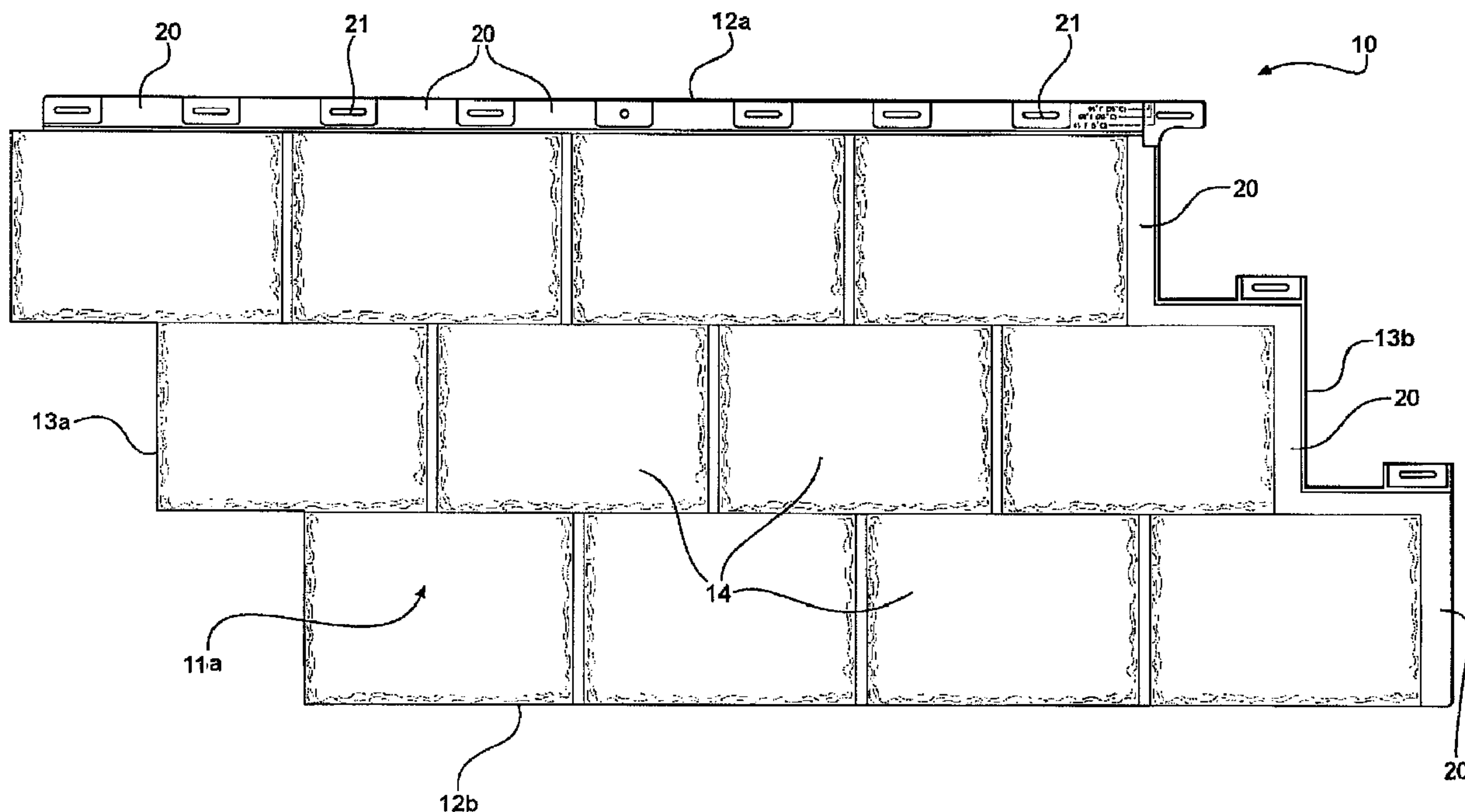




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 (72) Inventeurs/Inventors:
 GAUDREAU, MICHEL, CA;
 GAUDREAU, LOUIS-ANDRE, CA;
 LAGLOIRE, FRANCOIS, CA;
 BILODEAU, RENE, CA;
 ALARIE, GUILLAUME, CA
 (73) Propriétaire/Owner:
 NOVIK INC., CA
 (74) Agent: ROBIC

(54) Titre : PANNEAUX DE TOITURE ET SYSTEME DE TOITURE UTILISANT CES PANNEAUX
 (54) Title: ROOFING PANELS AND ROOFING SYSTEM EMPLOYING THE SAME



(57) **Abrégé/Abstract:**

A roofing system comprising a plurality of roofing panels each having a bottom surface and a top surface, opposite upper and lower edges and opposite lateral edges. The top surface of each roofing panel has the appearance of a plurality of individual shingles. The roofing panels are adapted for sliding engagement with each other along their opposite upper and lower edges and opposite lateral edges when positioned vertically and horizontally adjacent.



ABSTRACT

A roofing system comprising a plurality of roofing panels each having a bottom surface and a top surface, opposite upper and lower edges and opposite lateral edges. The top surface of each roofing panel has the appearance of a plurality of individual shingles. The roofing panels are adapted for sliding engagement with each other along their opposite upper and lower edges and opposite lateral edges when positioned vertically and horizontally adjacent.

common to employ as roofing comparatively inexpensive asphalt shingles. However, others have more recently developed polymeric roofing which resembles such exotic roofing materials. But despite this advance, little has been done heretofore to facilitate the rapid completion of the roofing task. At best, others have developed roofing panels having the appearance of just two or three individual shingles arranged side-by-side horizontally in a single row. While such roofing materials may speed up the process of laying each successive row of shingles, the improvement is only marginal over the conventional roofing installation methodology.

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SUMMARY OF THE DISCLOSURE

The present invention addresses the foregoing problems of the prior art in the provision of a roofing system a plurality of roofing panels each having a bottom surface and a top surface, opposite upper and lower edges and opposite lateral edges. The top surface has the appearance of a plurality of individual shingles. The roofing panels are adapted for sliding engagement with each other along their opposite upper and lower edges and opposite lateral edges when positioned vertically and horizontally adjacent.

In one embodiment of the present invention, the top surface of each roofing panel has the appearance of a plurality of individual shingles arranged in a plurality of vertically adjacent, horizontally extending rows. In one variation of this embodiment, the top surface of each roofing panel has the appearance of a plurality of individual shingles arranged in a plurality of vertically adjacent, horizontally extending rows with each successive row staggered relative to the preceding row. The lateral edges of each roofing panel are stepped to correspond to the staggered rows.

According to one feature of the present invention, each roofing panel comprises a plurality of hooks disposed proximate one of the upper or lower edges and one of the lateral edges, and a plurality of tabs disposed proximate the other of the upper or lower edges and the other of the lateral edges. The tabs of each roofing panel are slidably receivable within the hooks of vertically and horizontally adjacent roofing panels to thereby permit sliding engagement between roofing panels disposed horizontally and vertically adjacent each other.

In another feature of this invention, at least the upper edge of each roofing panel comprises a plurality of laterally extending slots for receiving fastening elements therethrough. The slots are defined along vertically recessed portions of the upper edge intermediate the plurality of tabs or hooks provided on the upper edge.

According to still another feature of the present invention, the bottom surface of each roofing panel includes a plurality of ribs projecting downwardly therefrom.

Per yet another feature of the instant invention, the roofing system comprises a plurality of edging strips each having the appearance of the bottom portions of a plurality of individual shingles arranged in a horizontal row. Each edging strip is slidably engageable with the bottom edge of at least one roofing panel disposed vertically adjacent thereto.

In one embodiment, each edging strip comprises a plurality of hooks or tabs disposed proximate an upper edge of the edging strip, these hooks or tabs adapted to engage with the hooks or tabs provided on the bottom edge of a vertically adjacent roofing panel to permit sliding engagement therebetween. In another aspect of this embodiment, the upper edge of each edging strip further comprises a plurality of laterally extending slots for receiving fastening elements therethrough, the slots being defined along vertically recessed portions of the upper edge intermediate the plurality of tabs or hooks provided on said upper edge.

According to yet another feature of the present invention, each roofing panel further comprises indicia facilitating the selective horizontal spacing of each roofing panel with a horizontally adjacent roofing panel. In one embodiment thereof, these indicia comprise a plurality of temperature lines each indicating a predetermined horizontal spacing between horizontally adjacent roofing panels at a predetermined ambient temperature.

Per still another inventive feature, each edging strip of the presently disclosed roofing system further comprises indicia facilitating the selective horizontal spacing of each edging strip with a horizontally adjacent edging strip. In one embodiment thereof, these indicia comprise a plurality of temperature lines each indicating a predetermined horizontal spacing between horizontally adjacent edging strips at a predetermined ambient temperature.

