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Bailey

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(54) **METHODS OF USING A DEFENSE
STRUCTURE**

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5, 2019, now Pat. No. 10,648,777.

(60) Provisional application No. 62/626,563, filed on Feb.
5, 2018.

(51) **Int. Cl.**

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B32B 3/30 (2006.01)
B32B 3/06 (2006.01)
F41H 5/24 (2006.01)

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CPC **F41H 5/023** (2013.01); **F41H 5/0407**
(2013.01); **B32B 3/06** (2013.01); **B32B 3/30**
(2013.01); **B32B 2307/558** (2013.01); **B32B**
2571/02 (2013.01); **F41H 5/0464** (2013.01);
F41H 5/0478 (2013.01); **F41H 5/24** (2013.01);
Y10T 428/24174 (2015.01)

(58) **Field of Classification Search**

CPC Y10T 428/24174; Y10T 29/49826; F41H
5/026; F41H 5/023; F41H 5/0471; B32B
3/14; B32B 3/16

See application file for complete search history.

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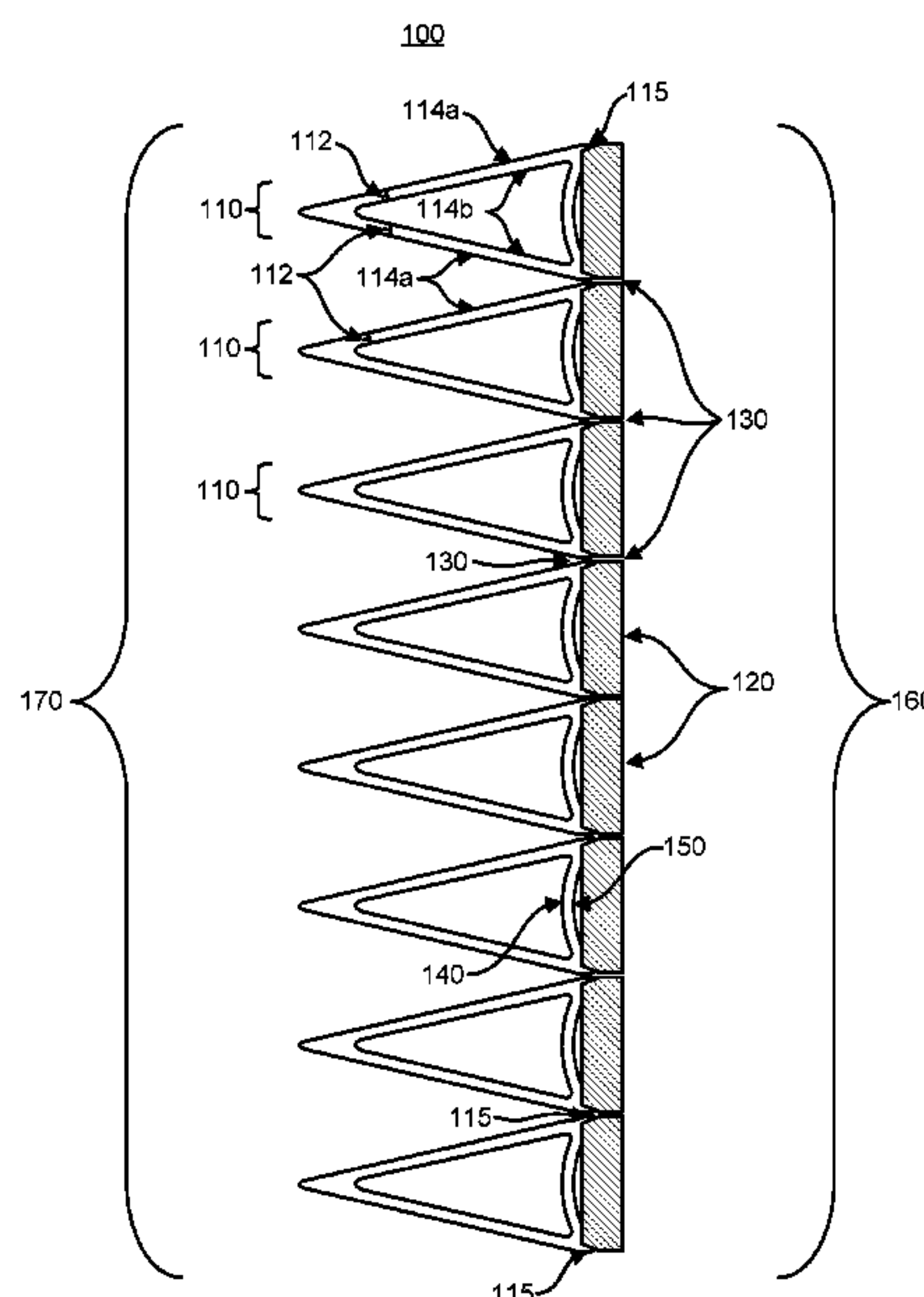
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(57) **ABSTRACT**

A ballistic resistant material and structure and methods for
allowing and preventing projectiles from passing through
the ballistic resistant defense structure. The ballistic resistant
defense structure involves a ballistic multilayer arrangement
comprised of V-Profiles **100** which are further comprised of
V-shaped wedges arranged adjacent to each other, spaced
slightly apart, with gaps. The gaps between the V-shaped
wedges expand or contract depending on which side of the
V-Profile a projectile strikes.

