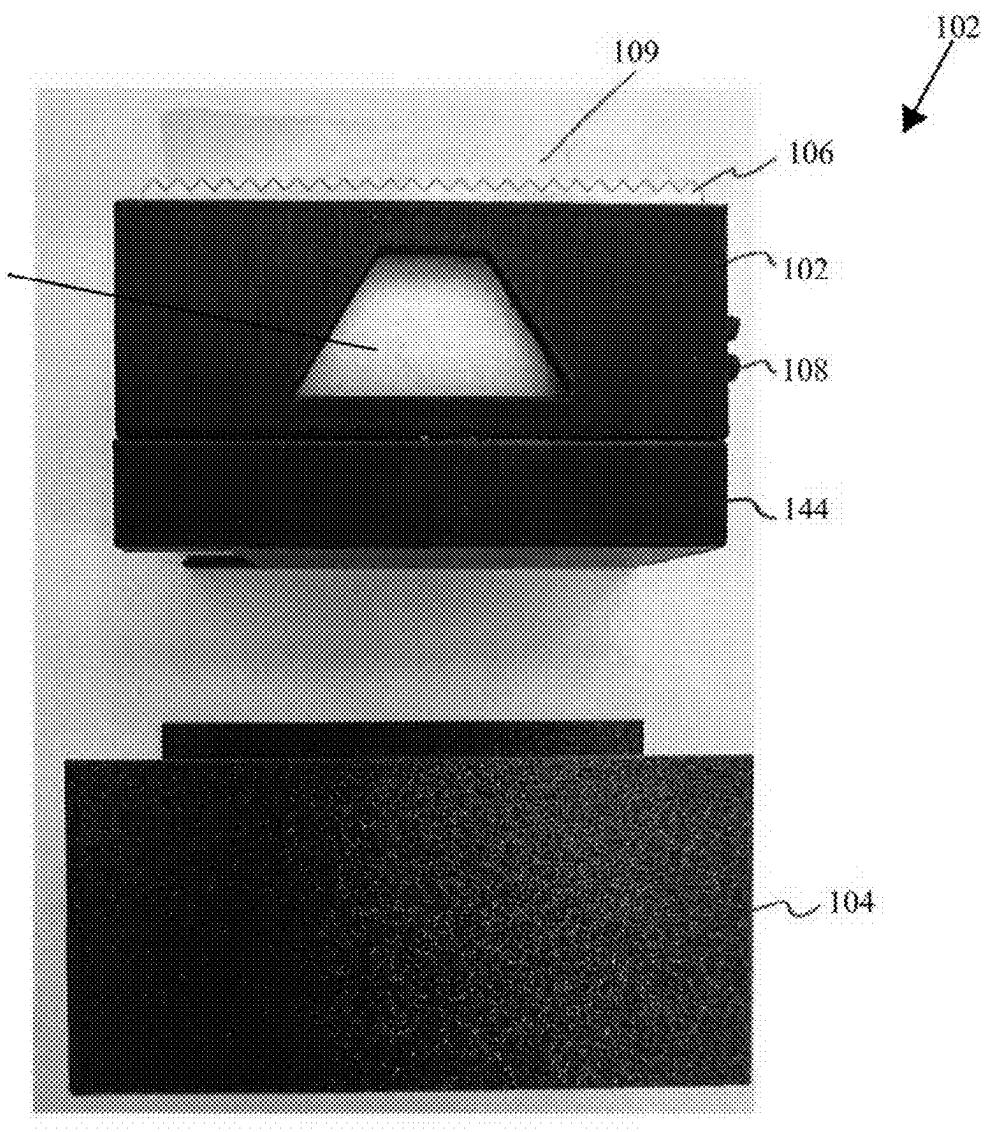


FIG. 14

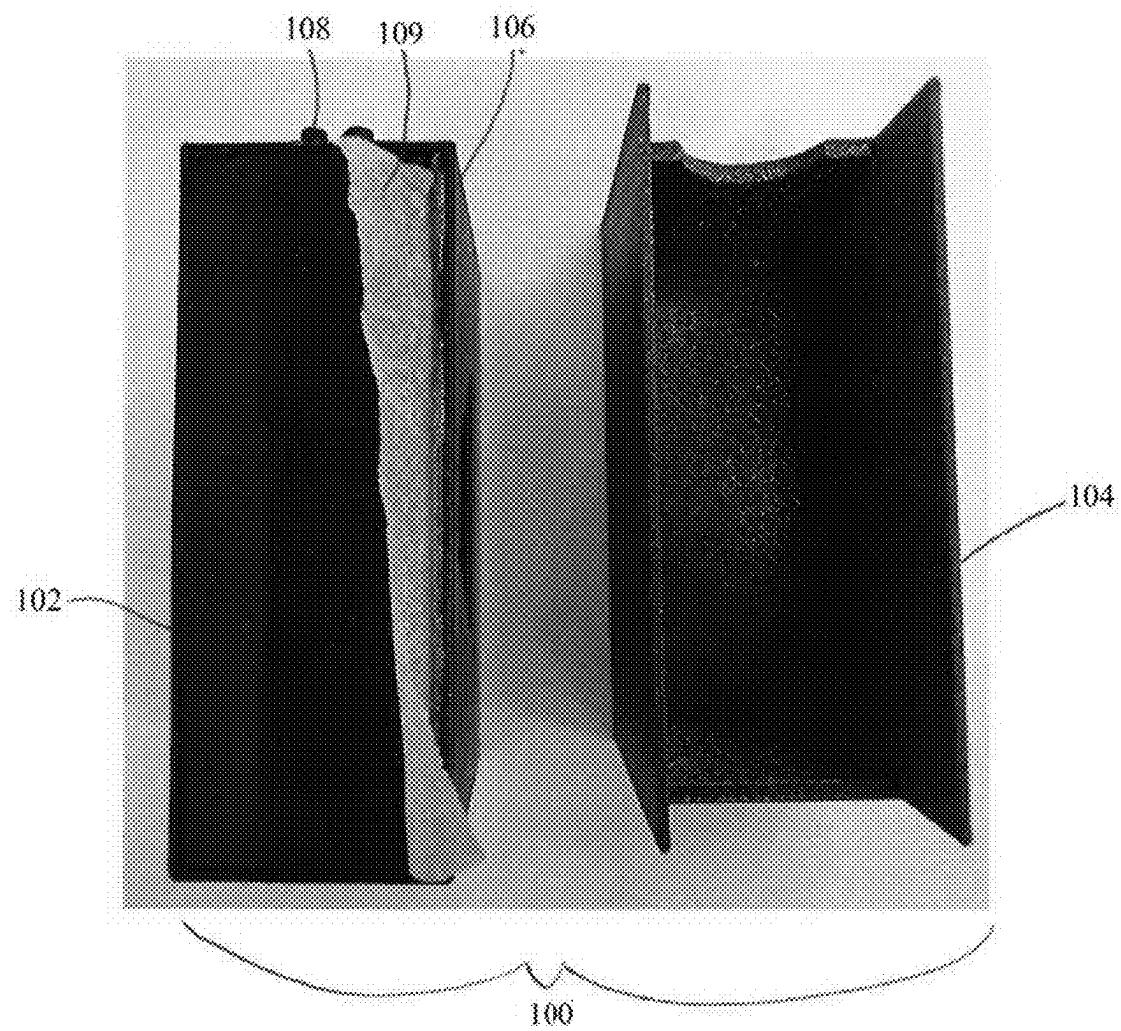


FIG. 15

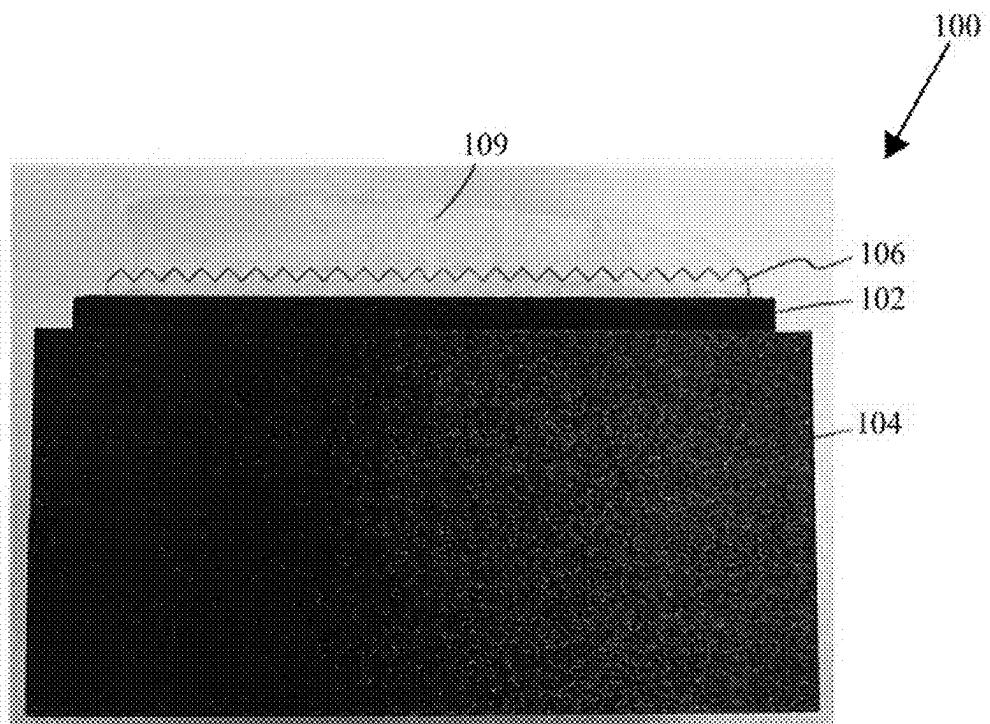


FIG. 16

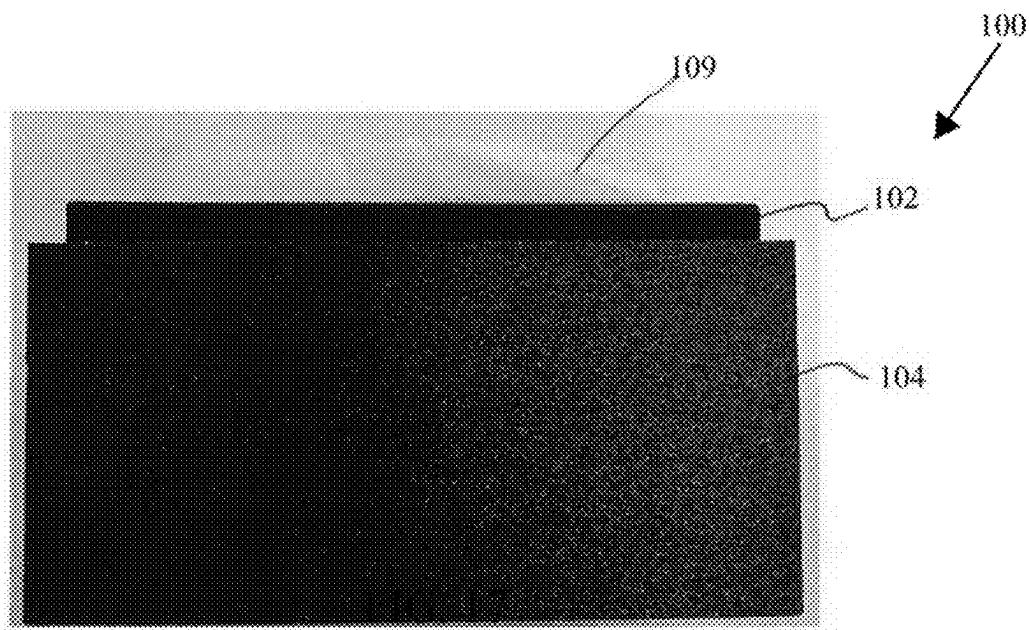


FIG. 17

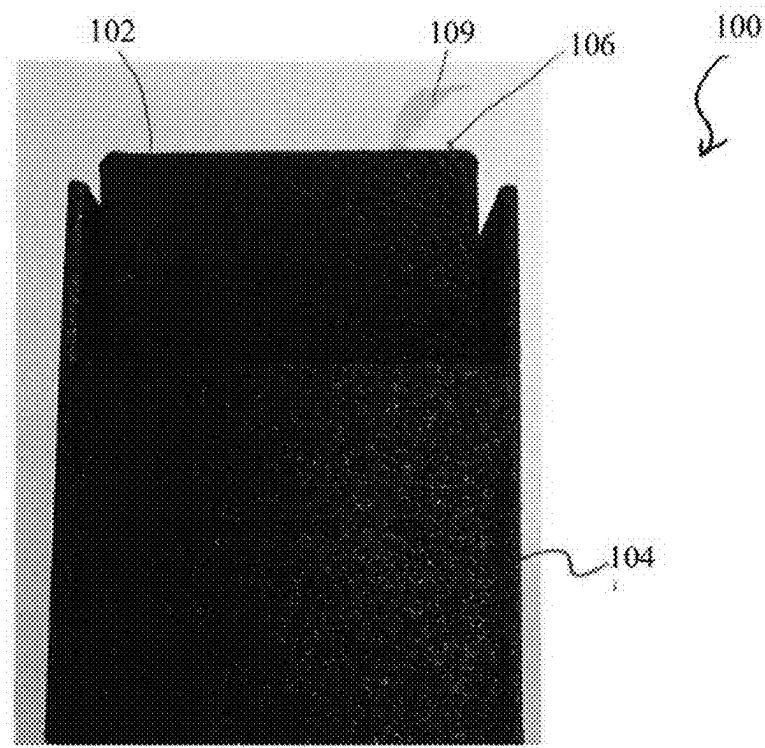


FIG. 18

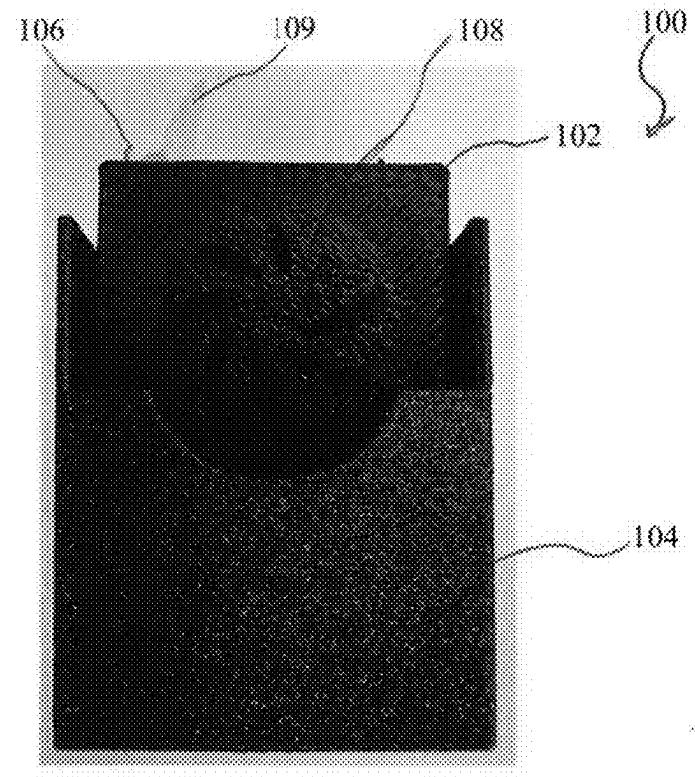


FIG. 19

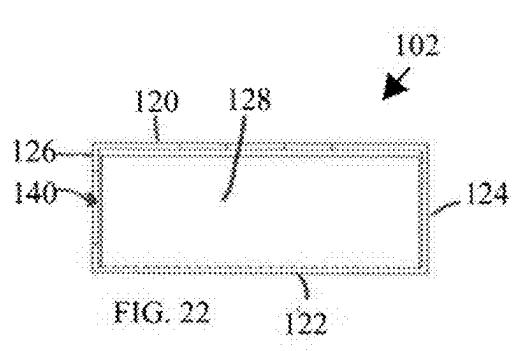


FIG. 22

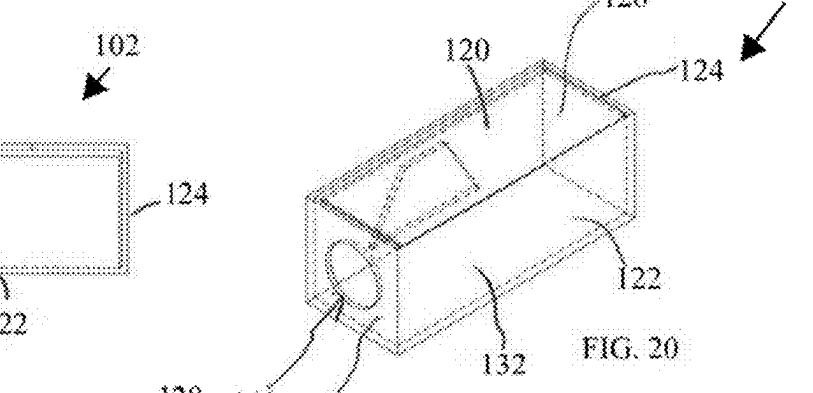


FIG. 20

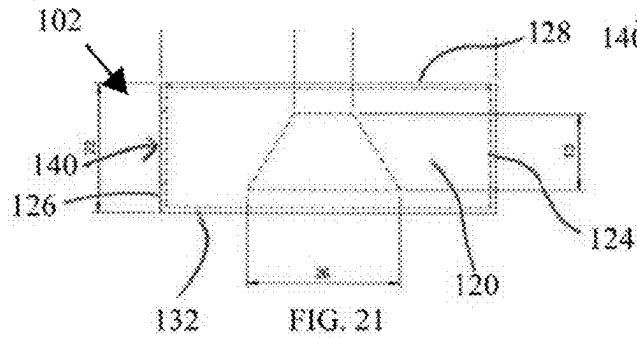


FIG. 21

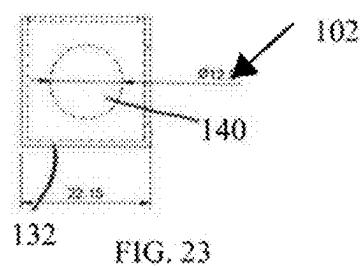


FIG. 23

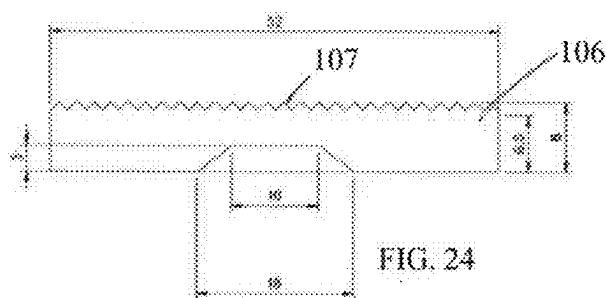


FIG. 24

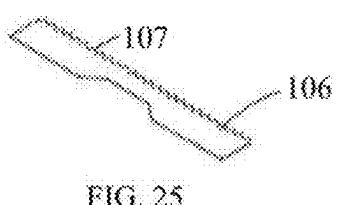