According to yet another inventive feature of the present invention, each roofing panel includes at least one flexible stop projecting from the bottom surface thereof, the at least one stop positioned for abutting contact with a lateral edge of another roofing panel positioned vertically adjacent thereto. In one embodiment thereof, each roofing panel is provided with a plurality of such flexible stops positioned proximate each of the plurality of hooks disposed proximate the upper or lower edges. Each such stop projects from the bottom surface of each roofing panel so as to be positioned for abutting contact with a lateral edge of another roofing panel positioned vertically adjacent thereto.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention may be better understood with reference to the written description and drawings, of which:

FIG. 1A comprises a top plan view of a single roofing panel according to the exemplary embodiment of the present invention;

FIG. 1B comprises a bottom plan view of the roofing panel of **FIG. 1A**;

FIG. 2A is a top plan view of a single edging strip according to the exemplary embodiment of the present invention;

FIG. 2B comprises a bottom plan view of the edging strip of **FIG. 2A**;

FIG. 3A depicts in perspective an edging strip according to the present invention, the edging strip shown in an operation environment secured to the roof substrate of a dwelling;

FIG. 3B is a cross-sectional view of the edging strip of **FIG. 3A**, taken along lines **III**;

FIGS. 4A and **4B** are respectively a top plan view and a perspective view of the opposing ends of adjacent edging strips;

FIG. 5 depicts in perspective the securement of a first roofing panel according to the exemplary embodiment of the present invention on to the roofing underlayment or substrate of a dwelling and into engagement with a previously installed edging strip;

FIG. 6 is a bottom plan view of a roofing panel and edging strip in engagement with each other;

FIGS. 7A and **7B** illustrate in top plan-view the manner of engagement between a single roofing panel and both a horizontally adjacent roofing panel and an edging strip;

FIG. 8 is a detailed top plan-view depicting the manner of engagement between horizontally adjacent roofing panels; and

FIGS. 9, 9A, and 9B are detailed quartering perspectives of vertically adjacent roofing panels, depicting in detail the manner of engagement and subsequent relative movement between them.

DETAILED DESCRIPTION

Referring now to the drawings, wherein like numerals refer to like or corresponding parts among the several views, the present invention will be seen to most generally comprise a roofing system including a plurality of roofing panels adapted for sliding engagement with like roofing panels positioned vertically and horizontally adjacent thereto.

Turning to **FIGS. 1A and 1B**, each such roofing panel **10** is characterized by an upper surface **11a** (**FIG. 1A**) and a bottom surface **11b** (**FIG. 1B**), opposite upper **12a** and lower **12b** edges and opposite lateral edges **13a, 13b**.

With continuing reference to **FIG. 1A**, the upper surface **11a** of each individual roofing panel **10** is formed to represent a plurality of vertically adjacent, horizontally extending rows of shingles **14**. Still more particularly, the upper surface **11a** of the illustrated embodiment is formed to create the appearance of a plurality of individual shingles **14** arranged in a plurality of vertically adjacent, horizontally extending rows. Further to this particular embodiment, each successive row is staggered relative to the preceding row, and the lateral edges **13a, 13b** of the roofing panel **10** are correspondingly stepped to accommodate the staggered rows.

The roofing panels **10** of the present invention may be formed of any material known to be suited to use as a roofing material, with a polymeric material being preferred but not required. And while each roofing panel **10** as shown in the exemplary embodiment is monolithic, it will be understood that such construction is only preferred and that each roofing panel may, in the alternative, comprise an unitary element fashioned from two or more separate constituent components.

Referring particularly to **FIG. 1B**, sliding engagement between vertically and horizontally adjacent roofing panels is accomplished, in the illustrated embodiment, by the provision of a plurality of hooks **15** disposed proximate one or more of the upper **12a** or lower **12b** edges and one or more of the lateral edges **13a**, **13b**, and the provision of a plurality of tabs regions **20** disposed proximate one or more of the upper **12a** or lower **12b** edges and one or more of the lateral edges **13a**, **13b**.

Referring also to **FIGS. 9, 9A, and 9B**, each hook **15** of this embodiment more specifically comprises a generally J-shaped jaw **16** extending from the bottom surface **11b** of the panel **10** so as to define an intermediate opening **17** -- i.e., between the jaw **16** and the bottom surface **11b** -- dimensioned to slidably receive therein a tab portion **20'** of an adjacent panel **10'**.

Each of the tabs portions **20, 20'** (in **FIGS. 9, 9A, and 9B**) in turn, constitutes as shown a generally planar portion of the roofing panel defined proximate one or more of the upper **12a** (**12a'** in **FIGS. 9, 9A, and 9B**) or lower **12b** edges and one or more of the lateral edges **13a**, **13b** as mentioned previously. As shown best in **FIGS. 9, 9A, and 9B**, each tab **20'** is further characterized by dimensions sufficient to permit relative lateral sliding movement of the hook **15** of another roofing panel therealong, thus facilitating relative

sliding movement of adjacent roofing panels due to thermal expansion and contraction, all as described further hereinbelow.

As will be appreciated with reference to this specification, the arrangement of hooks **15** and tabs **20** may be reversed, or a combination of hooks **15** and tabs **20** may be provided
5 on the edges **12a** or **12b**, **13a** or **13b**, as desired.

Referring now to **FIGS. 1A, 1B, and 9**, securement of each individual roofing panel **10** to the roofing substrate or underlayment is facilitated by the provision of a plurality of laterally extending slots **21** (**21'** in **FIG. 9**) positioned about the perimeter of the roofing panel, including at least along the upper edge **12a** (**12a'** in **FIG. 9**). Each such slot **21, 21'** is
10 dimensioned to receive a fastening element, such as nail **N** or the like, therethrough. As shown, each slot **21, 21'** is defined along a vertically recessed portion of the panel edge **12a** (**12a'** in **FIG. 9**), with tabs **20, 20'** being defined therebetween by vertically raised portions of the same edge.

Referring specifically to **FIG. 1B**, in order to reinforce the structure of each roofing
15 panel **10**, and further to aid in maintaining the upper surface **11a** at a desired distance from the roofing substrate so as to facilitate the circulation of air therethrough, the bottom surface **11b** of the each roofing panel **10** includes a plurality of ribs or stand-offs **22** projecting downwardly therefrom.

Referring now to **FIG. 8**, each roofing panel **10** is optionally provided with indicia
20 facilitating the selective horizontal spacing of each roofing panel with a horizontally adjacent roofing panel, thereby ensuring that subsequent expansion and contraction of roofing panels due to changes in ambient temperatures do not lead to unwanted separation or buckling of adjacent panels. More particularly according to the illustrated embodiment, each roofing

panel is provided with a plurality of horizontally staggered lines **25** or other indicia each representing a desired position of the extreme lateral edge (indicated at **13a'** in **FIG. 8**) of an adjacent roofing panel **10'** in relation thereto and, by association, the extent of engagement between the tabs **20** and hooks **15'** of such adjacent panels. These lines **25**, which in the
5 illustrated embodiment are positioned proximate a lateral edge **13b** of each roofing panel **10**, are further associated with indicia **26** reflecting several ambient temperatures, each such temperature reflecting an approximate ambient temperature under which the roofing panels of the present invention may be installed.

Turning next to **FIGS. 1B, 9, 9A** and **9B**, each roofing panel **10** is, in order to
10 facilitate the precise alignment of vertically adjacent roofing panels relative to each other, optionally provided with one or more flexible stops **30** projecting downwardly from the bottom surface **11b** proximate each of those hooks **15** disposed adjacent the upper and/or lower edges **12a, 12b**. As best shown in **FIGS. 9A** and **9B**, each such stop **30** is positioned intermediate the length of an adjacent hook **15**, thereby defining a stop surface for the upper
15 edge **12a'** of an adjacent panel **10'** before the corresponding tabs **20'** are fully received in the openings **17** in hooks **15** so that the edge **12a'** abuts against the end walls **18** of hooks **15**. Preferably, though not necessarily, one stop **30** is provided adjacent either side of each hook **15** as shown. The specific position of the abutments **30** is predetermined as that which will permit subsequent expansion and contraction of adjacent panels **10, 10'** – and the
20 corresponding relative movement of slidingly engaged hooks **15** and tabs **20'** -- due to changes in ambient temperatures without causing either unwanted separation of the panels occasioned by disengagement of the tabs **20'** and hooks **15**, or buckling of adjacent panels **10, 10'** occasioned by the force of edge **12a'** acting against the end walls **18** of hooks **15**.

Preferably, though not necessarily, each abutment **30** is formed integrally with the panel **10**, although it will be appreciated that the abutments **30** may be affixed to the panels **10** subsequent to their formation.

As mentioned, each stop **30** serves to define a positive stop for the lateral edge **12a'** of an adjacent panel **10'** as the panel **10** is installed, thereby identifying for the installer the preferred relative positioning between the panels **10**, **10'**. To permit subsequent relative movement of the installed panels **10**, **10'** as a result of changes in ambient temperatures, each stop **30** is also sufficiently flexible so as to yield (**FIG. 9B**) under the pressure of the lateral edge **12a'** of an adjacent panel **10'** acting thereagainst as such panel **10'** expands in consequence of increased ambient temperatures.

Referring next to **FIGS. 2A, 2B, 4A** and **4B**, the roofing system of the present invention further comprises a plurality of edging strips **40** each having a bottom edge **41b** proximate which the edging strip is formed to represent the bottom edges of a plurality of individual shingles **43**, an upper edge **41a**, and opposite lateral edges **42a, 42b**. As with the roofing panels **10** (not shown in **FIGS. 2A** and **2B**), each edging strip **40** includes a plurality of slotted holes **44** for receiving fastening elements (such as nails or the like) therethrough. Also as with the roofing panels **10** described above, the plurality of slotted holes **44** are defined in vertically recessed portions of an upper edge **41a** of the edging strip, while the vertically raised portions of the upper edge **41a** positioned therebetween define a plurality of tab portions **45** slidably engageable with hooks **15** of vertically adjacent roofing panels in a manner akin to that employed to slidably engage the roofing members **10** with each other.

To facilitate the installation of adjacent edging strips **40, 40'**, etc. at desirable distances so as to permit the subsequent temperature-induced expansion and contraction of

these elements without unwanted buckling or disengagement, each edging strip is optionally provided with indicia facilitating the selective horizontal spacing of each edging strip **40** with a horizontally adjacent edging strip **40'**. More particularly according to the illustrated embodiment, best shown in **FIG. 4A**, each edging strip **40** is provided with a plurality of horizontally staggered lines **46** or other indicia each representing a desired position of the extreme lateral edge (indicated at **42a'** in **FIG. 4A**) of an adjacent edging strip **40'** in relation thereto. These lines **46** are further associated with indicia **47** reflecting several ambient temperatures, each such temperature reflecting an approximate ambient temperature under which the edging strips of the present invention may be installed.