12 Claims, 9 Drawing Sheets



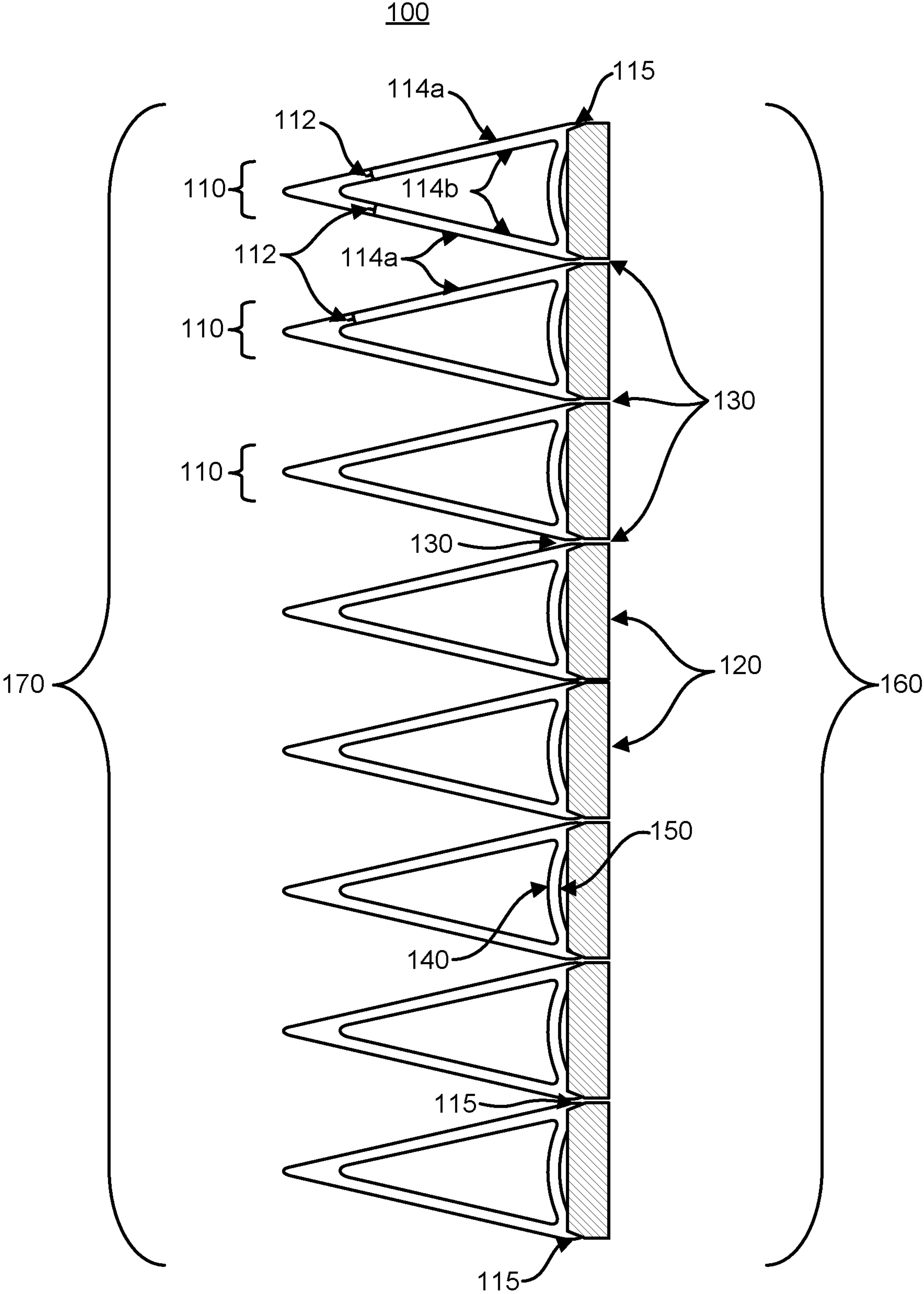


FIG. 1

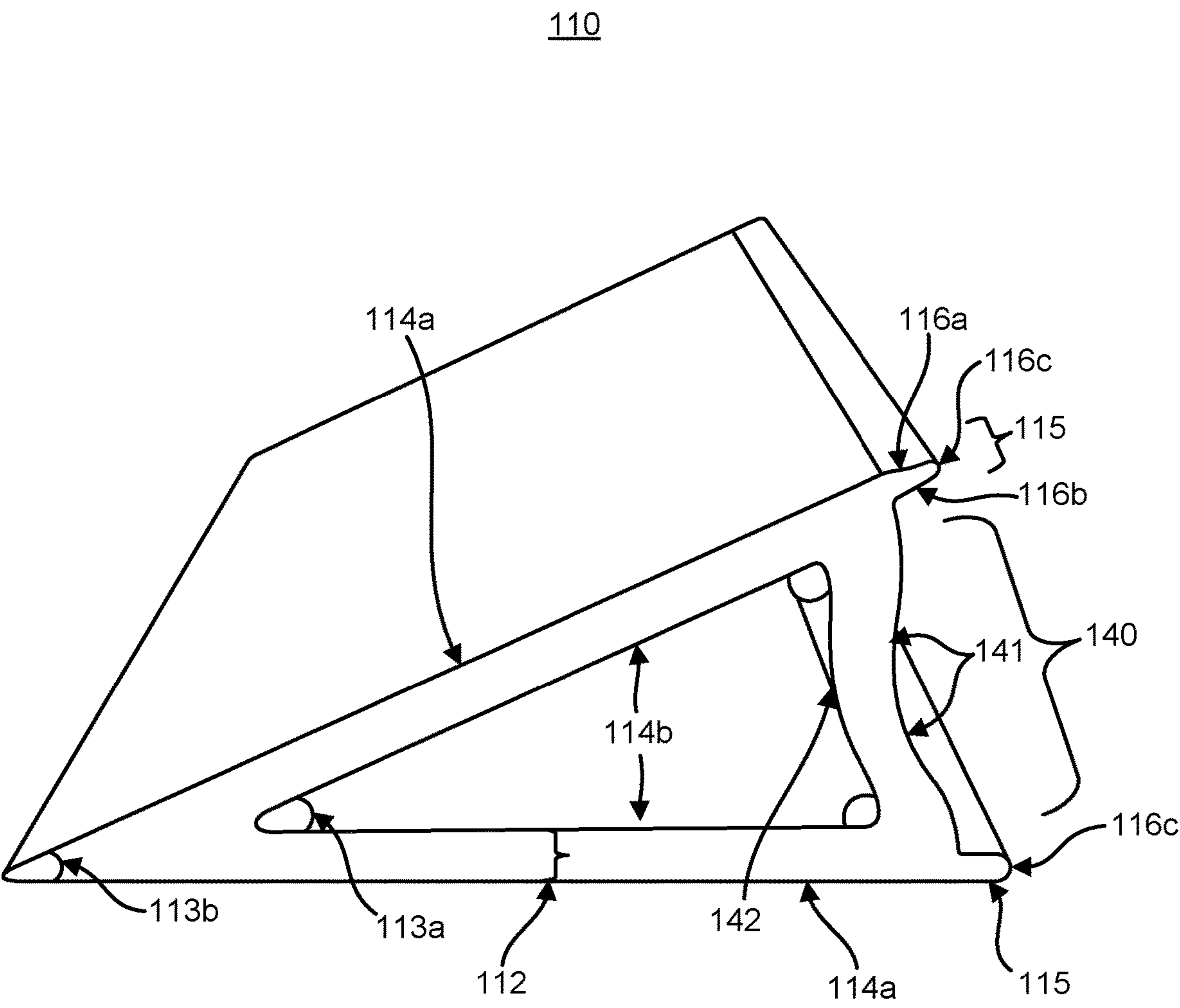


FIG. 2A

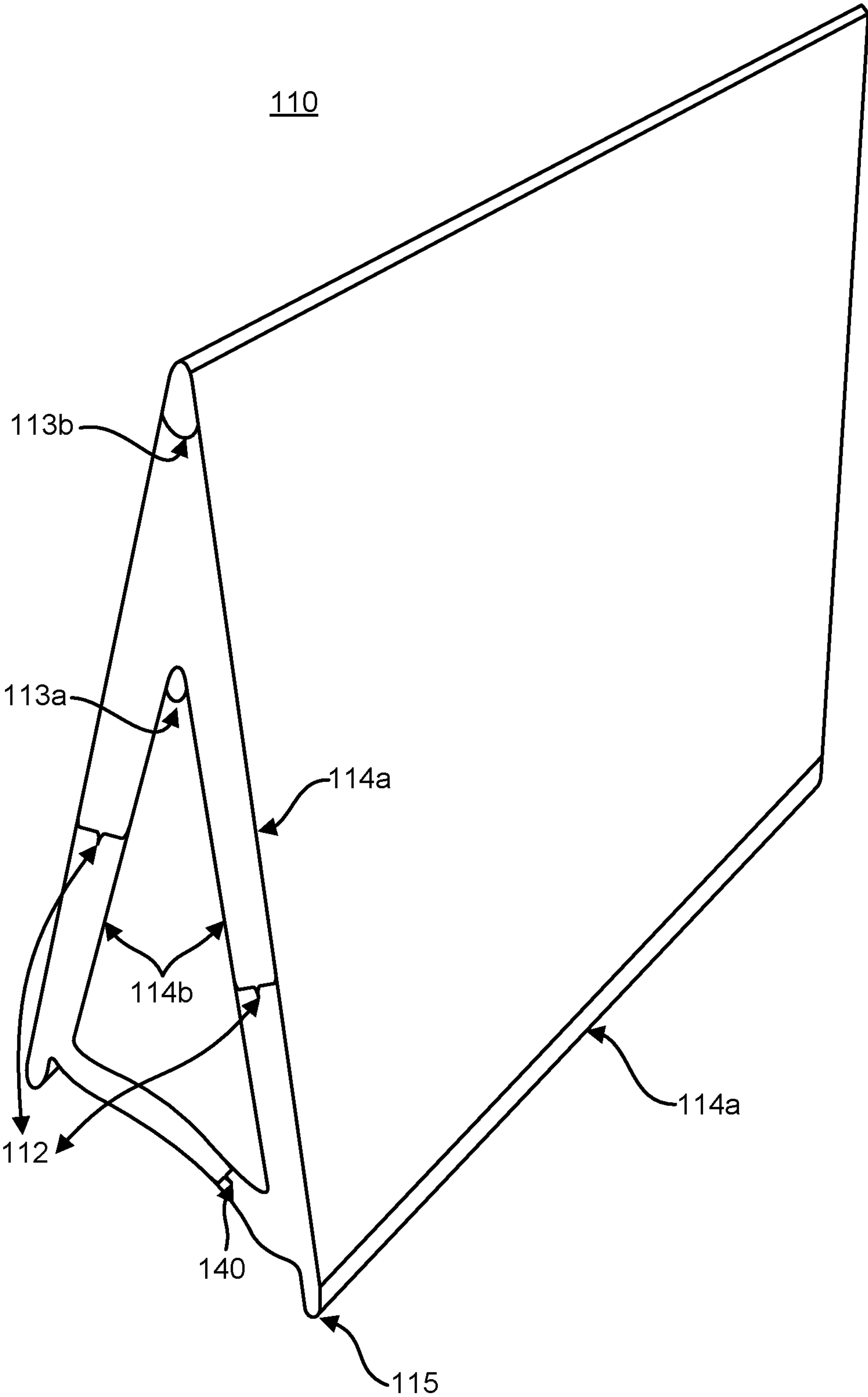


FIG. 2B

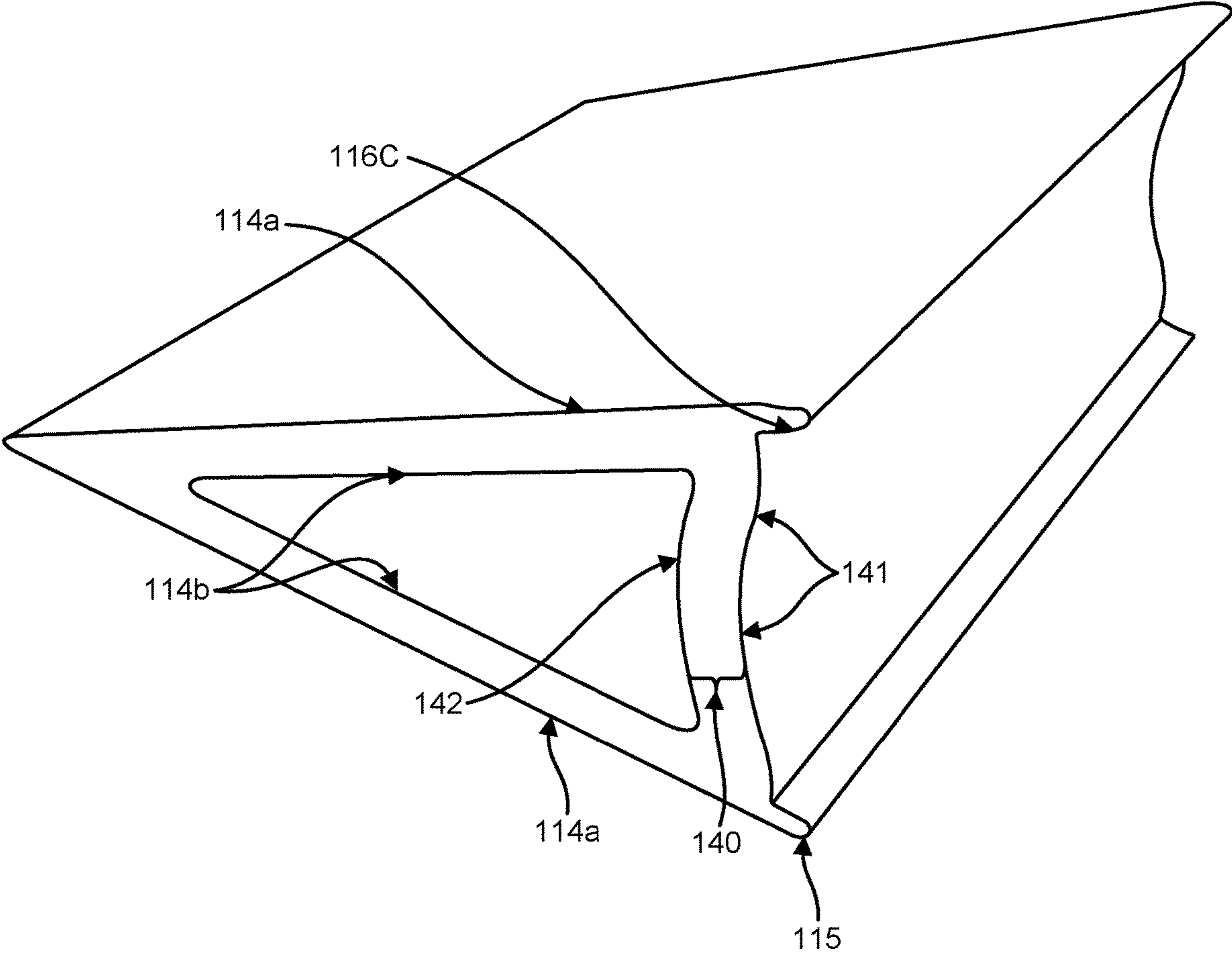


FIG. 3

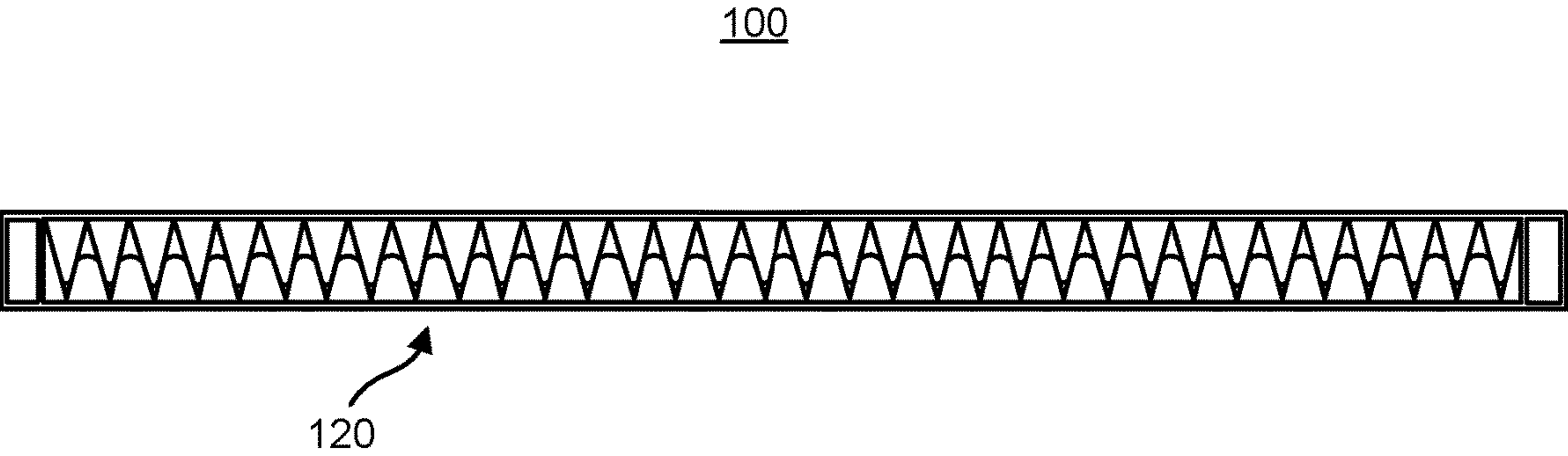


FIG. 4A

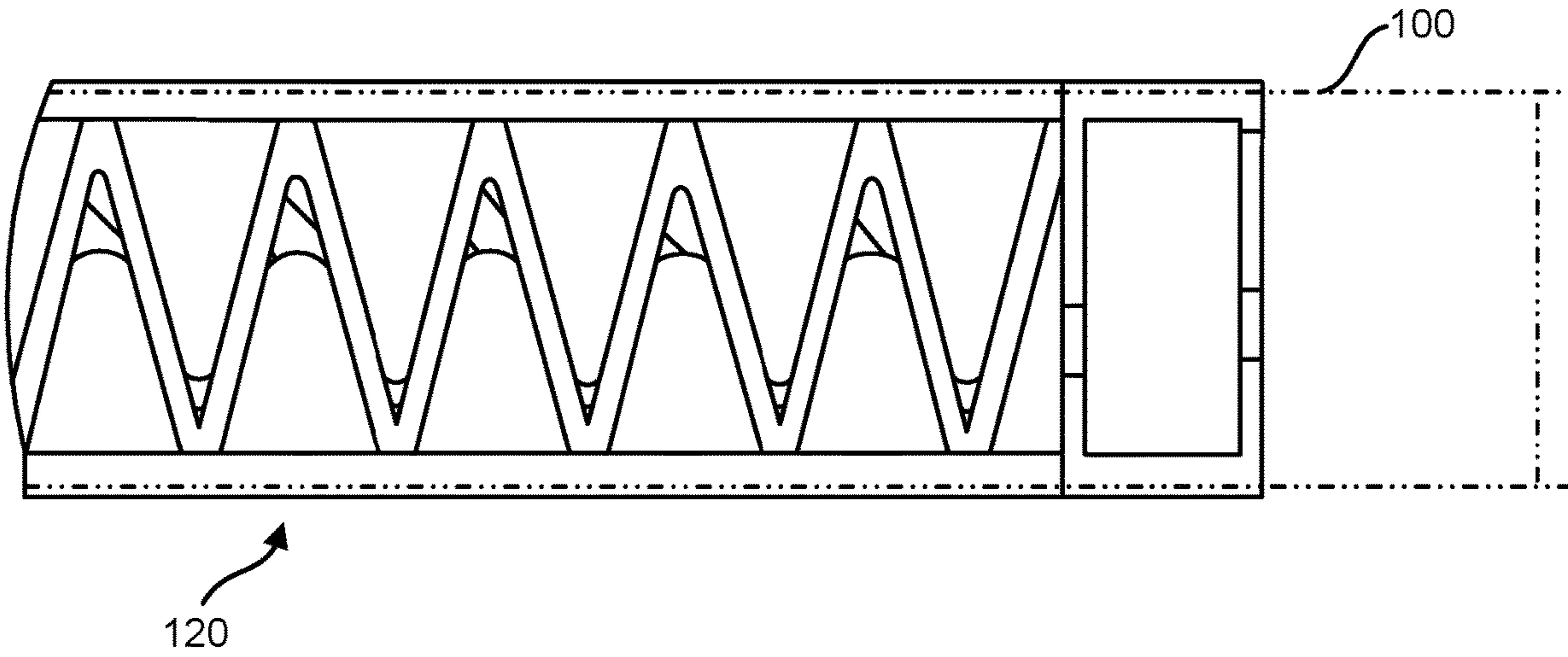


FIG. 4B

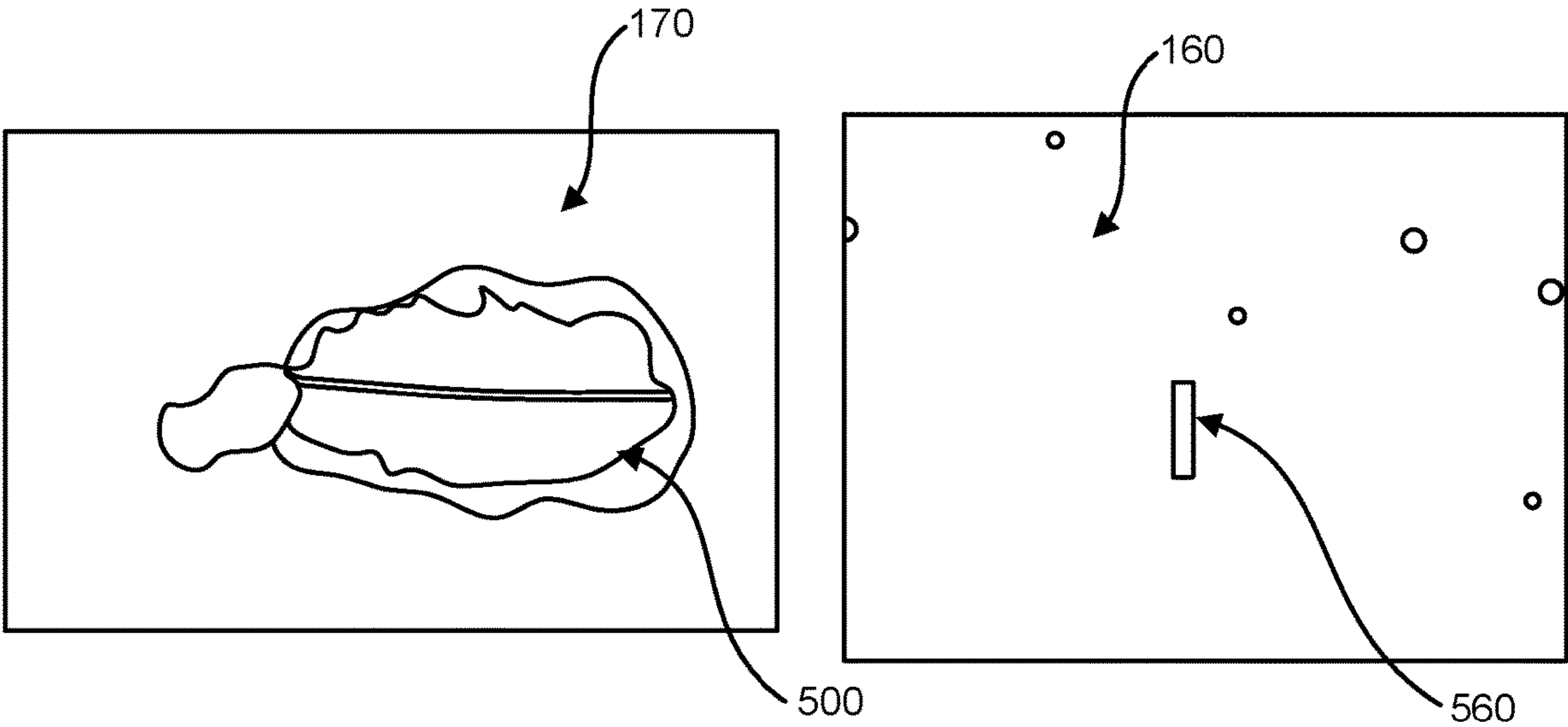


FIG. 5A

FIG. 5B

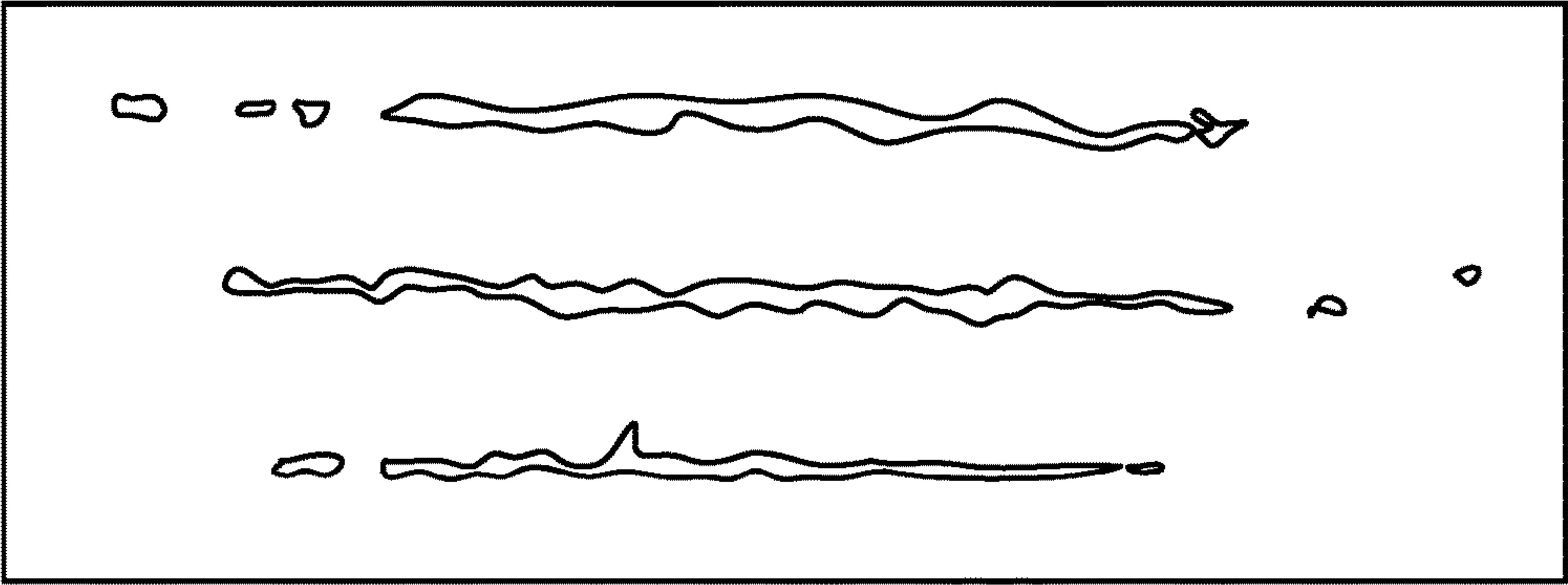


FIG. 5C

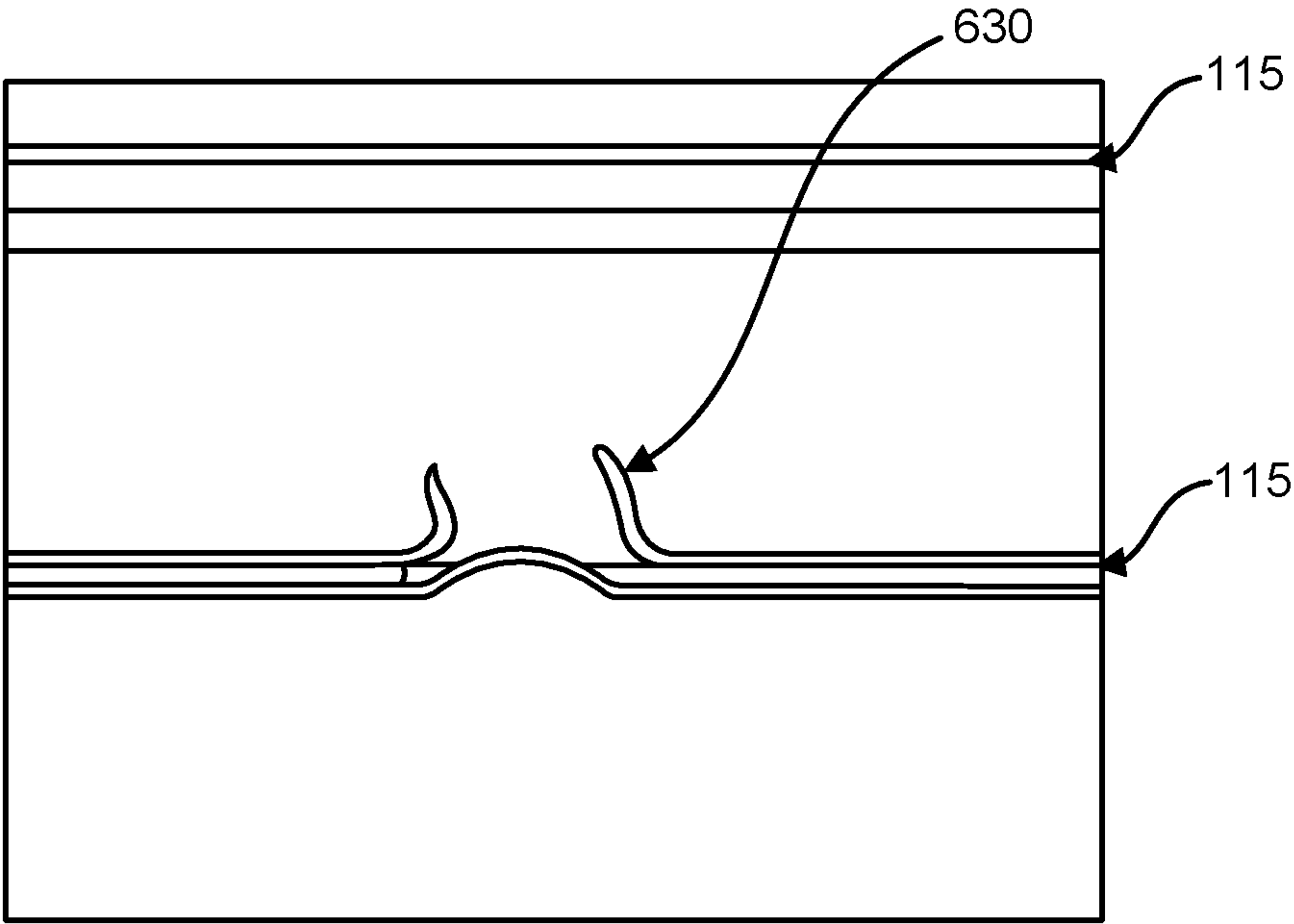


FIG. 6A

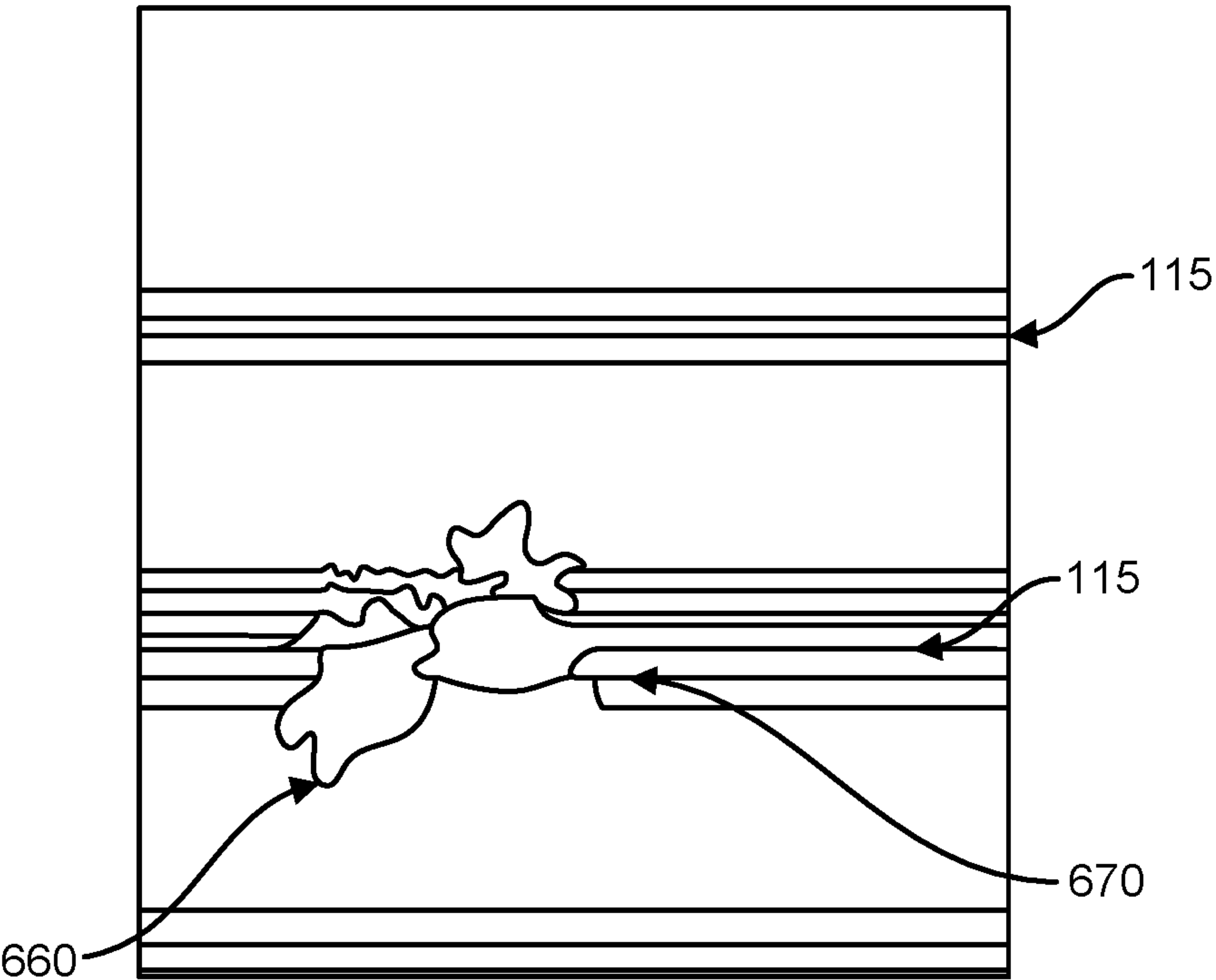


FIG. 6B

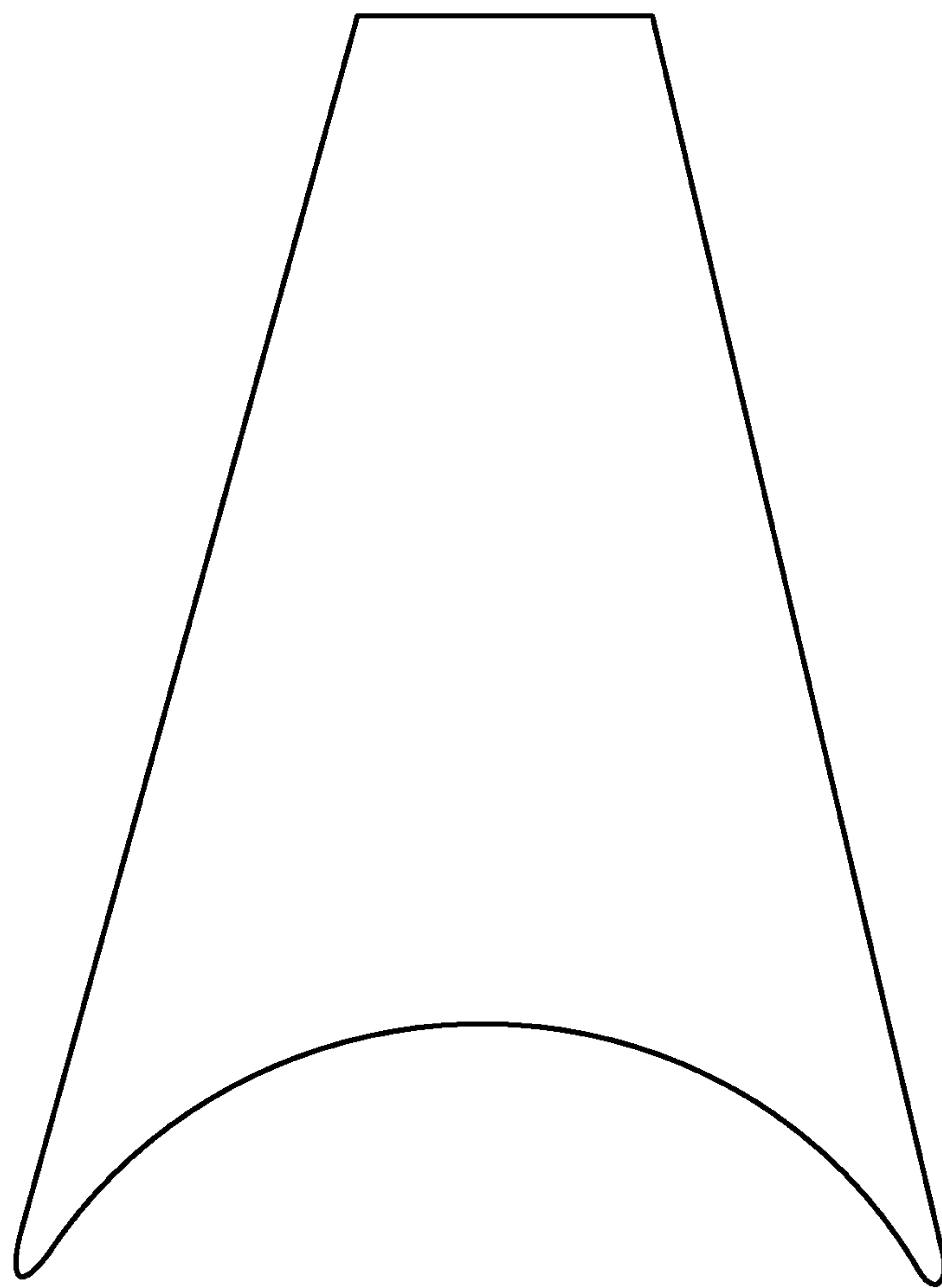


FIG. 7

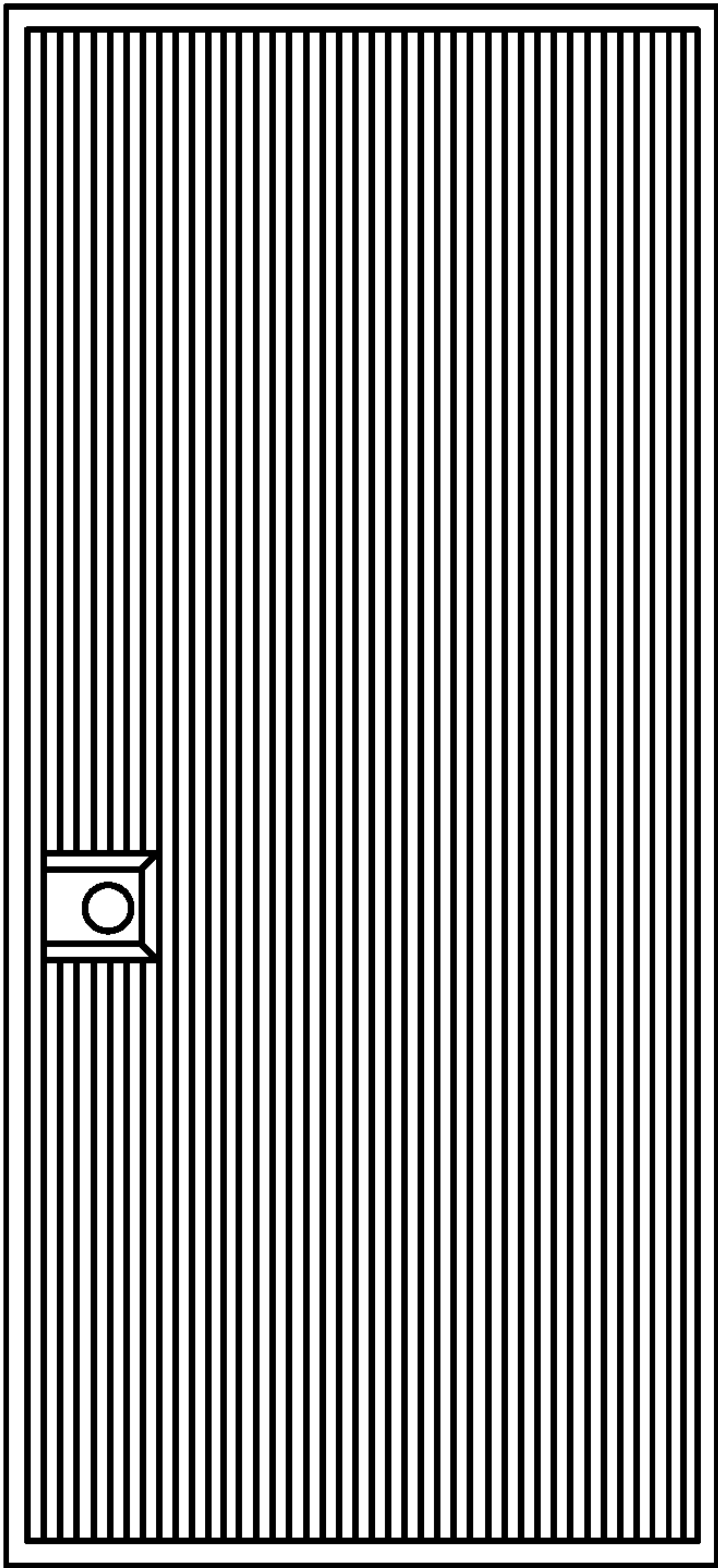


FIG. 8A

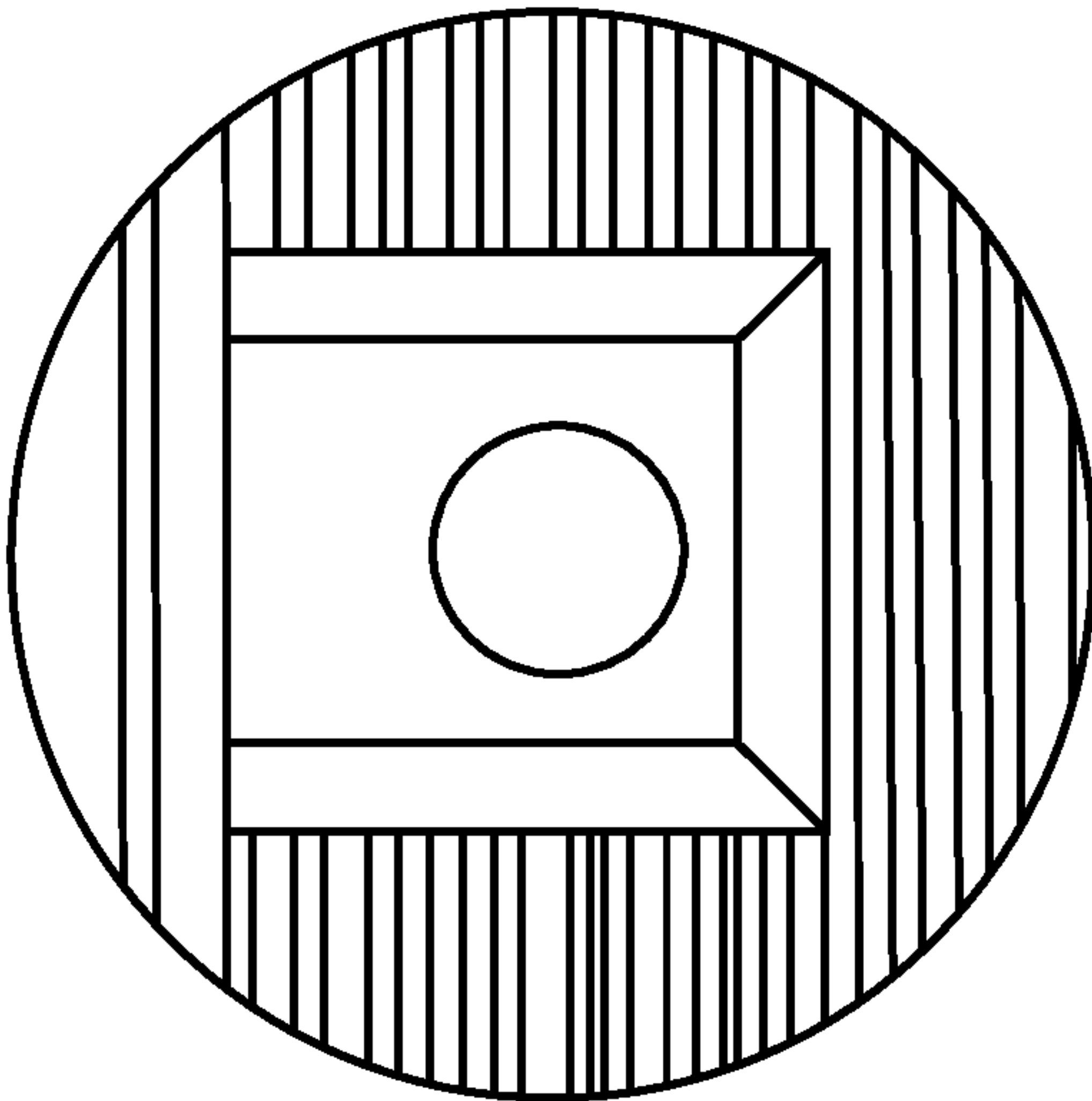


FIG. 8B

1

**METHODS OF USING A DEFENSE
STRUCTURE****CROSS REFERENCE TO RELATED
APPLICATIONS**

The present non-provisional patent application is a divisional application which claims priority of an earlier-filed patent application titled PRO-ACTIVE DEFENSE STRUCTURE, Ser. No. 16/268,054, filed Feb. 5, 2019, now U.S. Pat. No. 10,648,777, which claims priority of an earlier-filed provisional patent application titled PROACTIVE DEFENSE STRUCTURE, Ser. No. 62/626,563, filed Feb. 5, 2018. The contents of the identified earlier-filed applications are hereby incorporated by reference into the present application.