FIG. 25

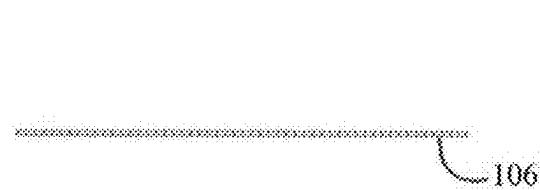


FIG. 26

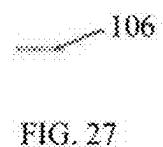
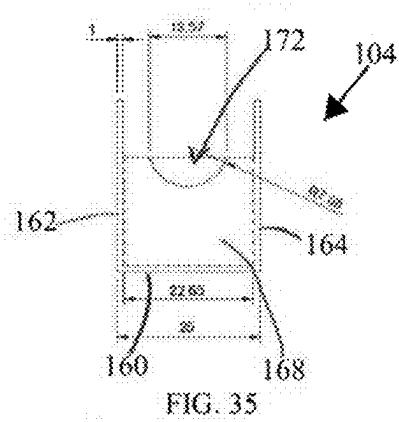
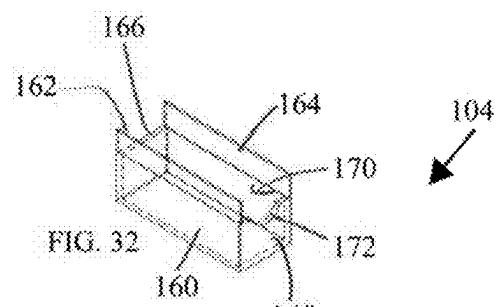
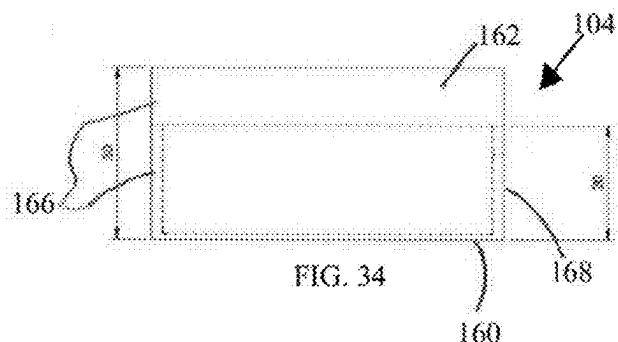
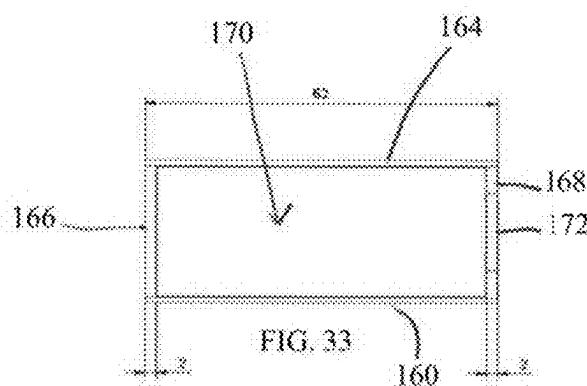
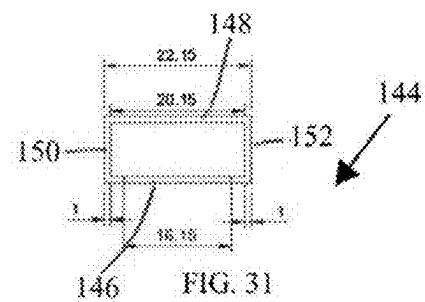
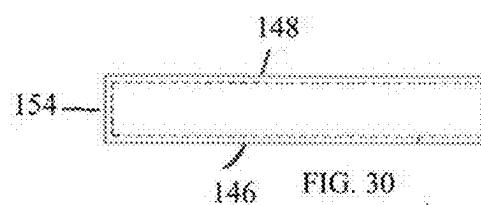
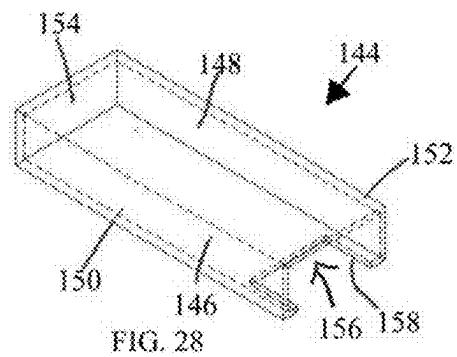
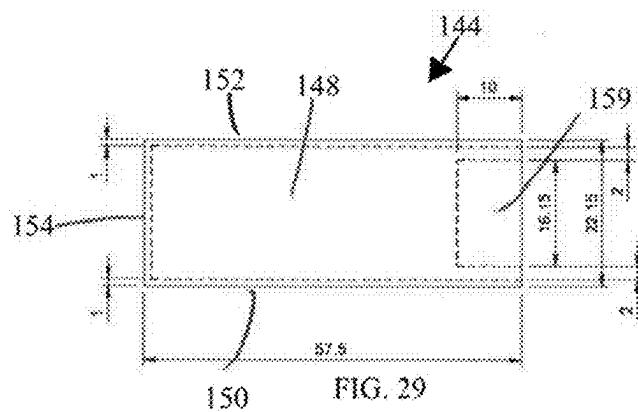
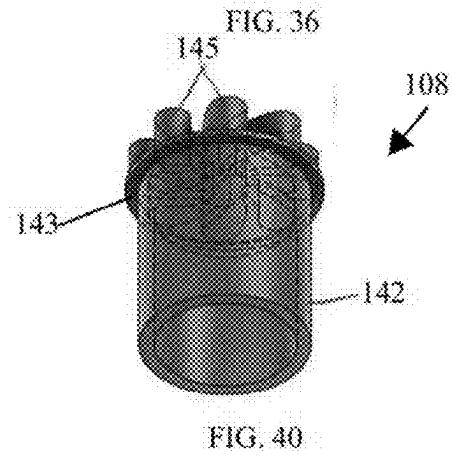
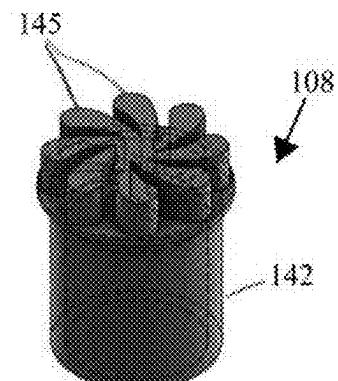
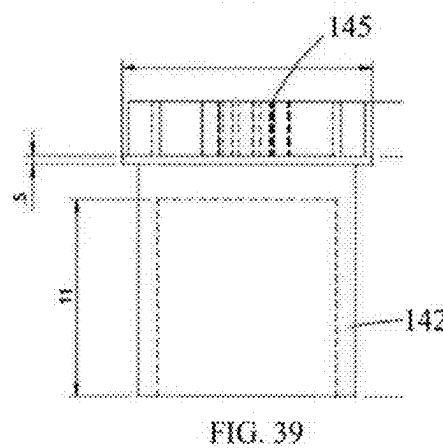
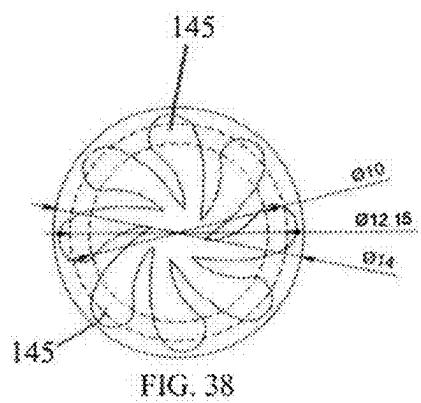


