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(54) **WALL BEAD**

WANDLEISTE

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Description

[0001] The present invention relates to a wall bead for applying across two adjoining surfaces of a wall, such as a corner, prior to the application of a surface coating thereto.

[0002] It is well known to apply a surface coating of plaster or other render material, to ceilings and other wall surfaces in buildings. Generally, prior to applying the plaster or the material, an elongate bead of metal is applied along external corners where two intersecting surfaces meet, in order to enable a good finish to be achieved to the corner. The bead also acts to strengthen and protect the corner.

[0003] US Patent No 4,876,837 discloses a typical corner bead which is formed from an elongate strip of sheet metal and comprises a rounded nose and two mounting flanges extending perpendicular to each other from the opposite sides of the nose. The mounting flanges are apertured to provide a key for the overlying plaster or render.

[0004] The corner bead is applied to a corner by passing nails or screws through the apertured mounting flanges into the underlying wall material. However, a disadvantage of this arrangement is that the underlying wall material is often too hard or too soft to readily accept nails or screws and thus the process of applying corner beads can be difficult and time consuming. In order to overcome this problem, it has been proposed to attach corner beads using an adhesive. However, the corner beads have to be held in place whilst the adhesive sets and it will be appreciated that this is equally as difficult as permanently securing the corner beads. Another disadvantage of using adhesive is that the adhesive has to be allowed to set before the underlying wall is plastered or rendered.

[0005] US Patent No 5,778,617 discloses a corner bead which attempts to overcome the above-mentioned problems and which comprises a plurality of integral pre-formed barbs along its length for securing the corner bead to underlying wall surfaces formed of plasterboard or other drywall material. In use, when a corner bead is applied to the plasterboard the barbs penetrate the outer layer of the plasterboard and temporarily secure the corner bead to the corner whilst it is plastered over. A disadvantage of this arrangement is that the barbs extend substantially perpendicular to the bead and so once the bead has been fixed to the wall surface it can be very difficult to remove or reposition the bead without unduly damaging the underlying plasterboard.

[0006] Document DE 10 2006 6053867 A1 discloses a wall bead with the characteristics of the preamble of claim 1 and a method of manufacturing a wall bead with the characteristics of the preamble of claim 12.

[0007] According to the present invention there is provided a wall bead according to claim 1 and a method of manufacturing a wall bead according to claim 12.

[0008] Since all the teeth are arranged to extend along

a common direction, then the wall bead can couple with a plasterboard for example, by pushing the wall bead into and along the plasterboard, so as to "hook" the wall bead onto the plasterboard. If it becomes necessary to reposition the wall bead, then the wall bead can be lifted off the plasterboard so as to release the teeth and thus "unhook" the wall bead without tearing the plasterboard. Preferably, the teeth comprise first blades configured to extend from the front surface of the respective flange and the wall bead further comprises a corresponding plurality of second blades disposed upon the first and second flanges, each second blade extending generally perpendicularly forwardly of the front surface of the respective flange, and the first and second blades being arranged in spaced pairs at longitudinal positions along the respective flange.

[0009] Each blade may comprise a pointed distal end and is generally triangular in shape. Alternatively, each blade may comprise a generally straight distal end and generally has the shape of a truncated triangle.

[0010] Preferably, each blade comprises a cutting edge having a non-linear profile.

[0011] Alternatively, the teeth may comprise barbs configured to extend from a longitudinal edge of the respective flange.

[0012] The first and second flanges preferably extend from opposite sides of a central longitudinally-extending portion of the wall bead. In an embodiment, the first and second flanges preferably extend in substantially the same plane. It is envisaged that wall bead would find suitable application in bridging across joints between boards that extend in substantially the same plane.

[0013] In an embodiment the front surface of the first and second flanges are preferably angularly spaced about the central longitudinally-extending portion by an angle less than 180°. Preferably, the angular spacing between the front surface of the first and second flange is substantially 90°. Alternatively, the angular spacing between the front surface of the first and second flange is substantially 45°. It is envisaged that the wall bead would find suitable application in covering external corners between plasterboards.

[0014] In an embodiment the front surface of the first and second flanges are preferably angularly spaced about the central longitudinally-extending portion by an angle greater than 180°. It is envisaged that the wall bead would find suitable application in covering internal corners between plasterboards.