**FIELD OF THE DISCLOSED SUBJECT
MATTER**

The present invention and disclosed subject matter relate generally to ballistic resistant materials and structure and, more particularly, to ballistic multilayer arrangements that resist various projectiles on one side of the arrangement while allowing other projectiles to pass easily through on another side of the arrangement.

BACKGROUND

Conventional safe rooms and other ballistic resistant structures are typically constructed of massive concrete or extremely costly materials, high density fiberglass panels are also being used. These types of materials inhibit projectiles from passing through the wall or door structure in either direction. The idea is to inhibit direct access to a victim from an assailant. However, in this standoff defenders cannot come and go as they wish. The safe room itself becomes a prison from where there is no escape and from where a defender cannot fire back. The defender is temporarily safe, but is no threat to the assailant and is held captive by the assailant within the "safe" room. This allows the assailant additional time to take drastic, pro-active measures to defeat the structure of the safe room. Moreover, safe rooms are typically located in a remote location within a building or home. During an invasion of the property a defender and others must get to the safe room in the remote location before being harmed or captured.

Current systems seldom provide entire rooms within a home that are ballistic resistant; nor entire commercial structures; nor can current systems provide ballistic resistant external panels of automobiles, armored vehicles, and/or aviation equipment or vehicles. Furthermore, current systems cannot enable defenders or victims to fire projectiles at assailants standing on the outside or opposite side of a "bullet proof" room or defense structure, thereby enabling a defender to no longer be held captive in safe rooms, but enabling the defender to pro-actively pick and choose whether they want to end the standoff with deadly force or with disabling effects on the assailants.

SUMMARY

The present invention is directed to ballistic resistant defense structures comprising V profiles, which further comprise V-shaped wedges arranged sideways, adjacent to each other in a V column-type configuration; wherein the V-shaped wedges are spaced slightly apart with slight gaps

2

between each V-shaped wedge; and an outside ballistic receptor or deflector of the profile that runs flush against and parallel to the length of the V column-type configuration.