In the illustrated embodiment, each edging strip **40** is formed of a suitable polymeric material such as is presently known in the art for the manufacture of roofing materials. However, it will be understood that other materials also known to those skilled in the art may be substituted. Also in the illustrated embodiment, each edging strip **40** is characterized by an overall length equivalent to the width of a single roofing panel **10**. Again, however, it will be appreciated that this length may be varied, being either shorter or longer than that particularly illustrated.

Referring now to **FIGS. 3A** through **8**, there is shown the exemplary installation of a roof according to the inventive system using the roofing panels **10** and edging strips **40** as heretofore described.

As with convention, the roofing system of the present invention is installed on a suitable substrate, such as wood panels adhered to the frame of a dwelling. Also per convention, it will be understood as desirable to have the substrate further covered with a

waterproof underlayment material, such as a polymeric liner, sandwiched between the substrate and the elements of the roofing system.

Turning first to **FIGS. 3A** and **3B**, the first step in installation of a roof according to the instant invention is to preferably secure a plurality of edging strips **40** along the bottom edge of the roof **50**. Each strip **40** is laid successively, preferably beginning at the farthest lateral point along the bottom edge of the roof. When each edging strip **40** is in the desired position, fasteners such as nails or the like are inserted through one or more of the slotted holes **44** to secure the edging strip **40** to the roof substrate (e.g., wood panels overlaid with a water resistant sheathing).

Referring next to **FIGS. 4A** and **4B**, installation of successive edging strips **40'**, etc. is achieved by sliding such successive edging strip laterally into abutting contact with the preceding edging strip (e.g., **40**) and thereafter securing the successive strip **40'**, etc. in place in the same manner described previously.

To facilitate the installation of the successive edging strips **40'** at a distance relative to the preceding edging strip **40** permitting the subsequent temperature-induced expansion and contraction of these edging strips relative to each other without producing unwanted separation or buckling, the successive edging strip **40'**, etc. is positioned so that the terminal end **42a'** thereof is aligned with the positioning line **46** or other indicia on the edging strip **40** which closest approximates the prevailing ambient temperature at the time of installation.

Referring next to **FIGS. 5** and **6**, installation of a first roofing panel **10** onto the roof **50** and into engagement with a previously installed edging strip **40** is depicted. More particularly, it will be seen that the roofing panel **10** is placed on the roof substrate such that the innermost lateral edge (denoted by **13a** in **FIGS. 5** and **6**) is in alignment with the farthest

lateral edge of the roof **50**. The roofing panel **10** is then moved vertically downwards to bring the hooks **15** positioned along the lower edge **12b** thereof slidingly into engagement with the correspondingly positioned tabs **45** defined along the upper edge **41a** of the previously installed edging strip **40**, in exactly the same manner as that described previously for engagement of the tabs and hooks of vertically adjacent roofing panels in reference to **FIGS. 9, 9A and 9B**. Thus, upon the first indication of abutting contact between the upper edge **41a** and the stops **30** positioned adjacent each hook **15** – thus identifying for the installing user that the relative position between the panel **10** and the upper edge **41a** of the edging strip **40** is that which will permit subsequent vertical expansion of the panel **10** due to increases in the ambient temperature without causing unwanted buckling -- the user preferably ceases urging the panel **10** further vertically downward into engagement with the edging strip **40**.

With the roofing panel **10** so aligned relative to the edging strip **40**, fasteners are inserted through the slotted holes **21** to fix the roofing panel **10** in position. Any excess **X** of the roofing panel **10** extending beyond the innermost lateral edge **13a** of the roof **50** is then trimmed off to present a neat appearance therealong.

Turning now to **FIGS. 7A and 7B**, there is depicted the subsequent step of installing a second (or subsequent) roofing panel **10'**, etc. in position horizontally adjacent the previously installed roofing panel **10**. More particularly, it will be seen that the roofing panel **10'** is placed on the roof (not depicted) adjacent the previously installed roofing panel **10**. The roofing panel **10'** is then moved vertically downwards to bring the hooks **15** (not visible) positioned along the lower edge **12b** thereof slidingly into engagement with the correspondingly positioned tabs **45** provided on the upper edge **41a'** of the previously installed edging strip **40'** in the same manner as described previously in connection with the

roofing panel **10** and edging strip **40**. The roofing panel **10'** may then be slid horizontally towards the previously installed roofing panel **10** to bring the hooks **15'** (not visible) positioned along the lateral edge **13a'** thereof slidingly into engagement with the tabs **20** defined along stepped lateral edges **13b** of the roofing panel **10**.

5 To facilitate the installation of successive adjacent roofing panels **10**, **10'**, etc. at a distance permitting the subsequent temperature-induced expansion and contraction thereof without causing unwanted separation or buckling of the panels, the installing user positions the outermost lateral edge **13a'** of the panel **10'** with the line **25** or other indicia which closest approximates the prevailing ambient temperature at the time of installation, all as
10 described previously.

With the roofing panel **10'** so positioned, fasteners are inserted through the slotted holes **15'** to fix the roofing panel in position.

It will be understood from the foregoing that the installation of successive roofing panels in the same horizontal row of roofing panels **10**, **10'**, etc. continues in the manner
15 described until an entire row is installed across the roof. Thereafter, subsequent vertical rows of roofing panels are installed in similar fashion, with the hooks **15** provided along the bottom edge **12b** of each such roofing panel being slidingly engaged with the tabs **20** provided along the upper edges **12a** of vertically lower roofing panels in identical fashion to the engagement between the hooks **15** of roofing panels and the tabs **45** of the edging strips
20 **40** already described hereinabove.

Upon complete installation of all rows of roofing panels on all surfaces of the roof, there is further installed a plurality of ridge panels (not shown) characterized by an inverted

V-shaped cross-section. However, such ridge panels constitute no part of the current invention.

Naturally, variations in the exemplary manner of installation heretofore described are possible, as will be apparent to those of ordinary skill in the art.

5 It will be appreciated from the foregoing disclosure that the present invention provides a roofing system of employment thereof, which facilitates the inexpensive and rapid installment of a roof having the appearance of comprising multiple individual shingles.

Of course, the preceding specification is merely illustrative of the present invention, and those of ordinary skill in the art will appreciate that many additions and modifications to
10 the present invention, as set out in this disclosure, are possible without departing from the spirit of this invention as defined in the appended claims.

CLAIMS

The invention in which an exclusive property or privilege is claimed is defined as follows:

1. A roofing system, comprising:

a plurality of roofing panels each having a bottom surface and a top surface, opposite upper and lower peripheral edges and opposite lateral peripheral edges, the top surface having the appearance of a plurality of individual shingles, and wherein each roofing panel comprises a plurality of hooks disposed on the bottom surface proximate at least the lower edge and at least one of the lateral edges, the hooks opening outwardly away from the roofing panel to thereby permit the peripheral edges of roofing panels disposed horizontally and vertically adjacent each other to be slidingly received therein;

wherein each roofing panel further comprises a plurality of tabs disposed proximate at least the upper edge and at least one of the lateral edges, wherein the tabs of each roofing panel are slidingly receivable within the hooks of vertically and horizontally adjacent roofing panels to thereby permit sliding engagement between roofing panels disposed horizontally and vertically adjacent to each other;

wherein further at least the upper edge of each roofing panel comprises a plurality of laterally extending slots for receiving fastening elements therethrough, the slots being defined along vertically recessed portions of the upper edge intermediate the plurality of tabs, and wherein the vertically recessed portions are positioned for abutting contact with a support surface, and said plurality of tabs are vertically raised relative to said recessed portions so as to avoid abutting contact with a support surface; and

wherein further each vertically raised tab is slidingly receivable within the hook of a vertically adjacent roofing panel so that the hook is substantially disposed between the vertically recessed portions defined intermediate the vertically raised tabs.

2. The roofing system of claim 1, wherein the top surface of each roofing panel has the appearance of a plurality of individual shingles arranged in a plurality of vertically adjacent, horizontally extending rows.

3. The roofing system of claim 2, wherein the top surface of each roofing panel has the appearance of a plurality of individual shingles arranged in a plurality of vertically adjacent, horizontally extending rows with each successive row staggered relative to the preceding row, and wherein further the lateral edges of each roofing panel are stepped to correspond to the staggered rows.

4. The roofing system of any one of claims 1 to 3, wherein the bottom surface of each roofing panel includes a plurality of ribs projecting downwardly therefrom.

5. The roofing system of any one of claims 1 to 4, further comprising a plurality of edging strips each having the appearance of only the bottom portions of a plurality of individual shingles arranged in a horizontal row, and each edging strip further being slidingly engageable with the hooks proximate the lower edge of at least one roofing panel disposed vertically adjacent thereto.

6. The roofing system of claim 5, wherein each edging strip comprises a plurality of tabs positioned proximate an upper edge of the edging strip, said tabs adapted to engage with the hooks provided proximate the lower edge of a vertically adjacent roofing panel to permit sliding engagement therebetween.