FIG. 27





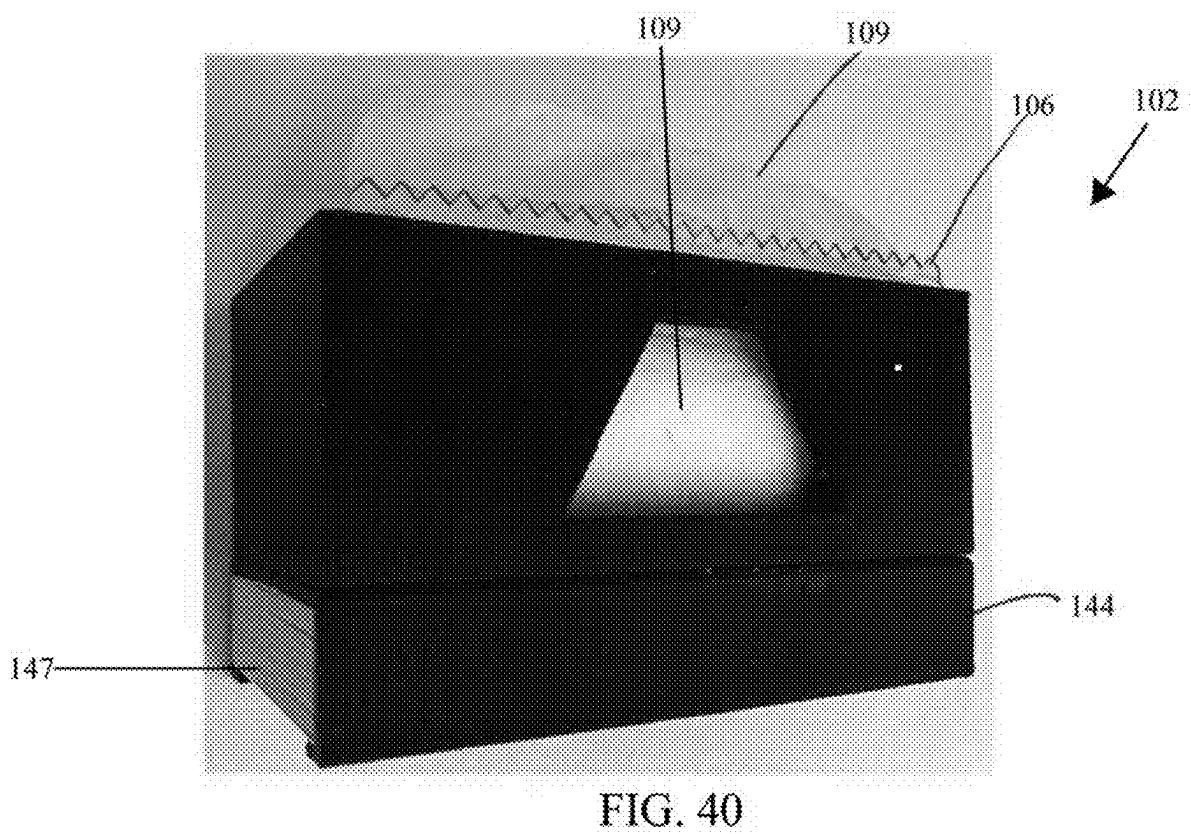


FIG. 40

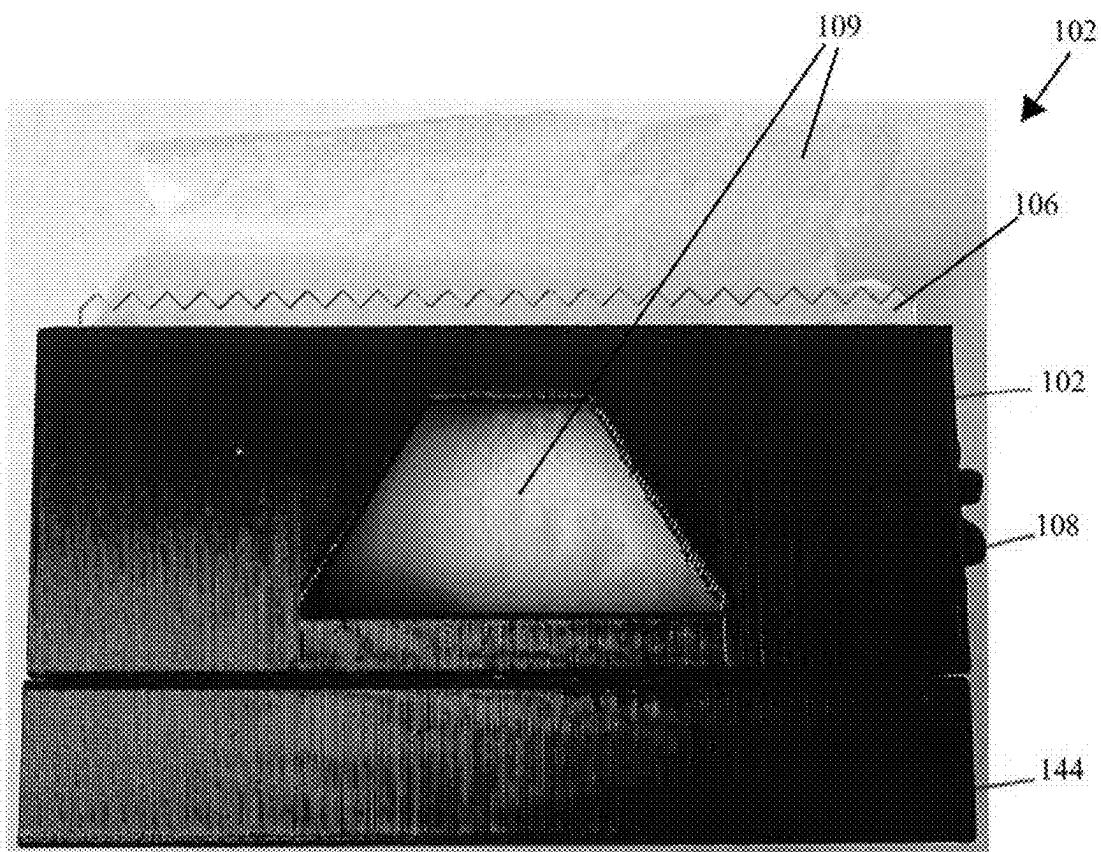


FIG. 41

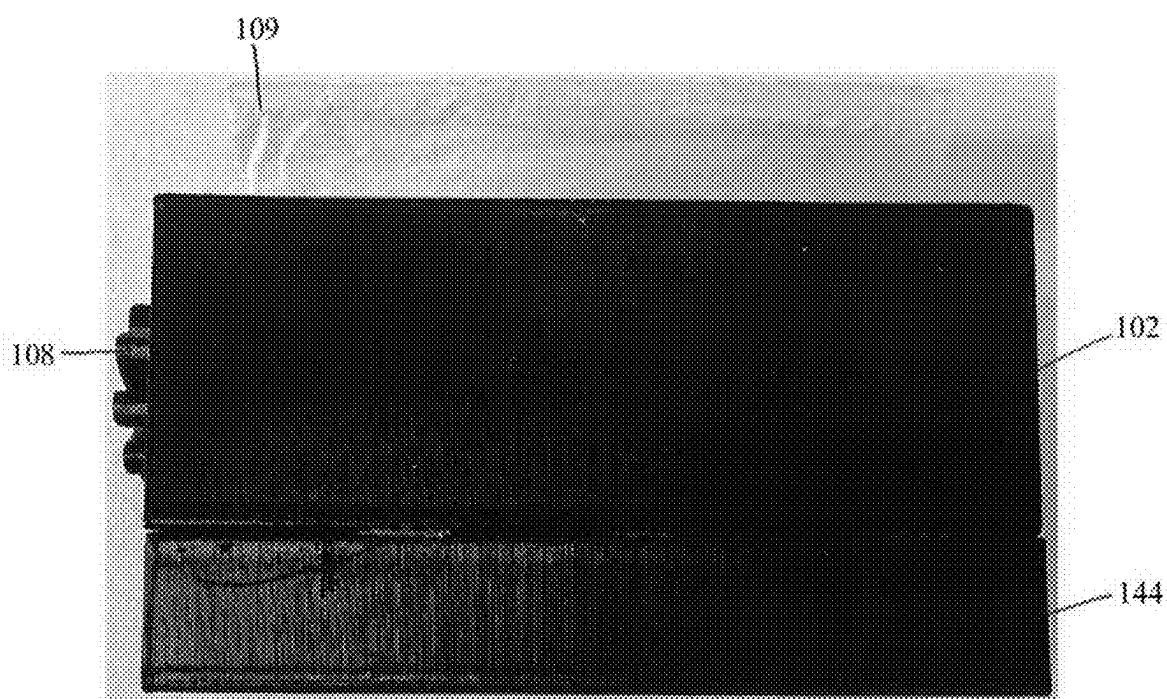


FIG. 42

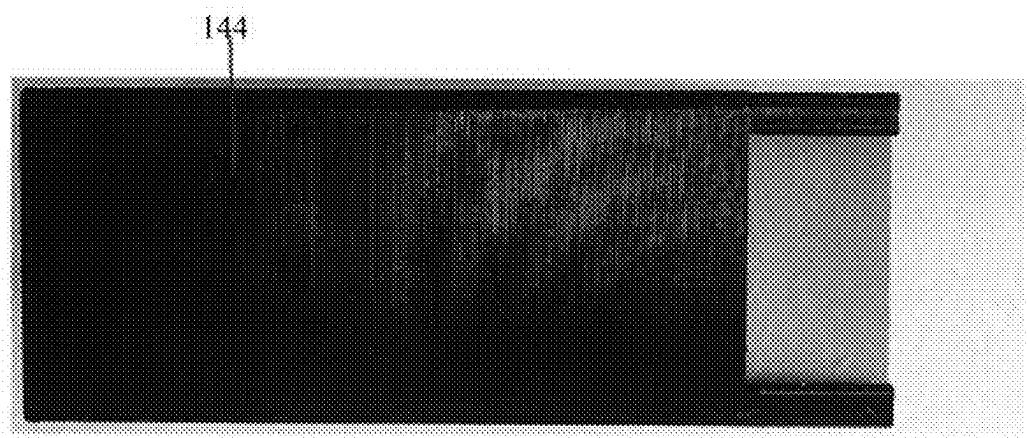


FIG. 43

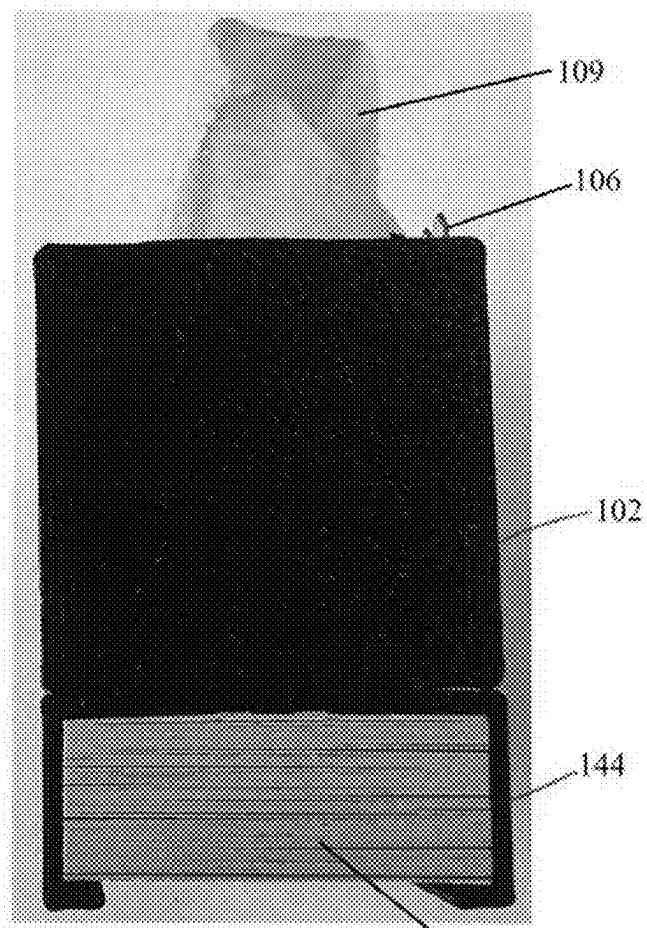


FIG. 44

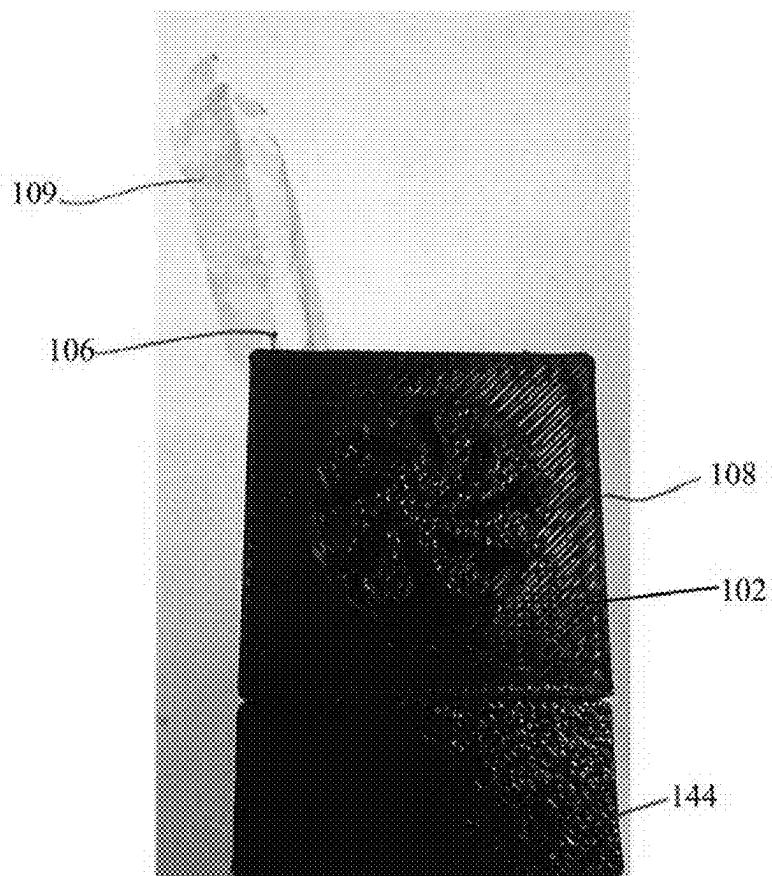


FIG. 45

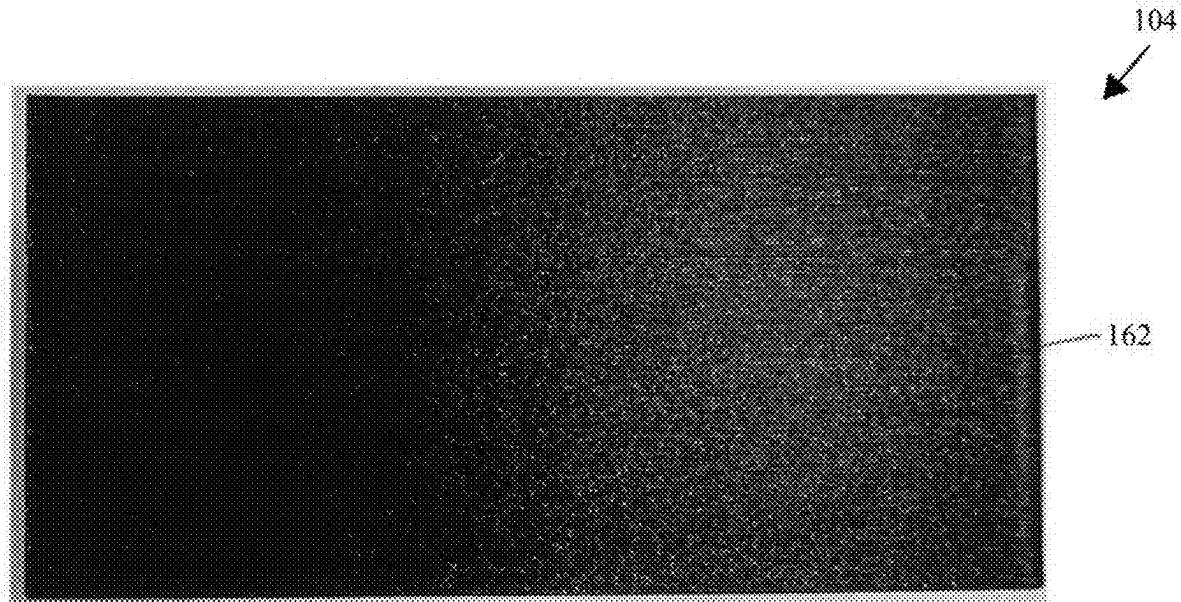


FIG. 46

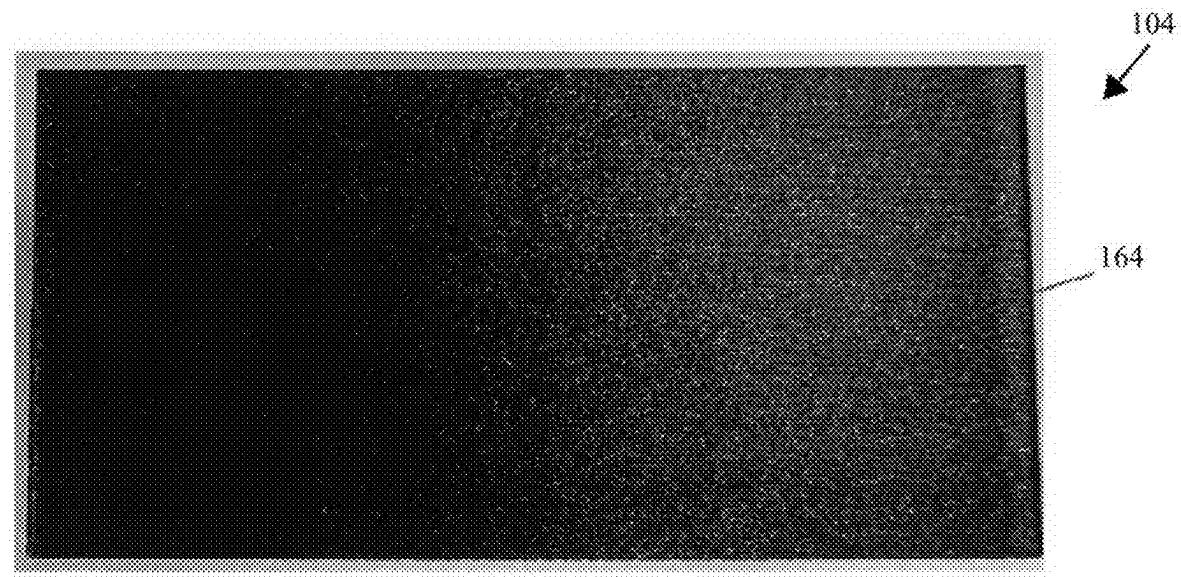


FIG. 47

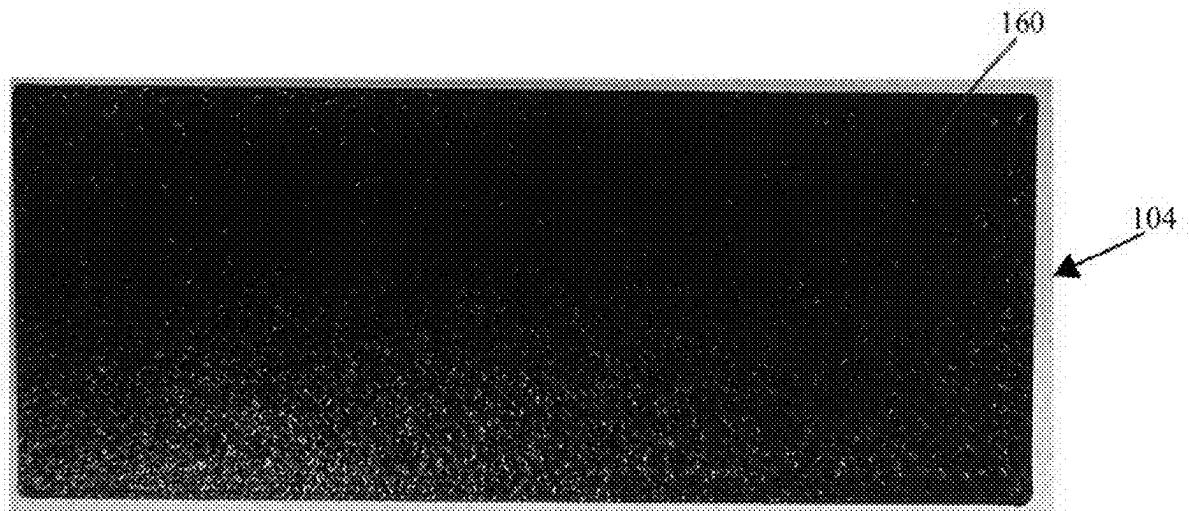


FIG. 48

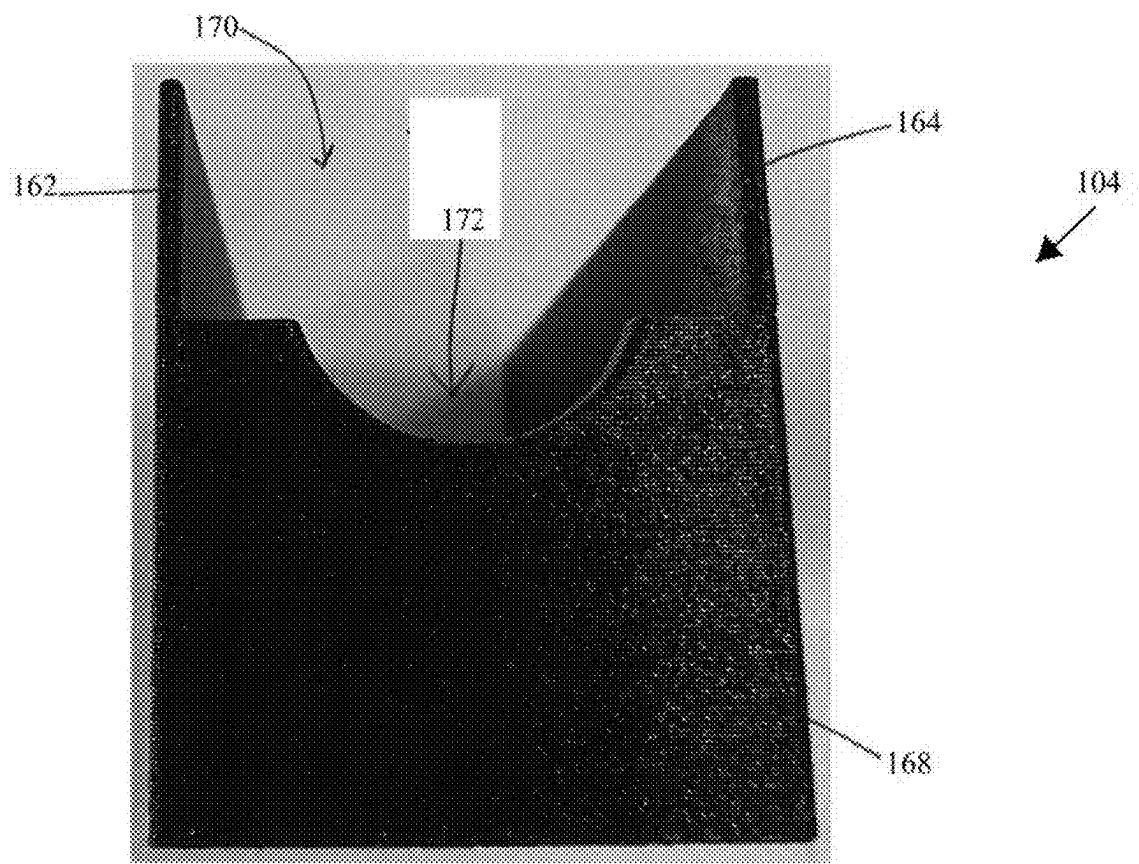


FIG. 49

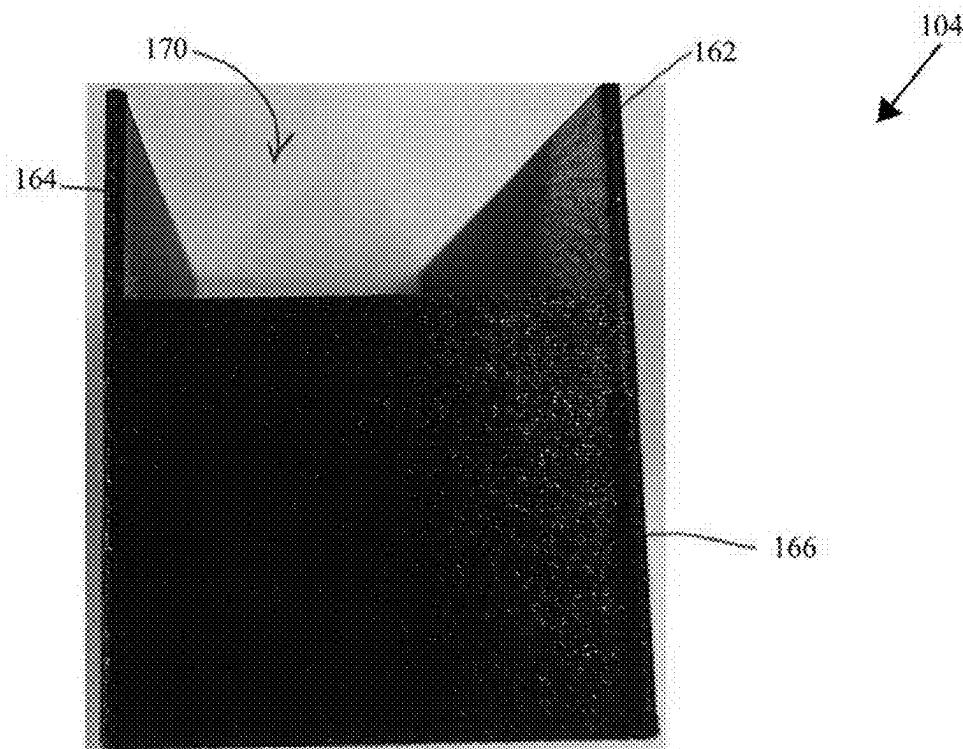


FIG. 50

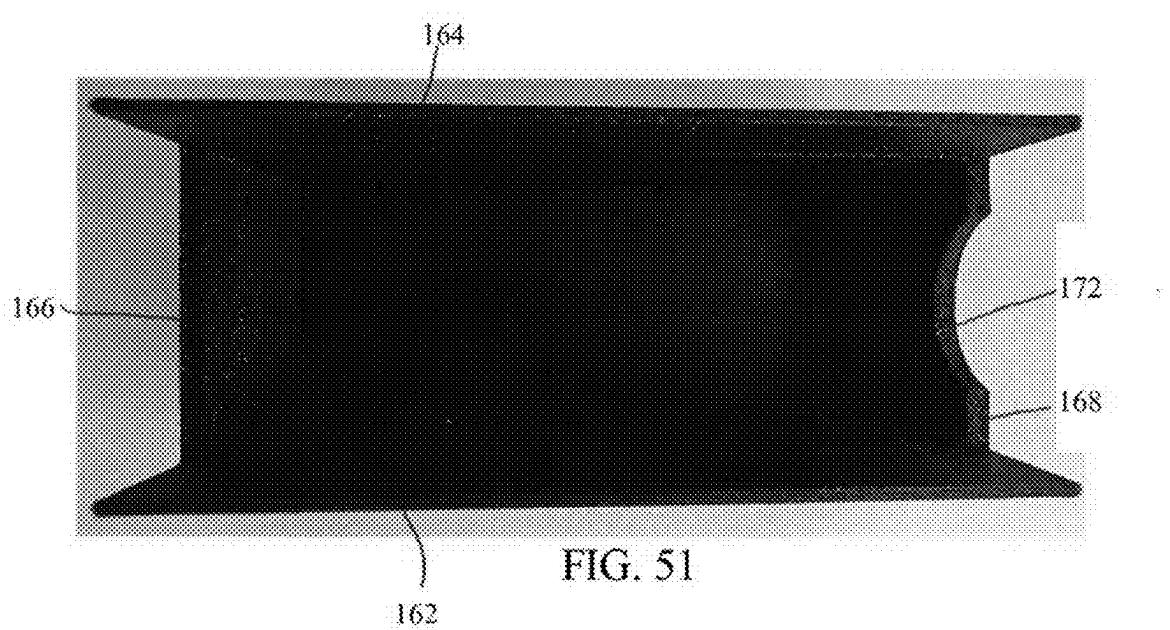


FIG. 51

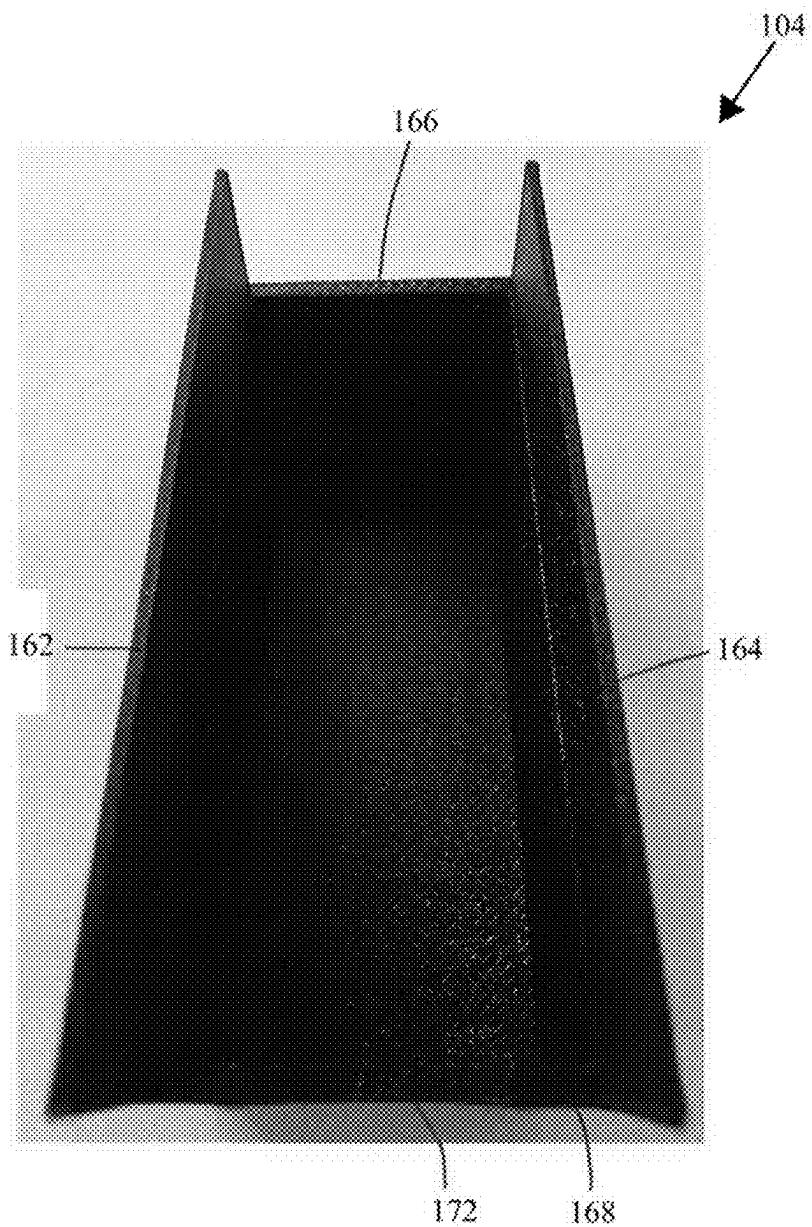
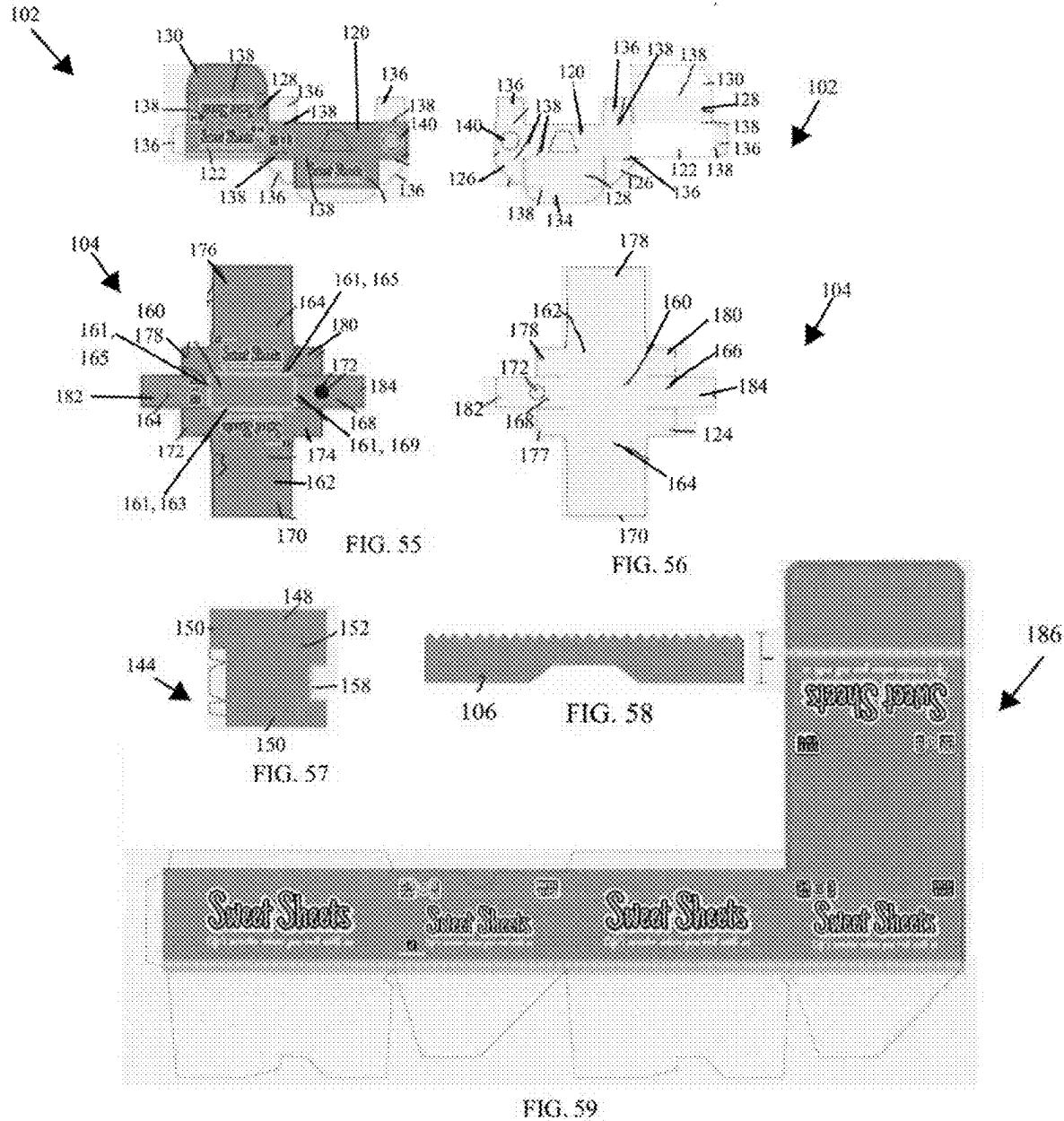


FIG. 52



DISPENSER WITH A CUTTING EDGE AND A METHOD OF FORMING THE DISPENSER

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This patent application claims benefit to U.S. Provisional Patent Application No. 63/551,775, filed Feb. 9, 2024 and U.S. Provisional Patent Application No. 63/632,667, filed Apr. 11, 2024, which are hereby incorporated by reference in their entirety as part of the present disclosure.

FIELD OF THE INVENTION

[0002] The present disclosure generally relates to a dispenser and more specifically to packaging in which sheet material is arrangeable therein and dispensable therefrom, and that includes a cutting edge that is configured to cut a desired length of the sheet material.

BACKGROUND OF THE INVENTION