In one embodiment of this invention, the V-shaped wedges are arranged straight up side by side in horizontal or vertical V row-type configurations. In another embodiment, the outside ballistic receptor of the profile is comprised of fiberglass ballistic materials, while in other embodiments the outside receptor of the profile is comprised of other polymers and/or viscous materials.

In a further embodiment, the fiberglass side of the defense structure has the capability to prevent a projectile that is shot from the fiberglass side towards the V-profile side, from passing all the way through the defense structure. In some embodiments the defense structure absorbs a portion of or the entire projectile and in other embodiments the defense structure deflects the projectile entirely.

In yet a further embodiment, the V-profile side of the defense structure has the capability to allow a projectile that is shot from the V-profile side towards the fiberglass side, to pass through the defense structure. The V-shaped wedges yield to the force of the projectile as it impacts the V-profile, creating bigger cavities for immediate following projectiles to also pass through. Additionally, the defense structure is partially self-healing when projectiles impact and enter the defense structure from the V-profile side and exit via the fiberglass side.

In embodiments of the invention, the slight gaps between each V-shaped wedge are approximately 0.0-0.50 inches wide in their normal and un-impacted state. Once a projectile is shot from the V-profile side, through the V-profile side, and towards the fiberglass side, the V-profile shaped wedges yield to the force of the projectile and create wider gaps that are approximately 0.01-0.50 inches wide.

In a further embodiment, the top edges, or wedge prongs, of the V in the V-shaped wedge are bent inwards at an angle slightly, towards the center of the V-shaped wedge. In another embodiment, the material lying across the top of the V-shaped wedge is slightly and concavely curved inwards towards the bottom tip of the V, forming a slight hollow space in between the outside receptor of the V-profile and each V-shaped wedge. In further embodiments, the material lying across the top of the V-shaped wedge is a flat hardened material that lays parallel and flush against the outside receptor of the V-profile and each wedge is filled with a ballistic deflecting polymer.

In yet another embodiment of the invention, the sidewalls of the V-shaped wedges have the capability to flex inward or outward.

In yet another embodiment of the invention, it is recommended that the ballistic resistant defense structure be replaced after being shot at once or after going through repeated back and forth fire.