7. The roofing system of claim 6, wherein the upper edge of each edging strip further comprises a plurality of laterally extending slots for receiving fastening elements therethrough, the slots being defined along vertically recessed portions of the upper edge intermediate the plurality of tabs provided on said upper edge, and wherein the vertically recessed portions are positioned for abutting contact with a support surface, and said plurality of tabs are positioned on portions of said upper edge which are vertically raised relative to said recessed portions so as to avoid abutting contact with a support surface.
8. The roofing system of any one of claims 1 to 7, wherein each roofing panel further comprises indicia facilitating the selective horizontal spacing of each roofing panel with a horizontally adjacent roofing panel.
9. The roofing system of claim 8, wherein said indicia comprise a plurality of temperature lines each indicating a predetermined horizontal spacing between horizontally adjacent roofing panels at a predetermined ambient temperature.
10. The roofing system of claim 5, wherein each edging strip further comprises indicia facilitating the selective horizontal spacing of each edging strip with a horizontally adjacent edging strip.
11. The roofing system of claim 10, wherein said indicia comprise a plurality of temperature lines each indicating a predetermined horizontal spacing between horizontally adjacent edging strips at a predetermined ambient temperature.
12. The roofing system of any one of claims 1 to 11, further comprising at least one flexible stop projecting from the bottom surface of each roofing panel and positioned for abutting contact with a lateral edge of another roofing panel positioned vertically adjacent thereto.

13. The roofing system of any one of claims 1 to 11, further comprising a plurality of flexible stops positioned proximate each of the plurality of hooks disposed proximate the upper or lower edges, and each said stop projecting from the bottom surface of each roofing panel so as to be positioned for abutting contact with a lateral edge of another roofing panel positioned vertically adjacent thereto.

14. The roofing system of claim 1, further comprising a plurality of edging strips for installation as the vertically lowest course in a polymeric roof, each edging strip simulating the appearance of only the bottom portions of a plurality of individual shingles, and each edging strip further being slidably engageable with at least one roofing panel disposed vertically adjacent thereto.

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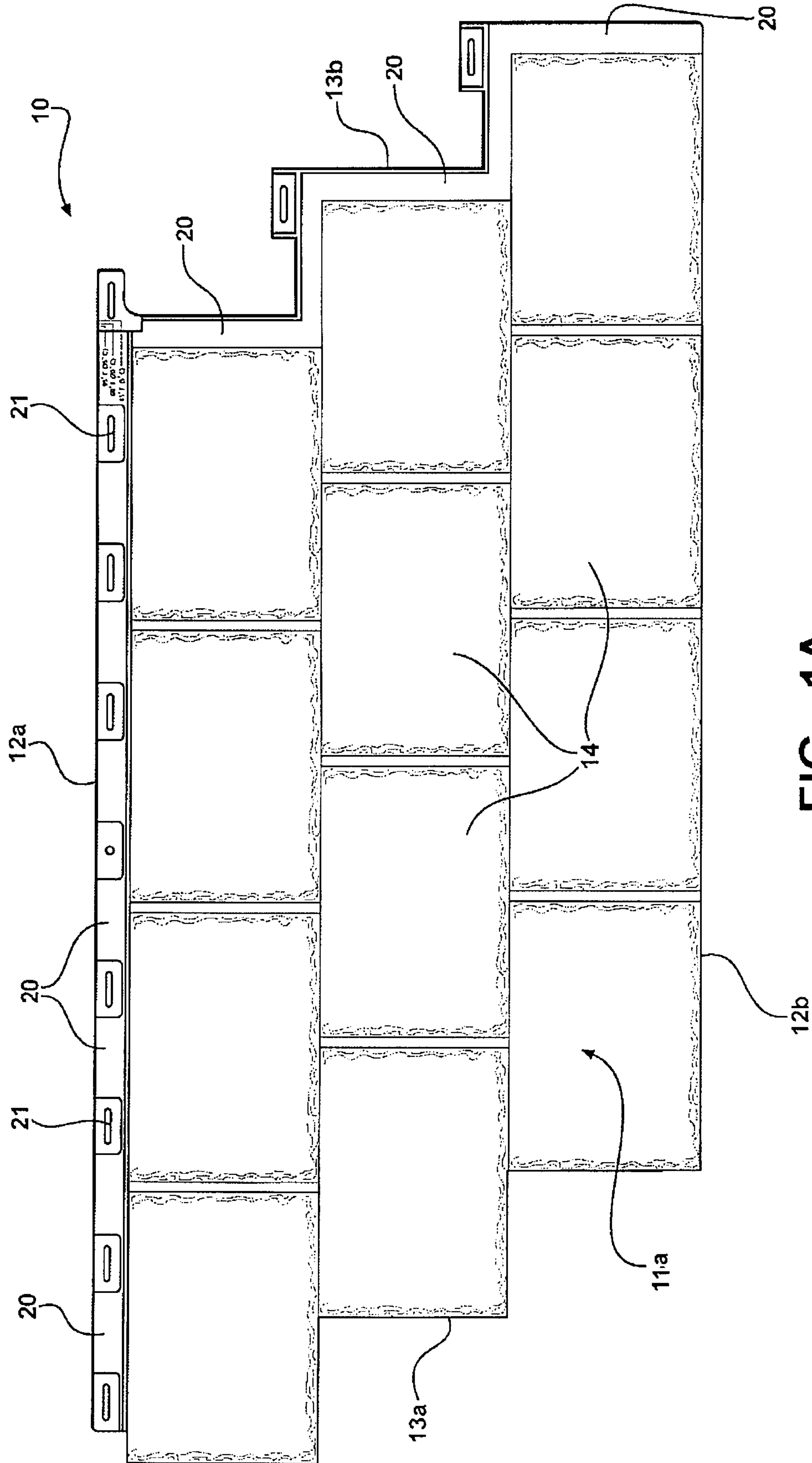


FIG - 1A

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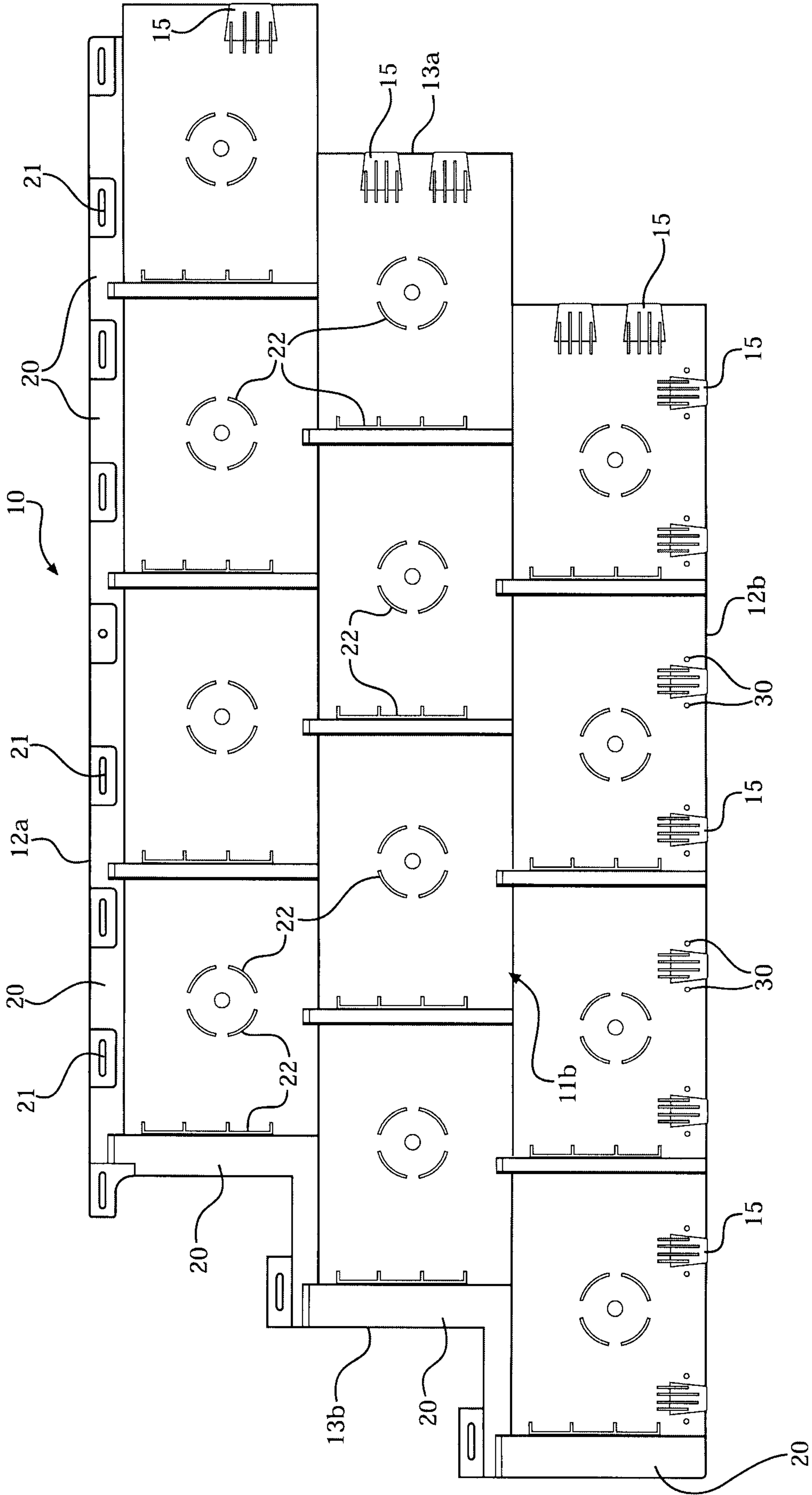