[0003] Dispensers configured for supplying sheet material from a roll arranged in a dispenser are known. In general, rolling paper is also known. Rolling paper is predominantly offered for sale in standard, pre-cut sizes. Precut rolling paper lacks the ability to customize the length of a sheet of material. As a result, users are constrained to the predetermined dimensions provided by manufacturers, leading to potential wastage or inconvenience for those requiring specific lengths. The one-size-fits-all approach is a notable limitation in the industry, often resulting in a compromise on the user's part. Moreover, the need to purchase multiple sizes of pre-cut rolling paper to suit different preferences adds to consumer expenses and is less environmentally friendly. As such, there is a need for a more personalized and efficient way to obtain any desired length of rolling paper.

SUMMARY OF THE INVENTION

[0004] In an embodiment the present disclosure is directed to a dispenser comprising a first housing, a second housing, the first housing being arrangeable within the second housing, and a cutting edge fixed to one of the first housing and the second housing and extending therefrom. The cutting edge can extend beyond one of the first housing or second housing.

[0005] The first housing can include a base, a first sidewall extending from a first side of the base, a second sidewall that is spaced from the first sidewall, extending from a second side of the base, a third sidewall extending from a third side of the base, between a first end of the first sidewall and a first end of the second sidewall, a fourth sidewall extending from a fourth side of the base, between a second end of the first sidewall and a second end of the second sidewall, and a top wall, the first sidewall, the first sidewall, the second sidewall, the third sidewall and the fourth sidewall defining a cavity therebetween with the top wall configured to extend over the cavity. A tab can extend from the top wall of the first housing to aid in securing the top wall and sealing the cavity. The third or fourth sidewall can include an opening.

[0006] A wheel can be rotatably fixed to and extending from the opening in one of the third sidewall and the fourth sidewall of the first housing. The wheel can include a cylindrical body and a rim at one end of the cylindrical body.

The wheel can include a plurality of projections configured to aid in gripping and rotating the wheel.

[0007] The second housing can include a base, a first sidewall extending from the base, a second sidewall that is spaced from the first sidewall and extending from the base, a third sidewall extending from the base between a first end of the first sidewall and a first end of the second sidewall to delimit a first end of the second housing and a fourth sidewall extending from the base between a second end of the first sidewall and a second end of the second sidewall to delimit a second end of the second housing, the first sidewall, the second sidewall, the third sidewall and the fourth sidewall defining a cavity that is open at the top of the second housing. The first sidewall and the second sidewall can extend a distance from the base that is further than a distance the third sidewall and the fourth sidewall extend from the base of the second housing. One of the third sidewall or the fourth sidewall can include a concave groove that extends from a top of the third sidewall or the fourth sidewall toward the base of the second housing. The groove allows for the wheel to extend past the second housing without contacting the second housing so as to be rotatable as desired. Alternatively, the second housing can include an opening through which the wheel can extend.

[0008] A sheet of tips can be fixable to a base of the first housing and, in an assembled state nested between the first housing and the second housing. Alternatively, an enclosure can be fixed to a base of the first housing that is configured to house sheet paper. The enclosure can include a bottom wall, a top wall that is spaced from the bottom wall, a first sidewall that extends longitudinally between the top wall and the bottom wall, a second sidewall that is spaced from the first sidewall and extends longitudinally between the top wall and the bottom wall and a third sidewall that extends transverse between the first sidewall and the second sidewall to delimit one end of the case, the top wall, the bottom wall and the sidewalls form a cavity with an opening at one end.