[0015] Preferably, the first and second flanges are apertured to provide a key for overlying plaster or render. Preferably, the apertures on the first and second flange further provide for additional fixing of the wall bead to a wall using screws and nails, for example.

[0016] Embodiments of the present invention will now be described by way of example only and with reference to the accompanying drawings, in which:

Figure 1a is perspective view of a section of a wall

bead according to a first embodiment of the wall bead of the invention;

Figure 1b is a sectional view across the wall bead of figure 1a, taken along line A-A;

Figure 1c is a sectional view across the wall bead of figure 1a, taken along line B-B.

Figure 2a is perspective view of a wall bead according to a second embodiment of the wall bead of the invention;

Figure 2b is a sectional view across the wall bead of figure 2a, taken along line C-C;

Figure 2c is a sectional view across the wall bead of figure 2a, taken along line D-D.

Figure 3a is perspective view of a section of a third embodiment of the wall bead of the invention;

Figure 3b is a sectional view across the wall bead of figure 3a, taken along line E-E;

Figure 3c is a sectional view across the wall bead of figure 3a, taken along line F-F;

Figure 4a is perspective view of a section of a fourth embodiment of the wall bead of the invention;

Figure 4b is a sectional view across the wall bead of figure 4a, taken along line H-H;

Figure 4c is a sectional view in one direction across the wall bead of figure 4a, taken along line G-G;

Figure 4d is a sectional view in the opposite direction across the wall bead of figure 4a, taken along line G-G;

Figure 5 a sectional view in one direction across a fifth embodiment of the wall bead of the invention;

Figure 6a a sectional view in one direction across a sixth embodiment of the wall bead of the invention;

Figure 6b a sectional view in the opposite direction across the wall bead of the sixth embodiment of the wall bead of the invention; and

Figure 7 shows the steps of a method of manufacturing a wall bead according to the invention.

[0017] Referring to figure 1, there is illustrated a wall bead 10 according to a first embodiment of the invention which may be roll-formed from an elongate strip of galvanised steel, for example. The wall bead 10 comprises

a first and second elongate flange 11, 12, which separately extend from one side of a central, longitudinally-extending portion 13 of the wall bead 10. The wall bead further comprises a plurality of teeth, in the form of barbs 16, longitudinally spaced along the first and second flanges.

[0018] The first and second flanges 11, 12 are formed integrally with the central longitudinally-extending portion 13 and extend along the wall bead 10. The first and second flanges 11, 12 separately comprise a front 11 a, 12a and rear surface 11 b, 12b, and a plurality of apertures 14 which extend along each flange 11, 12 to provide a key for overlying plaster or render (not shown). The wall bead 10 comprises a plurality of substantially elliptical apertures 14a disposed along a central longitudinal axis of each flange 11, 12 and a plurality of substantially circular apertures 14b, disposed proximate to a distal longitudinal edge 11c, 12c of each flange 11, 12.

[0019] In this embodiment, alternate circular apertures 14b formed in the first and second flange 11, 12 are opened by a cut 15, which extends from the respective aperture 14b through the distal longitudinal edge 11c, 12c of the respective flange 11, 12. The cuts 15 are formed at an acute angle to the distal longitudinal edge 11c, 12c of the respective flange 11, 12, so that upon deforming the portion of the wall bead 10 between the circular aperture 14b and the respective adjacent, distal edge 11c, 12c, out of the plane of the respective flange 11, 12, a barb 16 is formed.

[0020] Each barb 16 is turned away from the plane of the first and second flange 11, 12 in a direction that is forwardly of the front surface 11a, 12a of the respective flange 11, 12 and is arranged to extend at an acute angle to the plane of the respective flange 11, 12, so that each barb 16 extends in a direction that is substantially along the respective flange 11, 12. The cuts 15 formed along the wall bead 10 are similarly orientated so that each barb 16 is substantially the same size and extends in substantially the same direction.

[0021] In this embodiment, the first and second flanges 11, 12 are arranged to extend in substantially the same plane either side of the central longitudinally-extending portion 13 so that the bead 10 can be used to bridge across a join between two plasterboards (not shown) for example, which also extend in substantially the same plane.