FIG - 1B

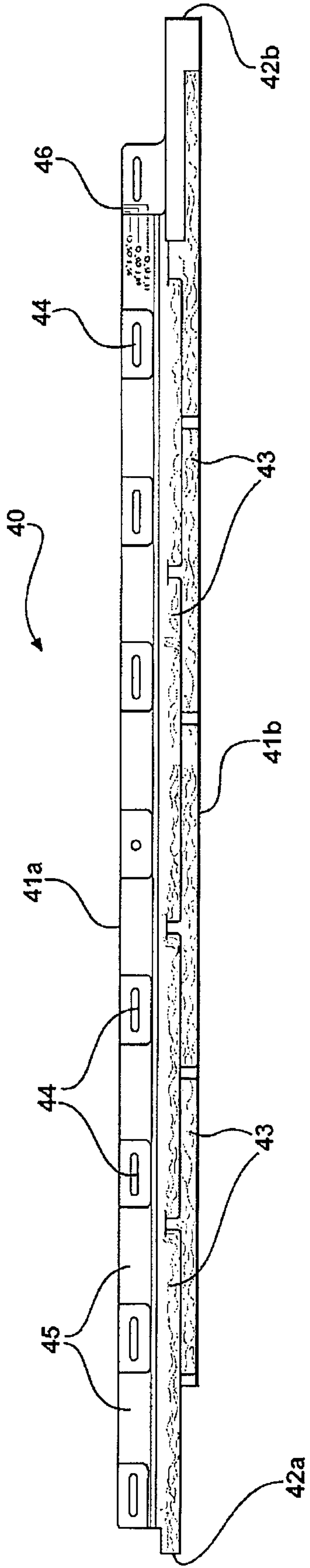


FIG - 2A

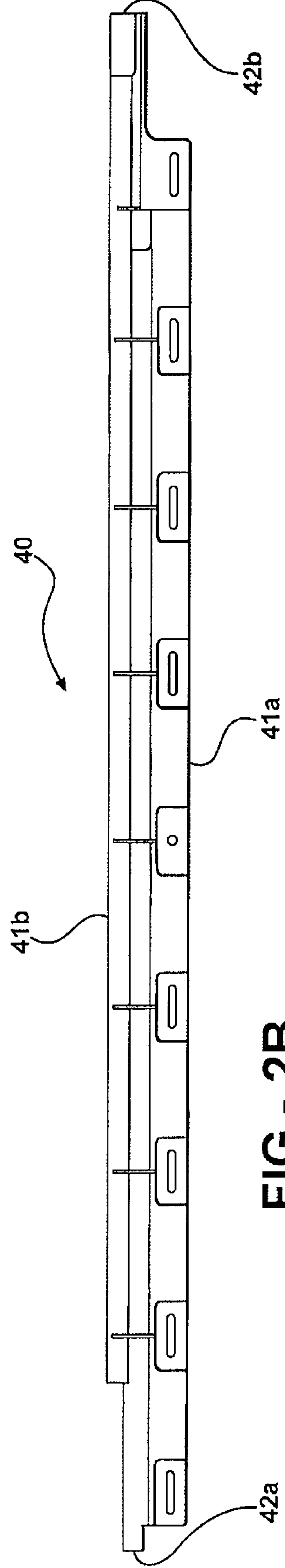


FIG - 2B

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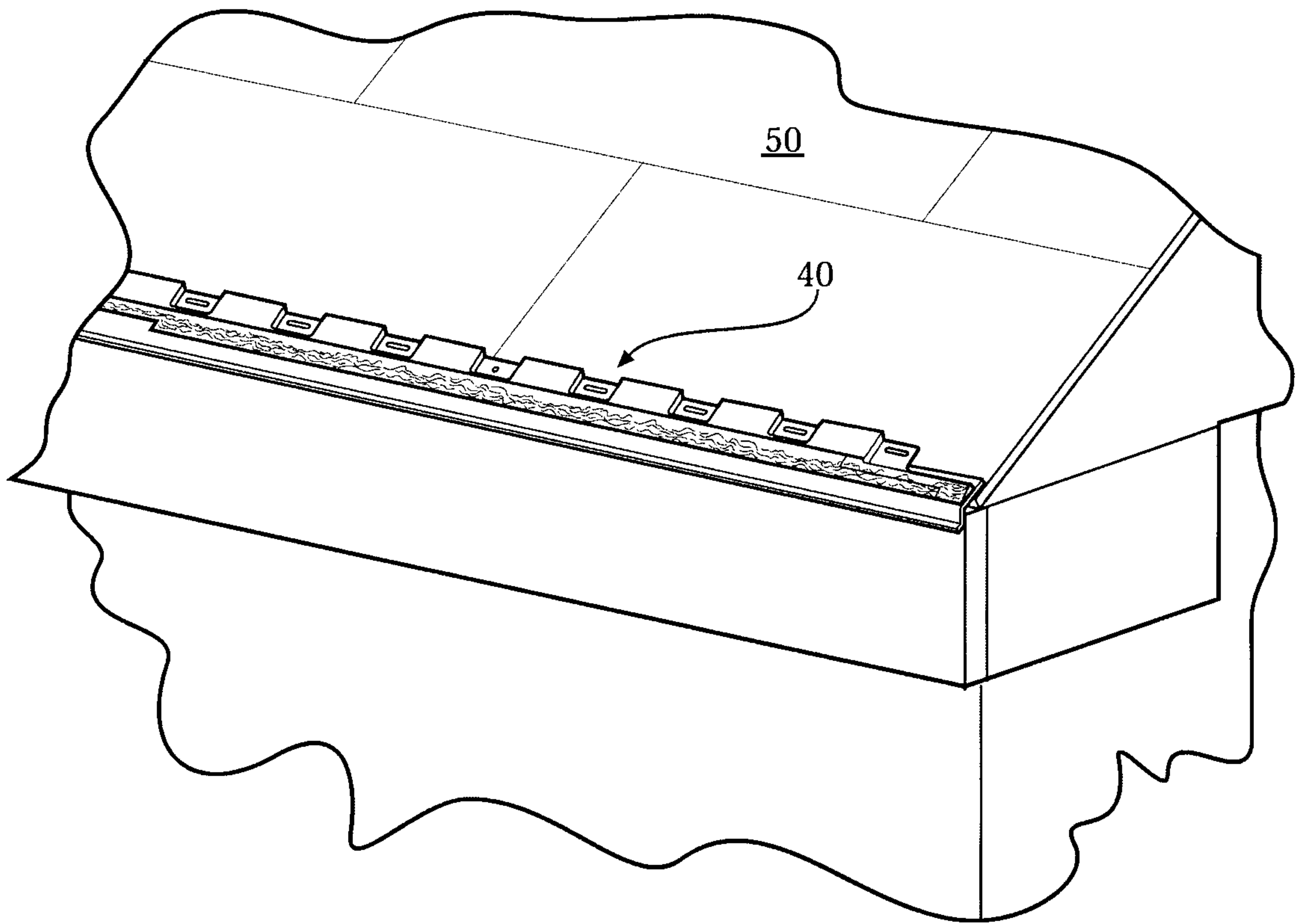