[0009] In another embodiment, the present disclosure can be directed to a method of forming a dispenser, comprising the following steps: providing a first housing having a cutting edge fixed thereto and extending therefrom and a second housing with the first housing; folding the first housing along fold line to create a first enclosure in which a roll of sheet material is arranged and extends therefrom; folding the second housing along fold lines to create a second enclosure; and arranging the first housing within the second housing.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] FIG. 1 is a front perspective view of a dispenser with a cutting edge according to an embodiment of the present disclosure;

[0011] FIG. 2 is a second front perspective view of the dispenser of FIG. 1 with sheet material extending therefrom according to an embodiment of the present disclosure;

[0012] FIG. 3 is a top perspective view of the dispenser of FIG. 1 with sheet material extending therefrom according to an embodiment of the present disclosure;

[0013] FIG. 4 is a second top perspective view of the dispenser of FIG. 1 with sheet material being torn by the cutting edge according to an embodiment of the present disclosure;

[0014] FIG. 5 is a third top perspective view of the dispenser of FIG. 1 with sheet material fully torn at a desired length by the cutting edge according to an embodiment of the present disclosure;

[0015] FIGS. 6 and 7 are perspectives view of a first housing of the dispenser of FIG. 1 with a plurality of tips releasably fixed to and extending from the housing of the dispenser according to an embodiment of the present disclosure;

[0016] FIG. 8 is a top view of a cut sheet of the exterior of the first housing of the dispenser according to an embodiment of the present disclosure;

[0017] FIG. 9 is a top view of a cut sheet an interior of the first housing of the dispenser according to an embodiment of the present disclosure;

[0018] FIG. 10 is a top view of a cut sheet an exterior of a second housing of the dispenser according to an embodiment of the present disclosure;

[0019] FIG. 11 is a top view of a cut sheet an interior of the second housing of the dispenser according to an embodiment of the present disclosure;

[0020] FIG. 12 is a top view of a cut sheet an exterior of a display box of the dispenser according to an embodiment of the present disclosure;

[0021] FIG. 13 is a perspective view of the first housing, tips and the second housing the first housing and the tip being arrangeable within the second housing of the dispenser according to an embodiment of the present disclosure;

[0022] FIG. 14 is a first assembly view of a dispenser with a cutting surface and rotatable wheel according to another embodiment of the present disclosure;

[0023] FIG. 15 is a second assembly view of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0024] FIG. 16 is a front view of the dispenser of FIG. 14 according to another embodiment of the present disclosure;

[0025] FIG. 17 is a rear view of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0026] FIG. 18 is a first side view of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0027] FIG. 19 is a second side view of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0028] FIG. 20 is a perspective view of the first housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0029] FIG. 21 is a front view of the first housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0030] FIG. 22 is a top view of the first housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0031] FIG. 23 is a side view of the first housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0032] FIGS. 24-27 are various views of a cutter of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0033] FIGS. 28-31 are various views of a case affixed to the first housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0034] FIG. 32 is a perspective view of the second housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0035] FIG. 33 is a top view of the second housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0036] FIG. 34 is a front view of the second housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0037] FIG. 35 is a side view of the second housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0038] FIGS. 36-39 are various views of a wheel arrangeable within the first housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0039] FIG. 40 is a perspective view of the first housing and case of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0040] FIG. 41 is a front view of the first housing and case of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0041] FIG. 42 is a rear view of the first housing and case of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0042] FIG. 43 is a bottom view of the case affixed to the first housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0043] FIG. 44 is a first side view of the first housing and case of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0044] FIG. 45 is a second side view of the first housing and case of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0045] FIG. 46 is a front view of the second housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0046] FIG. 47 is a rear view of the second housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0047] FIG. 48 is a bottom view of the second housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0048] FIG. 49 is a first side view of the second housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0049] FIG. 50 is a second side view of the second housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0050] FIG. 51 is a top view of the second housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0051] FIG. 52 is a perspective top view of the second housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0052] FIGS. 53 and 54 are top views of blanks of the first housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0053] FIGS. 55 and 56 are top views of blanks of the second housing of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0054] FIG. 57 is a top view of a blank of the case of the dispenser of FIG. 14 according to an embodiment of the present disclosure;

[0055] FIG. 58 is a side view of the cutting edge of the dispenser of FIG. 14 according to an embodiment of the present disclosure; and

[0056] FIG. 59 is a top view of a blank of a display box of the dispenser of FIG. 14 according to an embodiment of the present disclosure.

DETAILED DESCRIPTION OF EMBODIMENTS OF THE INVENTION

[0057] With reference now to the drawings and in particular FIGS. 1-59, embodiments of a dispenser or dispenser, which are generally designated by reference numeral 10, 100, will be described.

[0058] FIGS. 1-7 illustrate the dispenser 10 in an assembled state. The dispenser 10 generally a first housing or first dispenser 12 and a second housing or second dispenser 14, a cutting edge 16 extending from the first housing 12 and paper sheet 18 arranged within the first housing 12 and extendable and dispensable therefrom. The paper sheet 18 can, for example, be a roll of material, and can be comprised of rice paper (e.g. 13.5 GSM).

[0059] FIGS. 8-9 depict the first housing 12 in an unassembled state. FIGS. 10-11 depict the second housing 14 in an unassembled state. The first housing 12 is configured to be arrangeable within the second housing 14 such that the first housing 12 is nested within the second housing 14.

[0060] The first housing 12 is a one-piece structure that includes a first sidewall 20, a second sidewall 22, a third sidewall 24, a fourth sidewall 26, a top 28 with a tab 30 extending therefrom, a bottom 32 with a tab 34 extending therefrom and a plurality of projections 36 extending from the first, second and fourth sidewalls 20, 22, 26 to aid in the formation of the housing 12 from a flat sheet of material that is cut, pressed or the like. A plurality of fold lines 38 delineate the locations where the sidewalls 20, 22, 24, 26, projections 36, top 28 and associated tab 30 and the bottom 32 and associated tab 34 folded to form the first housing 12 or dispenser.

[0061] A strip 40 of material that includes the cutting edge 16 can be fixed to an inner surface 42 of the first sidewall 20 of the first housing 12, near an upper edge 44 of the first sidewall 20 such that the cutting edge 16 extends beyond the first sidewall 20. The cutting edge 16 includes a plurality of teeth 17 that are spaced equidistant from each other to form a serrated pattern. It is noted that while the cutting edge 16 is depicted as being serrated, the cutting edge 16 can be any known toothed and/or untoothed pattern. The strip 40 of material and/or cutting edge 16 can be comprised, for example, of a metal (e.g., aluminum), an alloy, composite, plastic (e.g., Polyvinyl chloride), etc. while the strip of material is shown fixed to the first housing 12, it could alternatively be fixed to the second housing 14.

[0062] The second housing 14 in an unassembled state. The second housing 14, which can be a one-piece structure, generally includes a base 46, a first sidewall 48, a second sidewall 50, a third sidewall 52, a fourth sidewall 54. The base 46 is delimited by fold lines 56 defining a first edge 58, a second edge 60, a third edge 62 and a fourth edge 64. The first sidewall 48 extends from the first edge 58 of the base 46 and has a first tab 66 that extends from a first side thereof, a second tab 68 that extends from a second side thereof and a third tab 70 that extends from a third side thereof. The first tab 66, the second tab 68 and the third tab 70 each extend from the first sidewall 48 about fold lines 56. The second

sidewall 50 extends from the second edge 60 of the base 46 and includes a tab 72 that extends therefrom about a fold line 56. The third sidewall 52 extends mirror opposite the first sidewall 48 from the third edge 62 of the base 46 and has a first tab 74 that extends from a first side thereof, a second tab 76 that extends from a second side thereof and a third tab 78 that extends from a third side thereof. The first tab 74, the second tab 76 and the third tab 78 each extend from the third sidewall 52 about fold lines 56. The fourth sidewall 54 extends mirror opposite the second sidewall 50 from the fourth edge 64 of the base 46 and includes a tab 80 that extends therefrom about a fold line 56.

[0063] The second housing 14 is formable by folding the sidewalls 48, 50, 52, 54, tabs 66, 68, 70 and projection along the fold lines. In an assembled state, the second housing includes an opening on one side with a cavity extending from the opening toward the base. The cutting edge 16 could be fixed to the first sidewall 48 or the second sidewall 50 of the second housing 14.

[0064] As shown in FIGS. 6 and 7, a plurality of tips 82 are fixably arranged to the first housing 12. The tips 82 are fixed to the bottom 32, for example, by an adhesive and to each other at one end thereof by an adhesive.

[0065] FIG. 12 shows a blank of a display box 84 for the dispenser 10.

[0066] As can be seen, for example, in FIG. 13, the first housing 12 is configured to nest within the cavity of the second housing 14. The plurality of tips 82 that can extend from the first housing 12 can also nest within the cavity, beneath the first housing 12 to allow for easy access to the tips 82.

[0067] FIGS. 14-17 illustrate the dispenser 100 in an assembled state. The dispenser 100 generally a first housing 102, a second housing 104, a cutting edge 106 extending from the first housing 102 and a wheel 108 that is arrangeable within an opening in the first housing 102. The paper sheet 109 can, for example, be a roll of material, and can be comprised of rice paper (e.g., 13.5 GSM). As can be seen in FIGS. 14-17, the first housing 102 is configured to nest within the cavity of the second housing 104.

[0068] FIGS. 18 and 19 depict assembly views of the first housing 102 and the second housing 104, which will both be described in more detail below.

[0069] FIGS. 20-23 depict various views of the first housing 102. The first housing 102 can be a one-piece structure that includes a first sidewall 120, a second sidewall 122 that is spaced from the first sidewall 120, a third sidewall 124 that extends transverse at one end between the first sidewall 120 and the second sidewall 122, a fourth sidewall 126 that extends transverse at and opposite end of the third sidewall 124 between the first sidewall 120 and the second sidewall 122, a top 128 that can include a tab 130 that extends therefrom, a base 132 that can include a tab 134 extending therefrom and a plurality of projections 136 that can extend from the first, second and fourth sidewalls 120, 122, 126 to aid in the formation of the housing 102 from a flat sheet of material that is cut, pressed or the like.

[0070] The fourth sidewall 126, as, for example, can be seen in FIGS. 20 and 23, includes a through opening 140 through which a wheel 142 can be arranged so that the wheel can be contactable with paper sheet 109 that is arranged within the first housing 102. Alternatively, the opening 140 could be formed in the third sidewall 124. The wheel 108 is rotatable and configured to aid in the advancement and

retraction of paper sheet 109 that is arranged within the first housing 102 and extendable and dispensable therefrom. As shown in FIGS. 36-39, the wheel 108 can include a cylindrical body 142, a rim 143 and a plurality of projections 145 that can aid in gripping and rotating the wheel.