Thus an object of the present invention is to provide a defense structure that deflects or absorbs and stops ballistics from passing through the defense structure on one side, while allowing projectiles fired from the opposite side to pass through the defense structure.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention will now be illustrated in more detail, but not limited, by reference to the specific embodiment shown in the accompanying drawings, with greater emphasis being placed on clarity rather than scale:

FIG. 1 is a perspective view of a V-Profile in a column-type configuration;

FIG. 2(a) is a perspective view of a V-shaped wedge laying sideways with the top of the V-shaped wedge curved inwards slightly towards the bottom end of the V;

FIG. 2(b) is another perspective view of a V-shaped wedge standing up;

FIG. 3 is another perspective view of a V-shaped wedge laying sideways;

FIG. 4(a) is a perspective view of a V-Profile in a horizontal V row-type configuration;

FIG. 4(b) is a zoomed in perspective view of 5 V-shaped wedges from the V-Profile pictured in FIG. 4(a);

FIG. 5(a) depicts an interior wall showing a large entry hole of a shot;

FIG. 5(b) depicts an exterior of the wall in 5(a), showing the exit pattern when the V-profile is set up vertically in an V-column type configuration and the vertical alignment of the exit shot;

FIG. 5(c) depicts an exterior of the wall in 5(a), showing the exit pattern when the V-profile is set up horizontally in a V-row type configuration and the horizontal alignment of the exit shot.

FIG. 6(a) depicts a two or more V-shaped wedges placed side by side with an obstruction from being struck by a projectile; and

FIG. 6(b) depicts an exemplary projectile stop even with a dead center strike to a gap in the V profile.

FIG. 7 is a perspective of a hardened material insert used to deflect a projectile;

FIG. 8(a) depicts a door comprised of a ballistic resistant defense structure;

FIG. 8(b) depicts a zoomed in view of the ballistic resistant defense structure details on the door depicted in FIG. 4.

DETAILED DESCRIPTION

It is to be understood that while certain aspects of the disclosed subject matter have been shown and described, the disclosed subject matter is not limited thereto and encompasses various other embodiments and aspects. Furthermore, certain terminology will be used in the following description, and are shown in the drawings, and will not be limiting. For example, up, down, front, back, right and left refer to the disclosed subject matter as orientated in the view being referred to. The words, "inwardly" and "outwardly" refer to directions toward and away from, respectively, the geometric center of the aspect being described and designated parts thereof. Forwardly and rearwardly are generally in reference to the direction of travel, if appropriate. Said terminology will include the words specifically mentioned, derivatives thereof and words of similar meaning.

The disclosed subject matter will now be described with reference to the drawing figures, in which like reference numerals refer to like parts throughout. For purposes of clarity in illustrating the characteristics of the present disclosed subject matter, proportional relationships of the elements have not been maintained in the figures. In some cases, the sizes of certain small components have been exaggerated for illustration.

The present invention and disclosed subject matter relate generally to ballistic resistant defense structures and more particularly to ballistic multilayer arrangements that defend against ballistics and other projectiles on one side of the arrangement while allowing ballistics or other projectiles to pass through on another side of the arrangement.

In FIG. 1 a perspective side view of an embodiment of a V-Profile 100 in a column-type configuration according to

the invention is represented. The first component of the V-Profile 100 comprises V-shaped wedges 110 arranged sideways adjacent to each other in a V column-type configuration. FIG. 2(a) depicts a close up end view of the V-shaped wedge 110. FIG. 2(b) depicts a close up side view of the V-shaped wedge 110. Each V-shaped wedge 110 is comprised of two rectangular side walls 112 that connect to each other at one of the longer sides of each of the two rectangular side walls 112, to form a V. The side walls 112 are approximately 0.03-0.250 inches thick. Therefore once connected to form a V, the V connection area of the two side walls 112 has an inner radian 113(a) and an outer radian 113(b). The inner radian 113(a) is approximately R.040-R.060 inches; and the outer radian 113(b) is approximately R.021-R.041 inches. Again because of the thickness of the side walls 112, once connected to form a V, the measurements for the outside perimeter walls 114(a) of the V-shaped wedge 110 varies from the measurements for the inner perimeter walls 114(b) of the V-shaped wedge 110. The measurements for the outer side walls 114(a) are each approximately 3.00-3.054 inches high and approximately 47-49 inches long. The measurements for the inner side walls 114(b) are each approximately 1.887-1.907 inches high and approximately 47-49 inches long. Extending out from the longer, free/non-connected side of each of the side walls 112 are protruding horns or wedge prongs 115. The wedge prongs 115 are approximately 0.0625-0.167 inches high and approximately 47-49 inches long, and taper in thickness from 0.062-0.092 inches thick to 0.010-0.030 inches thick. The thicker parts of the wedge prongs 115 are the ends of the prongs 115 that are connected to and/or extend from the sidewalls 112, and the wedge prongs 115 narrows in thickness as it extends out. The outer walls 116 (a) of the wedge prongs 115 bend inwards slightly towards the center of the V-shaped wedge 110 at approximately R.010-R.030 inches. The inner walls 116 (b) of the wedge prong 115 bend outward slightly away from the center of the V-shaped wedge 110 at approximately 4 deg.-8 deg. The outer 116 (a) and inner 116 (b) walls of the wedge prong 115 narrow in to a tip 116 (c) that has a radian of approximately R.005-R.020 inches.

The second component of the V-Profile 100 comprises the outside receptor 120 of the profile. In one embodiment, the fiberglass ballistic material is set within the outside receptor 120. The first and second components make up the core of objects created, such as doors, walls, floors, vehicle components, etc. In another embodiment the two components make up a typical residential or commercial wall section 3.250-4.750 inches thick or greater (not including the exterior material like a drywall, just the V-profile components).

FIG. 3 is a close up end view of the V-shaped wedge 110. Each V-shaped wedge 110 is also comprised of a rectangular material 140 that is inserted at the top opening of each V-shaped wedge 110 that is slightly and concavely curved towards the bottom tip of the V-shaped wedge 110. The material 140 is approximately 0.170-0.271 inches thick; the outer wall 141 is approximately 1.420-1.440 inches wide and 47-49 inches long (the same length of the sidewalls 112); and the inner wall 142 is approximately 0.884-1.004 inches wide and 47-49 inches long. The material 140 is placed in between the opening of the V-shaped wedge 110 (i.e. between the non-connected ends of the side walls 112). The length of the longer sides of the rectangular material 140 is matched up with the longer sides of the non-connected sidewalls 112. The outer wall 141 of the material 140 extends out from the outer sidewall 114(a) towards the center of the V-shaped wedge 110 at a straight line for

5

approximately 0.264-0.293 inches angled at approximately R0.010-R0.030 inches from the outer side wall **114** (a) right where the outer side wall **114** (a) connects to the wedge prongs **115**. The outer wall **141** then arcs slightly and concavely towards the center of the V-shaped wedge **110** at an arc of approximately R1.320-R1.340 inches, for a length of approximately 0.794-0.994 inches, before extending back out in a straight line for approximately 0.264-0.293 inches and connecting to the opposite outer side wall **114**(a) at an angle of approximately R0.010-R0.030 inches. The inner wall **142** connects with one of the inner side walls **114**(b) at a radian of approximately R.040-R.060 inches. The inner wall **142** then curves slightly and concavely downward towards the center of the V-shaped wedge **110** as it extends out for a width of approximately 0.794-0.994 inches towards the opposite inner side wall **114**(b); connecting to that inner side wall **114**(b) at a radian of approximately R.040-R.060 inches. The radian of the concave arc of the inner wall **142** is approximately R1.507-R1.527 inches.

In other embodiments, the material **140** is made of different thickness, different arc degrees, and/or different series of continuous convex and/or parabolic curves depending on the type of ballistic and/or caliber of gun intended for the defense structure to resist.

In another embodiment, the material **140** is a hardened flat/rigid material with no arc and each V-shaped wedge is filled with a ballistic deflecting polymer. The V-shaped wedges **110** are spaced slightly apart from each other with slight gaps **130** between each V-shaped wedge **110**. In yet another embodiment, the slight gaps **130** are approximately 0.0-0.50 inches wide.

The V-Profile **100** also comprises an outside ballistic receptor **120** of the profile that runs flush against and parallel to the length of the column of V-shaped wedges **110**. FIG. 4(a) depicts an alternate body of the invention, wherein the V-shaped wedges are arranged side by side in a V row-type configuration. In an embodiment of the invention the ballistic defense structure comprises V-Profiles **100** comprising V-shaped wedges **110** wherein the outside receptor **120** is comprised of fiberglass ballistic materials.

In one embodiment of this invention, the material **140** at the top of each V-shaped wedge **110** is flat and lays parallel and flush against the outside receptor **120** as depicted in FIG. 4(b). A hardened material is placed on the top of each V-shaped **110** and the V-shaped wedge **110** is filled with filler materials such as polymers and polycarbons. Alternatively in another embodiment, the material **140** at the top of each V-shaped wedge **110** is concavely curved slightly towards the bottom tip of the V, as shown in FIG. 1, forming a slight hollow space **150** in between the outside receptor **120** and each V-shaped wedge **110**. In an embodiment of this invention, the V-shaped wedges' **110** side walls **112** have the capability to flex or arc both concavely and convexly. In another embodiment, once the V-shaped wedges **110** are stacked or placed next to each other with a slight gap **130** between the wedge prongs **115**, a considerable amount of material from the wedge prongs may fill up the junction or gap between each V-shaped wedge **110**. See FIGS. 6(a) and 6(b). In an embodiment the slight gap **130** is approximately 0.0-0.50 inches wide.