FIG - 3A

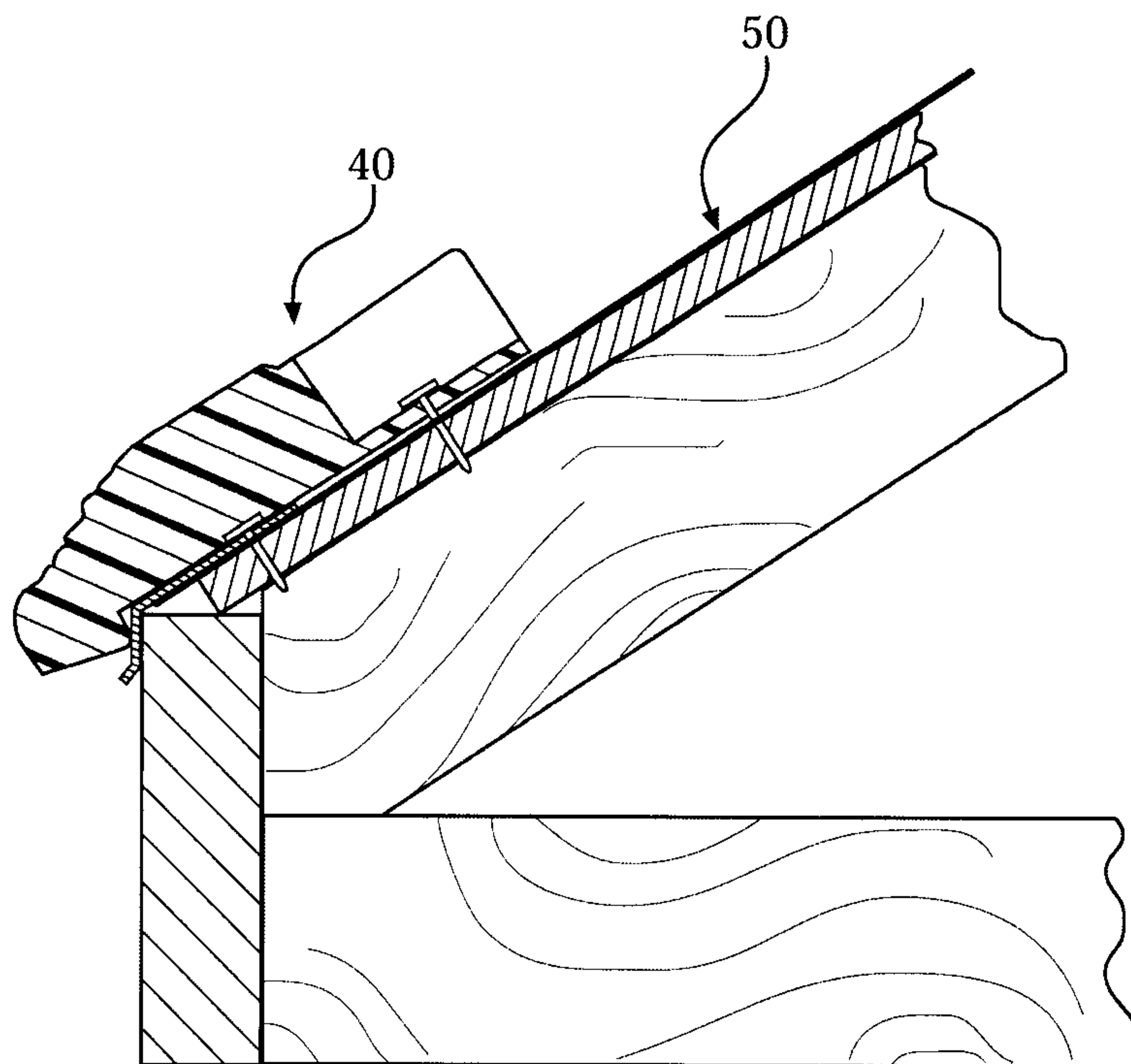


FIG - 3B

5/12

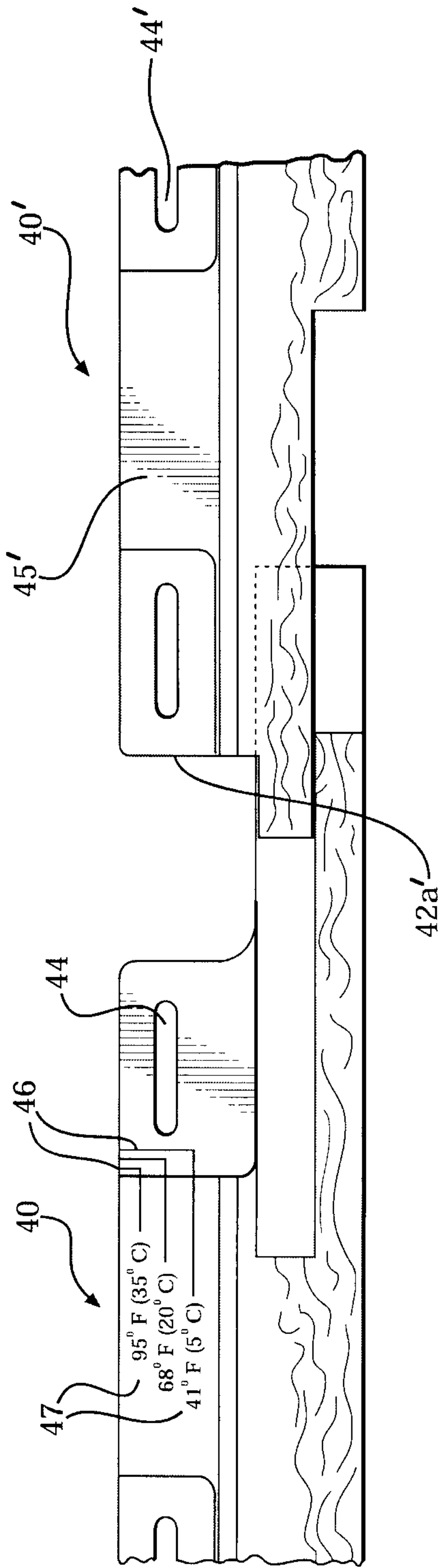


FIG - 4A

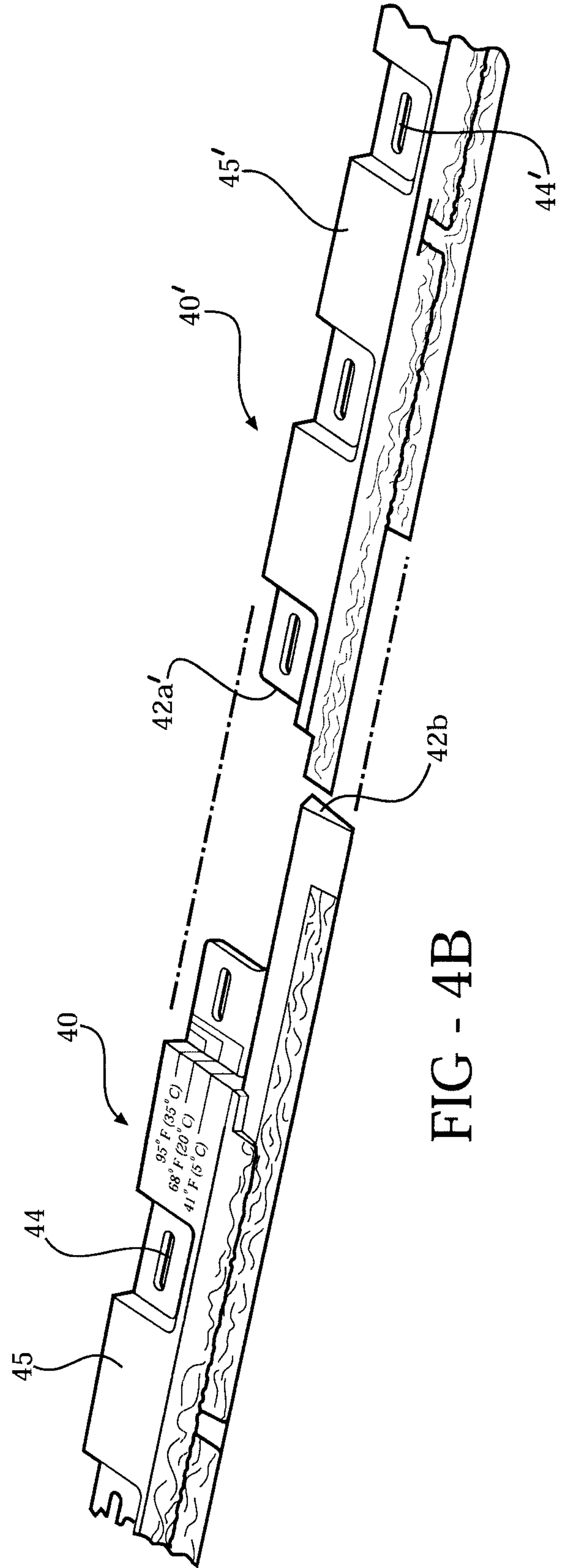


FIG - 4B

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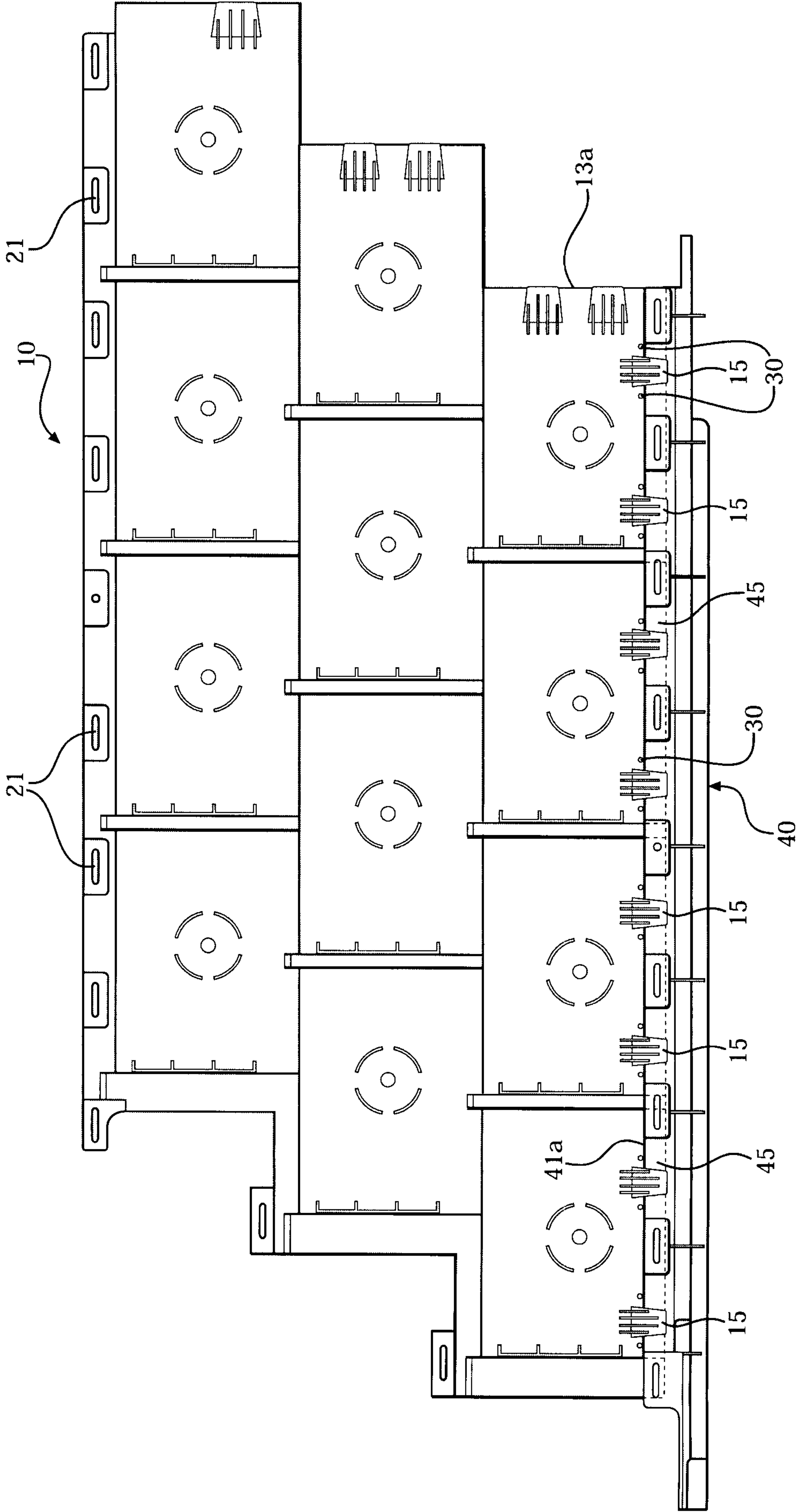