[0071] As can be seen in FIGS. 40-45, extending from or affixed to the first housing 102 is a case or enclosure 144 that is located beneath the base 132 of the first housing 102 that is configured to house sheet paper such as tips 147. As illustrated in FIGS. 28-31, the case 144 includes a bottom wall 146, a top wall 148 that is spaced from the bottom wall 146, a first sidewall 150 that extends longitudinally between the top wall 148 and the bottom wall 146, a second sidewall 152 that is spaced from the first sidewall 150 and extends longitudinally between the top wall 148 and the bottom wall 146, and a third sidewall 154 that extends transverse between the first sidewall 150 and the second sidewall 152 to delimit one end of the case 144. In combination, the top wall 148, the bottom wall 146 and the sidewalls 150, 152, 154 form a cavity 156 with an opening at one end. The bottom wall 146 includes a recess 158 that extends from the open toward the third sidewall 154 to aid in contacting the sheet paper 109 housed in the cavity 156 and remove said sheet paper 109 therefrom.

[0072] A plurality of fold lines 138 delineate the locations where the sidewalls 120, 122, 124, 126, projections 136, top 128 and associated tab 130 and the bottom 132 and associated tab 134 folded to form the first housing 102.

[0073] Alternatively, the first housing 102 can be a pre-formed structure. In this embodiment, the tabs 130, 132 and projections 136 are not included as part of the first housing 102.

[0074] FIGS. 24-27 illustrate various views of the cutting edge 106. The cutting edge 106 is comprised of a strip of material can be fixed to an inner surface of the first sidewall of the first housing 102, near an upper edge of the first sidewall such that the cutting edge 106 extends beyond the first sidewall. The cutting edge 106 includes a plurality of teeth 107 that are spaced equidistant from each other to form a serrated pattern. It is noted that while the cutting edge 106 is depicted as being serrated, the cutting edge 106 can be any known toothed and/or untoothed pattern that is or would be known to a person of ordinary skill. The strip of material and/or cutting edge 106 can be comprised, for example, of a metal (e.g., aluminum), an alloy, composite, plastic (e.g., Polyvinyl chloride), etc.

[0075] As depicted in FIGS. 32-35 and 46-52, the second housing 104, which can be a one-piece structure, generally includes a base 160, a first sidewall 162 extending in a first direction from the base 160, a second sidewall 164 that is spaced from the first sidewall 162 extending from the base 160 in the first direction, a third sidewall 166 that extends from the base 160 in the first direction, transverse between the first sidewall 162 and the second sidewall 164 and a fourth sidewall 168 that is spaced from the third sidewall 166 and extends from the base 160 transverse between the first sidewall 162 and the second sidewall 164. Together, the first sidewall 162, the second sidewall 164, the third sidewall 166 and the fourth sidewall 168 form a cavity 170 in which the first housing 102 can be arranged. The first sidewall 162 and the second sidewall 164 can be taller in height than the third sidewall 166 and the fourth sidewall 168, and can extend longitudinally such that the second housing 104 can be rectangular in shape. The fourth sidewall 168 can include

a groove 172 extending therein. The groove 172 allows for the wheel 108 to extend past the second housing 104 without contacting the seconds housing 104 so as to be rotatable as desired. Alternatively, the second housing 14 can include an opening through which the wheel 108 can extend. The cutting edge 106 can be fixed to the second housing 104.

[0076] FIGS. 53 and 54 depict the first housing 102 in an unassembled state (e.g., a blank of material unfolded). As noted above, the first housing 102 includes a first sidewall 120, a second sidewall 122 that is spaced from the first sidewall 120, a third sidewall 124 that extends transverse at one end between the first sidewall 120 and the second sidewall 122, a fourth sidewall 126 that extends transverse at and opposite end of the third sidewall 124 between the first sidewall 120 and the second sidewall 122, a top 128 that can include a tab 130 that extends therefrom, a base 132 that can include a tab 134 extending therefrom and a plurality of projections 136 that can extend from the first, second and fourth sidewalls 120, 122, 126 to aid in the formation of the housing 102 from a flat sheet of material that is cut, pressed or the like.

[0077] FIGS. 55 and 56 illustrate a blank of material that is folded to form the second housing 104 that generally defines the base 160, the first sidewall 162, the second sidewall 164, the third sidewall 166, the fourth sidewall 168. The base 160 is delimited by fold lines 161 defining a first edge 163, a second edge 165, a third edge 167 and a fourth edge 169. The first sidewall 162 extends from the first edge 163 of the base 60 and has a first tab 170 that extends from a first side thereof, a second tab 172 that extends from a second side thereof and a third tab 174 that extends from a third side thereof. The first tab 170, the second tab 172 and the third tab 174 each extend from the first sidewall 162 about fold lines 161. The second sidewall 164 extends mirror opposite the first sidewall 162 from the second edge 165 of the base 160 and has a first tab 176 that extends from a first side thereof, a second tab 178 that extends from a second side thereof and a third tab 180 that extends from a third side thereof. The first tab 176, the second tab 78 and the third tab 180 each extend from the third sidewall 166 about fold lines 161. The third sidewall 66 extends from the third edge 167 of the base 160 and includes a tab 182 that extends therefrom about a fold line 161. The fourth sidewall 168 extends mirror opposite the second sidewall 164 from the fourth edge 165 of the base 160 and includes a tab 184 that extends therefrom about a fold line 156.

[0078] The second housing 114 is formable by folding the sidewalls 162, 164, 166, 168, tabs 178, 80, 182, 184 and projection along the fold lines. In an assembled state, the second housing 104 includes an opening on one side with a cavity extending from the opening toward the base in which the first housing 102 can be arranged.

[0079] FIG. 58 shows a side view of the cutting edge 108 and FIG. 59 shows a blank of a display box 186 for the dispenser 100.

[0080] Although this invention has been disclosed in the context of certain embodiments and examples, it will be understood by those skilled in the art that the invention extends beyond the specifically disclosed embodiments to other alternative embodiments and/or uses of the invention and obvious modifications and equivalents thereof. It is to be understood that the phraseology or terminology employed herein is for the purpose of description and not of limitation. In addition, while several variations of the embodiments of

the invention have been shown and described in detail, other modifications, which are within the scope of this invention, including, but not limited to, the substitutions of equivalent features, materials, or parts, will be readily apparent to those of skill in the art based upon this disclosure without departing from the spirit and scope of the invention.

What is claimed is:

1. A dispenser, comprising:

a first housing;

a cutting edge fixed to the first housing and extending therefrom; and

a second housing, the first housing being arrangeable within the second housing.

2. The dispenser of claim **1**, wherein the first housing includes a base, a first sidewall extending from a first side of the base, a second sidewall that is spaced from the first sidewall, extending from a second side of the base, a third sidewall extending from a third side of the base, between a first end of the first sidewall and a first end of the second sidewall, a fourth sidewall extending from a fourth side of the base, between a second end of the first sidewall and a second end of the second sidewall, and a top wall, the first sidewall, the first sidewall, the second sidewall, the third sidewall and the fourth sidewall defining a cavity therebetween with the top wall configured to extend over the cavity.

3. The dispenser of claim **2**, wherein a tab extends from the top wall to aid in securing the top wall and sealing the cavity.

4. The dispenser of claim **2**, wherein the cutting edge extends beyond one of the first sidewall and the second sidewall.

5. The dispenser of claim **2**, further comprising a wheel rotatably fixed to and extending from one of the third sidewall and the fourth sidewall.

6. The dispenser of claim **5**, wherein the wheel includes a cylindrical body and a rim at one end of the cylindrical body.

7. The dispenser of claim **5**, wherein the wheel includes a plurality of projections configured to aid in gripping and rotating the wheel.

8. The dispenser of claim **1**, wherein the second housing includes a base, a first sidewall extending from the base, a second sidewall that is spaced from the first sidewall and extending from the base, a third sidewall extending from the base between a first end of the first sidewall and a first end of the second sidewall to delimit a first end of the second housing and a fourth sidewall extending from the base between a second end of the first sidewall and a second end of the second sidewall to delimit a second end of the second housing, the first sidewall, the second sidewall, the third sidewall and the fourth sidewall defining a cavity that is open at the top of the second housing.

9. The dispenser of claim **8**, wherein the first sidewall and the second sidewall of the second housing extend a distance from the base that is further than a distance the third sidewall and the fourth sidewall extend from the base of the second housing.

10. The dispenser of claim **8**, wherein one of the third sidewall or the fourth sidewall of the second housing include a concave groove that extends from a top of the third sidewall or the fourth sidewall toward the base of the second housing.

11. The dispenser of claim **1**, wherein a sheet of tips are fixable to a base of the first housing and, in an assembled state nested between the first housing and the second housing.

12. The dispenser of claim **1**, further comprising an enclosure fixed to a base of the first housing that is configured to house sheet paper.

13. The dispenser of claim **1**, wherein the enclosure includes a bottom wall, a top wall that is spaced from the bottom wall, a first sidewall that extends longitudinally between the top wall and the bottom wall, a second sidewall that is spaced from the first sidewall and extends longitudinally between the top wall and the bottom wall and a third sidewall that extends transverse between the first sidewall and the second sidewall to delimit one end of the case, the top wall, the bottom wall and the sidewalls form a cavity with an opening at one end.

14. A method of forming a dispenser, comprising the following steps:

providing a first housing having a cutting edge fixed thereto and extending therefrom and a second housing with the first housing;

folding the first housing along fold line to create a first enclosure in which a roll of sheet material is arranged and extends therefrom;

folding the second housing along fold lines to create a second enclosure; and

arranging the first housing within the second housing.

15. The method of claim **14**, wherein the first housing includes a base, a first sidewall extending from a first side of the base, a second sidewall that is spaced from the first sidewall, extending from a second side of the base, a third sidewall extending from a third side of the base, between a first end of the first sidewall and a first end of the second sidewall, a fourth sidewall extending from a fourth side of the base, between a second end of the first sidewall and a second end of the second sidewall, and a top wall, the first sidewall, the first sidewall, the second sidewall, the third sidewall and the fourth sidewall defining a cavity therebetween with the top wall configured to extend over the cavity.

16. The method of claim **14**, further comprising a wheel rotatably fixed to and extending from the first housing.

17. The method of claim **16**, wherein the wheel includes a cylindrical body and a rim at one end of the cylindrical body to aid in advancing and retracting paper arranged in the first housing.

18. The method of claim **14**, wherein the second housing includes a base, a first sidewall extending from the base, a second sidewall that is spaced from the first sidewall and extending from the base, a third sidewall extending from the base between a first end of the first sidewall and a first end of the second sidewall to delimit a first end of the second housing and a fourth sidewall extending from the base between a second end of the first sidewall and a second end of the second sidewall to delimit a second end of the second housing, the first sidewall, the second sidewall, the third sidewall and the fourth sidewall defining a cavity that is open at the top of the second housing.

19. The method of claim **18**, wherein the first sidewall and the second sidewall of the second housing extend a distance from the base that is further than a distance the third sidewall and the fourth sidewall extend from the base of the second housing.

20. The method of claim 14, further comprising one of a sheet of tips fixable to a base of the first housing or an enclosure fixed to a base of the first housing that is configured to house sheet paper.

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