In another embodiment of this invention, as shown in FIGS. 5(a) and 5(b), when a projectile is shot from a shotgun and impacts the interior V-shaped wedges side **170**, towards and through the exterior outside receptor of the profile side **160**, the side walls **112** of the V-shaped wedges **110** yield to the force of the projectile, creating wider gaps **130** for an immediate following projectile to pass through. When the

6

projectile is expelled from the weapon, it strikes the V-shaped wedge side **170**, penetrates the interior wall surface **170**, and is immediately guided into the V columns or V rows **100** of V-shaped wedges **110** creating respective vertical **560** or horizontal rows of ballistics which can slip through the gaps **130** between the V-shaped wedges **110**. In an embodiment of the invention, when the projectile pushes against the gap **130** and the adjoining side walls **112** yield to the force of the projectile, an effective gap **130**, approximately 0.010-0.50 inches wide is created for the subsequent projectiles to pass through. In effect, the first line of shots **560** open the door for subsequent shots to pass through. These factors maximize the effective force of the following shot. In one embodiment, a 12 gauge shotgun is used on the inside **170** of the defense core **110** to fire through the core; and the 12 gauge shell has optimal capacities. In another embodiment, a 12 gauge shotgun using number 6-8 shot with a wide pattern discharge is optimal.

As shown in FIGS. 5(a) and 5(b), in another embodiment, when a projectile is shot from the V-shaped wedges side **170**, towards and through the outside receptor of the profile side **160**, the defense structure has a self-healing capability. The slight gaps **130**, the entrance hole **500** in the V-profile **100** side, and the cavity and widened gap created by the projectile traveling through the defense structure, are all self-healing. The V profile **100** can also be referred to or used interchangeably with "the defense structure", the "V profile system", or the "Defense Structure System." One or more V profiles make up a defense structure. The V-profile **100** and the material that comprise it return to their pre-ballistic state sufficient to maintain effectiveness or became completely ballistic resistant again. A defense structure system **100**, in the case of wall construction, has the ability to be constructed in standard 3'x4' smaller or larger modular component panels, thus, providing for quick and easy repairs, and or replacement as needed.

In an embodiment of the invention, the defense structure **100** is referred to as a Pro-Active Defense Structure because it enables a defendant to fire projectiles at an assailant standing on the other side of the Pro-Active Defense Structure, in a "one way" pattern, if the defendant actively chooses to. The effective use of the simple geometric shape of a V, placed side by side VVVV and then interlaced together, creates the geometry of the "One Way" ballistic resistant panel system **100**. Use of Polymers and/or viscous materials placed within the external wedge of the V completes the critical "One Way" effect of the Pro-Active Defense Structure system. The defendant is able to proactively choose when they want to end a standoff with deadly force or disabling effects on their assailants. This action of the defendant shooting through the wall can be repeated over and over at the defender's option with little or no degradation to the structural integrity of the Pro-Active Defense Structure **100**.

In addition, in other embodiments the Pro-Active Defense Structure is used for external panels of automobiles, trucks, armored vehicles, military vehicles, and aviation. Hijacking an armored car would be virtually impossible with the ability of the security agent inside the cargo area, no longer held captive, to shoot forward into a driver's area. Equipping the cockpit door of commercial airplanes with the Pro-Active system helps prevent the possible security breach of the cockpit. A small caliber weapon such as a .22 Caliber hand gun loaded with bird shot is effective to easily blind or disable the assailant, with the added value of dispersing its energy before perforating the outer wall of the pressure

chamber. The low caliber weapon is effectively fired at an upward angle, greatly minimizing the danger to the crew or passengers.

In another embodiment of the present invention, a projectile fired at the outside receptor of the profile side **160**, will be absorbed into the fiberglass material **120**. The design of the V profile **100** further enhances the effectiveness of the fiberglass material **120**. The walls **112** of the V-shaped wedges and the material **140** at the top of the V-shaped wedge **110** (i.e. the outer surface shapes of the V-shaped wedge **110**) have the capabilities to remain flat/straight or flex and arc both concavely and convexly; serving to guide projectiles toward the center of the V-shape wedge **110**. This provides for maximum energy absorption, which traps and stops the projectile within the viscous material or hollow void **114(b)** and **142**. In another embodiment, the side walls **112** have the ability to flex inward or outward depending on the direction of the projectile force, causing energy to be absorbed. In an embodiment, the slight convex hollow **150** under the fiberglass base **120**, allows the fiberglass material to flex inward when the projectile energy strikes the material. This allows some of the projectile's energy to be absorbed decreasing the projectile's velocity. In another embodiment, when a projectile strikes outside receptor of the profile side **160**, the fiberglass material **120** expands and pushes against the adjoining V-shaped wedges **110**, closing the gap **130** thus expending some additional energy. In yet another embodiment, various thickness of fiberglass material **120** are used and the various fiberglass thickness are capable of absorbing various calibers and charge loads of typical ballistics (i.e. $\frac{7}{16}$ inches thick material will absorb full metal jacket 9 mm forces).

In another embodiment of the present invention, a hard top **140** is placed at the top of the V-shaped **110** and, and is concavely curved towards the point/center of the V-shaped wedge **110**, and forms a slight convex hollow **150** between the V-shaped wedge **110** and the outer receptor of the profile **120**. This slight convex hollow allows the outside receptor of the profile to flex inward when a projectile strikes the receptor of the profile **120**. This will allow some of the projectile's energy to be absorbed, decreasing its velocity. Additionally, as depicted in FIG. 6(a), when two or more V-shaped cavities **110** are placed side by side with a slight gap **130** in between the wedge prongs **115** of the two V-shaped wedges **110**, a considerable amount of wedge prong/horn material is formed at the gap **130**. This creates a high degree of resistance to penetration. In an embodiment, when a projectile shot from and towards the outer receptor side **160**, strikes the V profile **100**, at the gap **130** between the V-shaped wedges **110**, the wedge prongs/protruding horns **115** redirect the projectile. In one embodiment, the wedge prongs **115** fold under pressure **630** and, thus, act as a sealing barrier at the gap **130**. In another embodiment the shear mass of the adjoining V-shaped wedges **110** and the lateral pressures surrounding the V-shaped wedges **110** prevent full penetration. FIG. 6 depicts the folding effect again, with a first shot **660** and also with a second shot **670** which was a dead center strike at the V profile gap **130**. In yet another embodiment, when a projectile strikes the outer receptor fiberglass material **120** anywhere not just dead center between the gaps **130**, the material expands and pushes against the adjoining V-shaped wedges **110**, closing the gap **130** and thus expending some additional energy of the projectile.

In another embodiment of the present invention, ballistic or other projectiles are deflected from the defense structure rather than absorbed. A hardened rectangular material **140** is

placed in the outer V wedge connecting the longer sides of the rectangular material **140** to the longer free sides of the sidewalls **112** and filler materials like polymers, polycarbons, or hardened metal materials are formulated and used to deflect the incoming projectiles that are shot from the outer receptor side **160** towards the v-shaped wedge side **170**. In another embodiment of the present invention a hardened material **700** as depicted in FIG. 7 is inserted into the cavity or hollow of the V-shaped wedges **110**. In yet another embodiment, the hardened rectangular material **140** is removed and just the hardened material **700** is inserted into the cavity or hollow of the V-shaped wedges **110**. The hardened material **700** is configured to deflect incoming projectiles. A positive outcome of deflecting the projectile is that certain projectiles will ricochet back towards the assailant, creating the chance that a projectile will ricochet into the assailant causing them to cease fire. In another embodiment when the assailant increases the rate of fire, the ricocheted projectiles will bring more devastation to the assailant and/or their allies standing nearby.

In yet another embodiment of the invention, it is recommended that the ballistic resistant defense structure be replaced after being shot at once or after going through repeated back and forth fire.

Having described the disclosed subject matter, what is claimed as new and desired to be secured by Letters Patent is:

1. A method of configuring a defense structure, which comprises:

arranging a defense structure comprising a plurality of V profiles; wherein the plurality of V profiles comprising:
a first side comprising a plurality of V-shaped wedges arranged adjacent to each other; wherein each of the plurality of V-shaped wedges comprising a top opening;

a second side; and

a plurality of slight gaps disposed between the plurality of V-shaped wedges;

configuring a wall surface proximate one of the first side or the second side;

configuring the plurality of V-shaped wedges to guide a first projectile through one of the plurality of slight gaps when the first projectile is directed towards the first side;

configuring the plurality of V-shaped wedges to guide a second projectile into the top opening of one of the plurality of V-shaped wedges when the second projectile is directed towards the second side; and

configuring the plurality of V-shaped wedges to return to a pre-ballistic state after the first projectile is guided through one of the plurality of slight gaps.

2. The method of claim 1, wherein the plurality V-shaped wedges disposed in a horizontal V row-type configuration.

3. The method of claim 2, wherein the first projectile comprises a plurality of shot; whereby the plurality of shot forms a horizontal exit pattern.

4. The method of claim 1, wherein the plurality of V-shaped wedges disposed in a vertical V column-type configuration.

5. The method of claim 4, wherein the first projectile comprises a plurality of shot; whereby the plurality of shot forms a vertical exit pattern.

6. The method of claim 1, wherein each of the plurality of slight gaps is approximately greater than 0.0-0.50 inches wide.

7. The method of claim 1, wherein one of the plurality of slight gaps widens to approximately 0.010-0.50 inches after the first projectile is guided through the one of the plurality of slight gaps.

8. The method of claim 1, wherein the second side 5 comprises an outside receptor disposed parallel to a length of the plurality of V-shaped wedges.

9. The method of claim 8, wherein a fiberglass ballistic material is set within the outside receptor.

10. The method of claim 1, wherein a material is disposed 10 within the top opening; the material configured to adsorb the second projectile and prevent the second projectile from penetrating the defense structure.

11. The method of claim 10, wherein the material comprises a viscous material. 15

12. The method of claim 1, wherein each of the plurality of V-shaped wedges further comprises:

two side walls;

a material disposed between the two side walls; and

two wedge prongs extending outwardly from the two 20 side walls.

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