FIG - 6

8/12

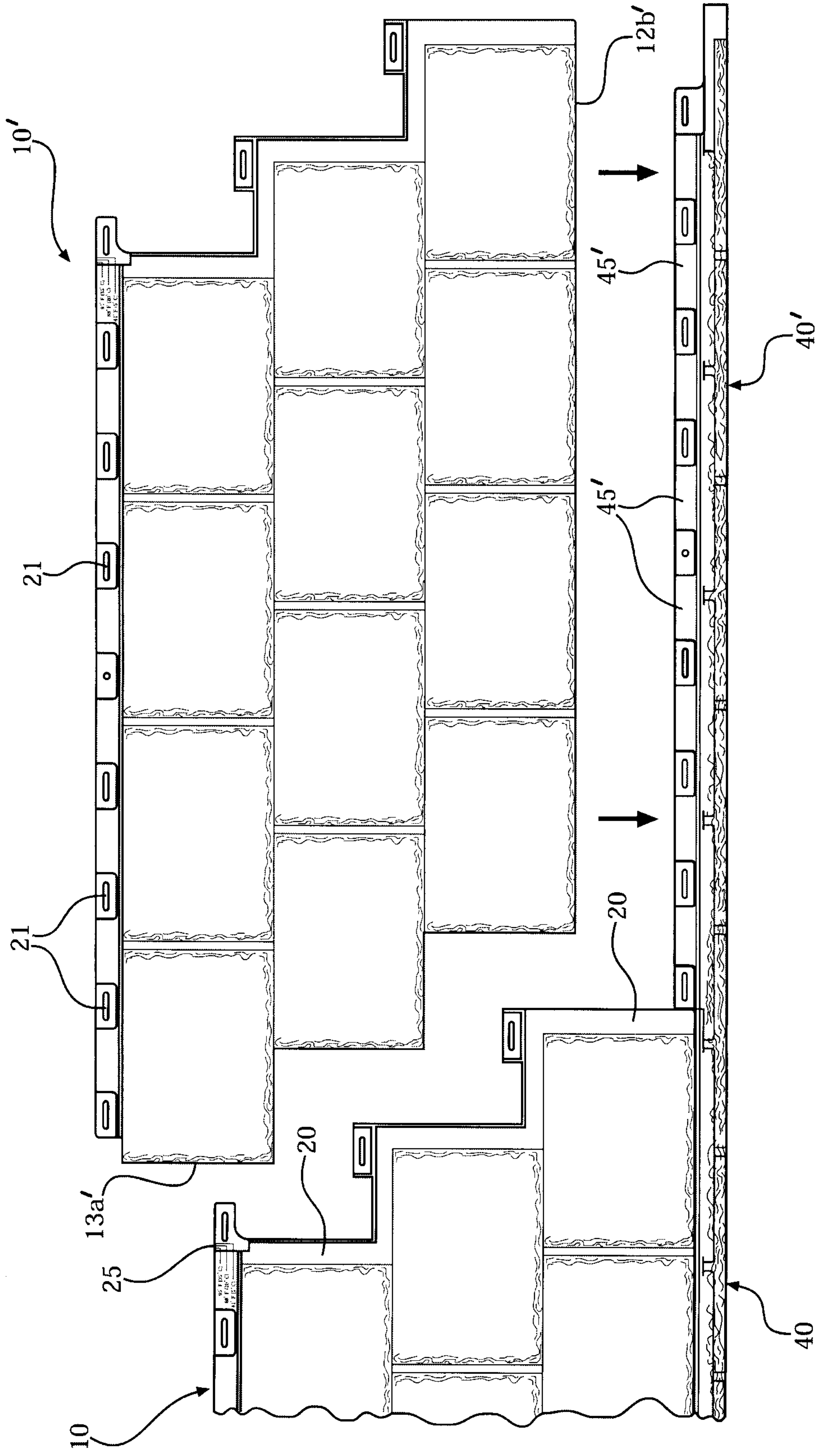


FIG - 7A

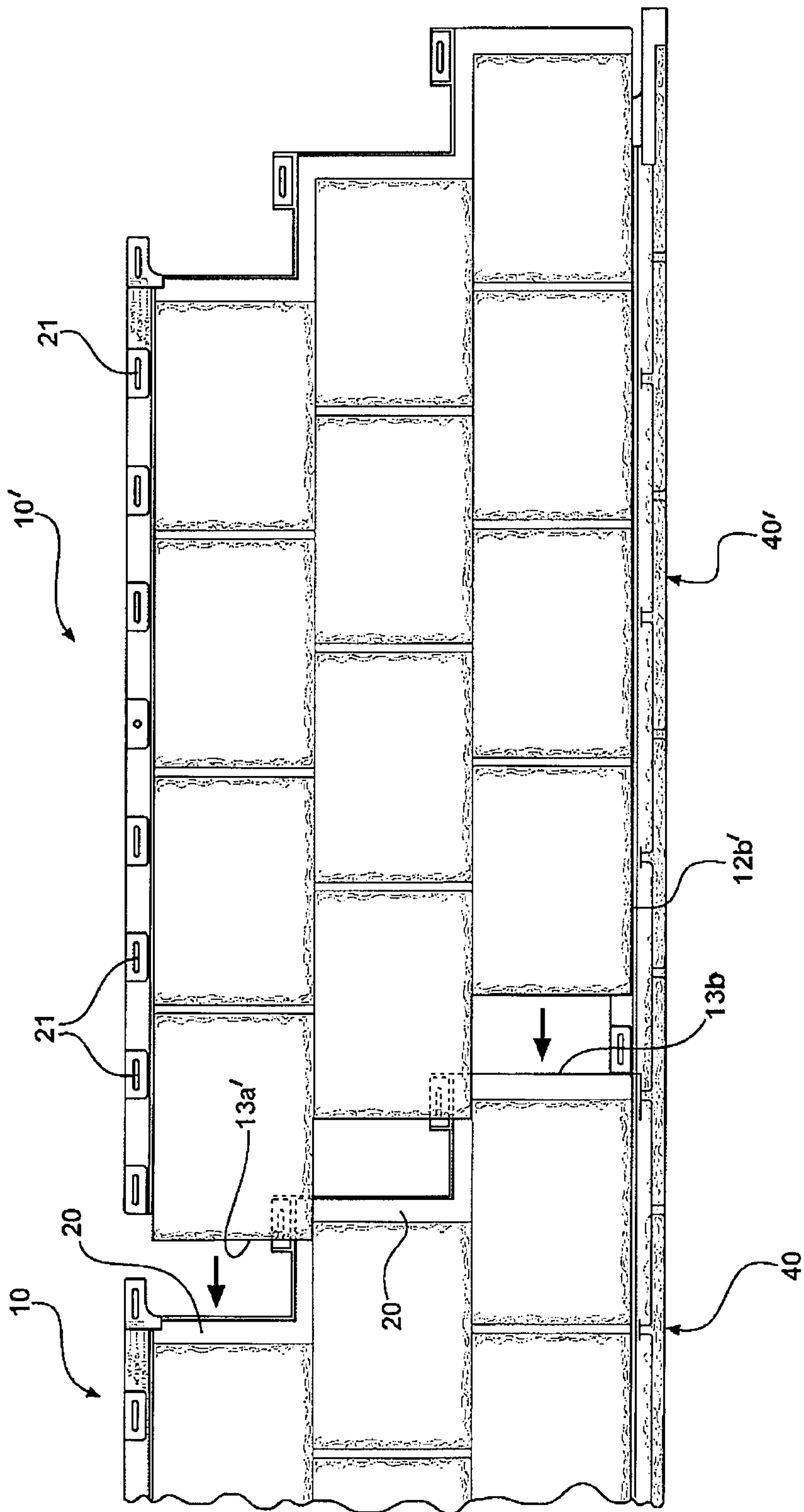


FIG - 7B

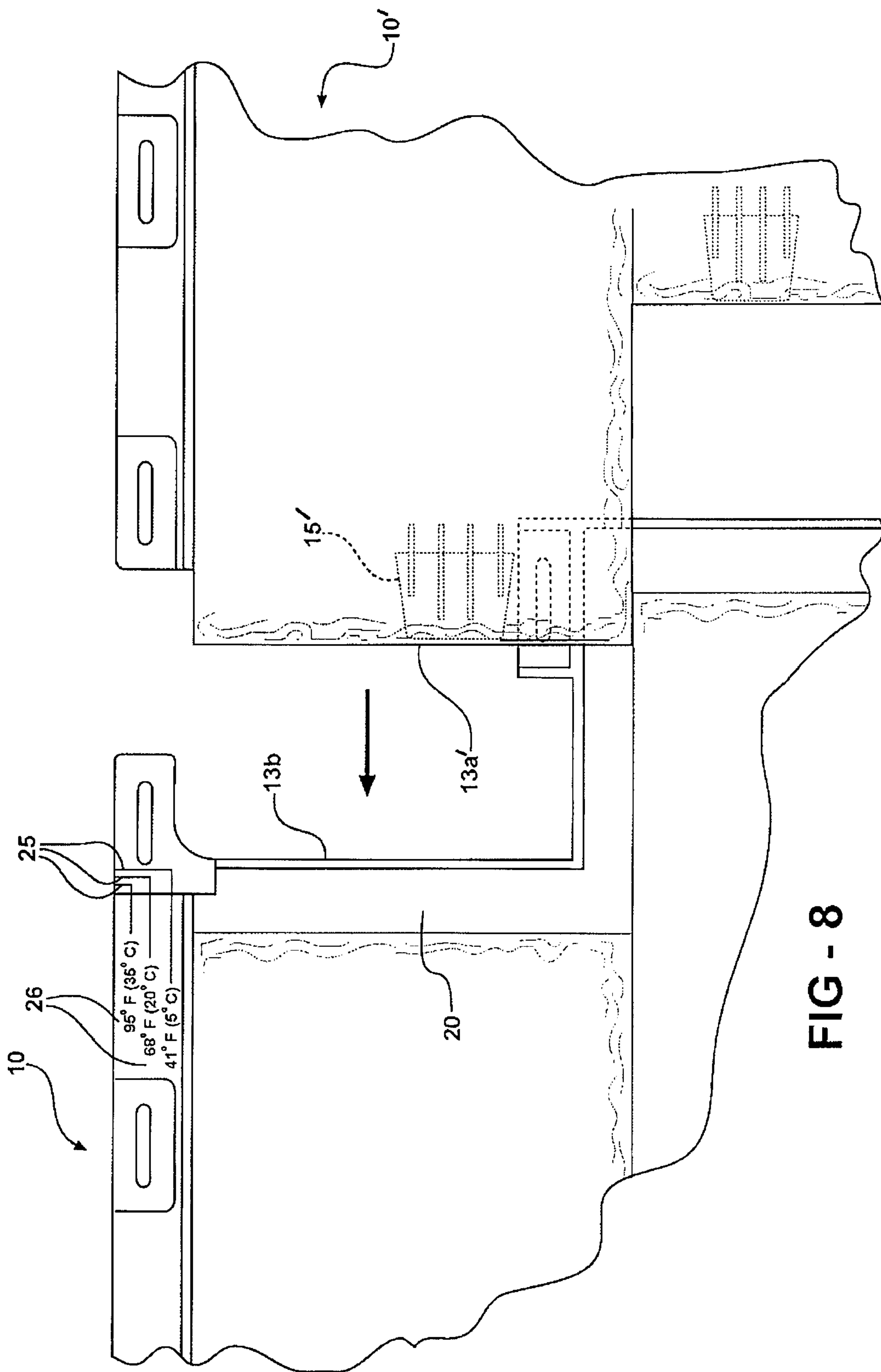


FIG - 8

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FIG - 9

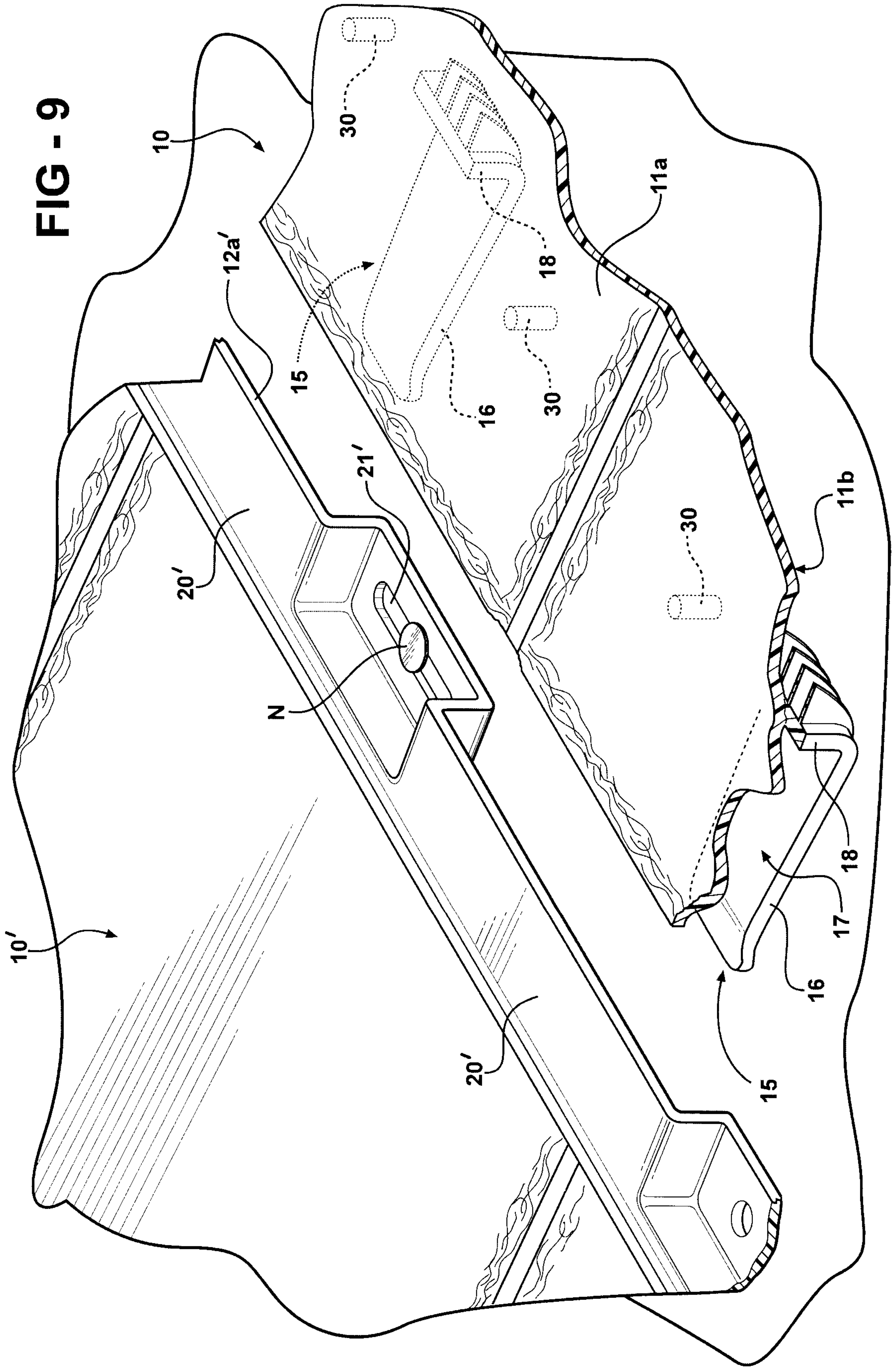


FIG - 9A

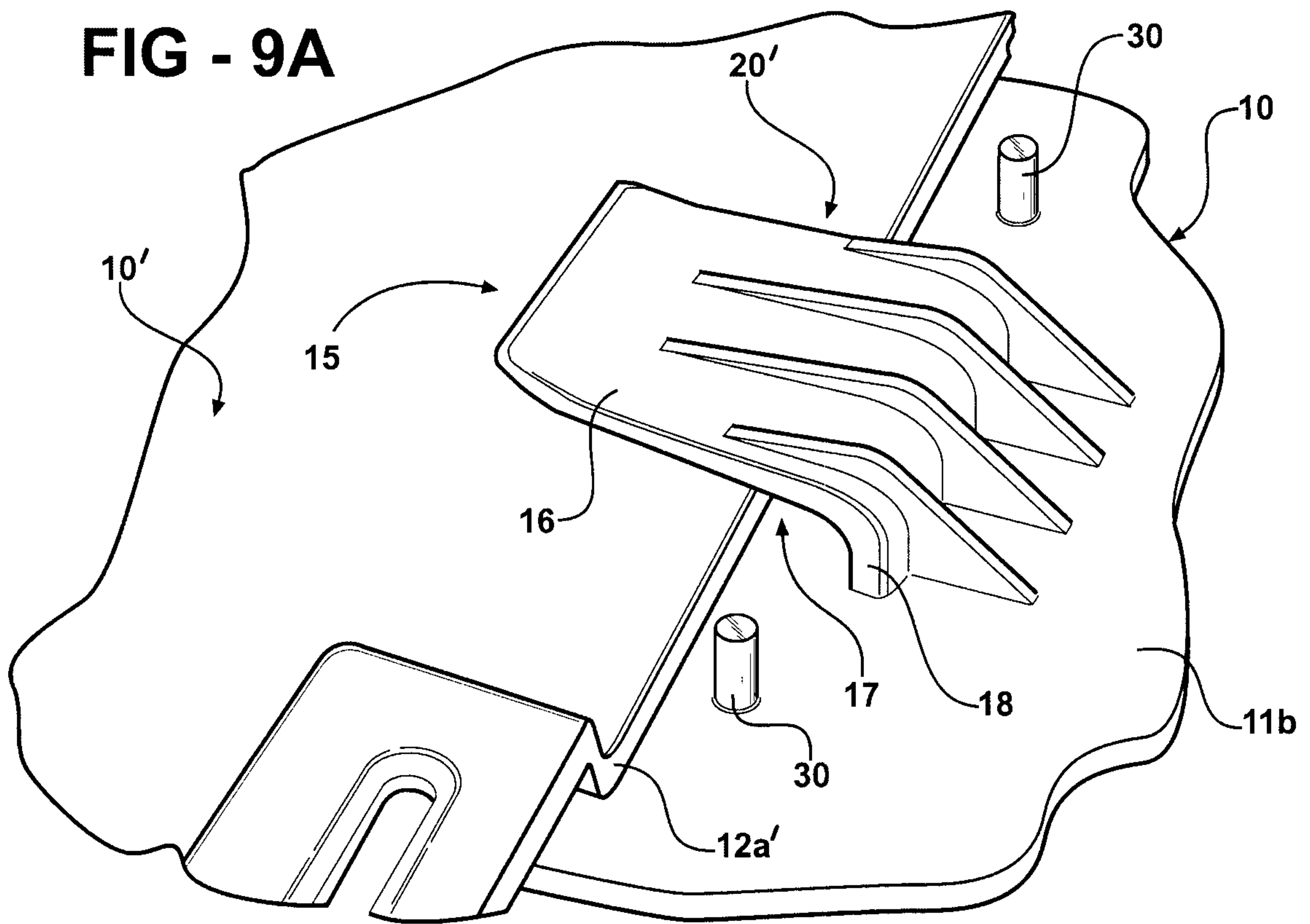


FIG - 9B