[0022] In use, the wall bead 10 is secured to a wall (not shown) by first cutting the wall bead 10 to the appropriate length and then aligning the wall bead 10 to the wall so that the central, longitudinally-extending portion 13 extends substantially along a join between plasterboards on the wall for example, with the barbs 16 directed substantially downwardly of the wall. The wall bead 10 is then pushed against the wall, so that the first and second flanges 11, 12 extend to either side of the join between the plasterboards, for example, and so that the barbs 16 penetrate the plasterboard surface. The wall bead 10 is then moved downwardly relative to the plasterboards, so

that the wall bead 10 becomes hooked onto the plasterboards by the barbs 16. If further fixing is required then screws and nails (not shown) for example, may be passed in to the wall through the apertures 14 formed on the wall bead 10.

[0023] If it becomes necessary to reposition or otherwise remove the wall bead 10, then the wall bead 10 may be lifted so as to un-hook the barbs 16 from the plasterboard and subsequently lifted away from the plasterboards. This ensures that the barbs 16 do not rip or tear the plasterboard and thus damage the boards.

[0024] Figure 2 shows a wall bead 20 according to a second embodiment of the invention. The wall bead 20 of this embodiment is substantially the same as the wall bead 10 of Figure 1, with the following modifications. The same reference numbers are retained for corresponding features.

[0025] In this embodiment, the angular spacing between the front surfaces 11a, 12a of the first and second flanges 11, 12, about the central, longitudinally-extending portion 14 is arranged to be less than 180°, such as 90°. The wall bead 20 is thus arranged to extend around an external corner between two walls (not shown), which typically form a 90°. It is to be appreciated however, that the angular spacing between the front surfaces 11a, 12a of the first and second flanges 11, 12 about the central, longitudinally-extending portion 13, can be arranged to accommodate external corners formed with any angular separation of walls.

[0026] The central, longitudinally-extending portion 13 comprises an arcuate nose 17 portion which extends between the first and second flange 11, 12. The nose portion 17 extends slightly above the plane of the first and second flange 11, 12 to provide a lip 18 that is used as a finishing edge for the overlying plaster or render (not shown) for example.

[0027] Referring to figure 3 of the drawings, there is illustrated a wall bead 30 according to a third embodiment of the invention. The wall bead 30 of this embodiment is substantially the same as the wall bead 10 of Figure 1, with the following modifications. The same reference numbers are retained for corresponding features.

[0028] In this embodiment the angular spacing between the front surfaces 11a, 12a of the first and second flanges 11, 12, about the central, longitudinally-extending portion 13 is arranged to be greater than 180°, such as 270°. Such an embodiment is arranged to extend around an internal corner (not shown) between two walls (not shown), which typically form a 90°. It is to be appreciated however, that the angular spacing between the front surfaces 11a, 12a of the first and second flanges 11, 12 about the central, longitudinally-extending portion 13, can be arranged to accommodate internal corners formed with any angular separation of walls.

[0029] Figure 4 shows a wall bead 40 according to a fourth embodiment of the invention. The wall bead 40 is substantially the same as the wall bead 30 of Figure 3, with the following modifications. The same reference

numbers are retained for corresponding features.

[0030] In this embodiment, the teeth take the form of a plurality of first blades 42 provided on the first and second flange 11, 12 at longitudinal positions along the flange. The first blades 42 extend at an acute angle to the respective flange 11, 12, substantially forwardly of the respective flange. The first blades 42 extend generally in the longitudinal direction of the respective flange 11, 12, along a common direction.

[0031] The wall bead 40 further comprises a corresponding plurality of second blades 44 provided on the first and second flanges 11, 12. The second blades 44 extend generally perpendicularly forwardly of a front surface of the respective flange, as seen most clearly in Figure 4b. The first and second blades 42, 44 are arranged in spaced pairs, at longitudinal positions along the respective flange 11, 12.

[0032] In this example, each blade 42, 44 is generally triangular in shape and has a pointed distal end, as seen in Figure 4c and d.

[0033] The first and second blades 42, 44 are formed by first and second cuts extending at an angle from the edge of the respective flange 11, 12 towards the longitudinally-extending portion 13. The sections of flange 11, 12 between the edge and the respective cut are then pushed generally away from the respective flange 11, 12, until each section extends generally forwardly at an acute angle to the flange 11, 12. A triangular section of material is left between the two blade sections, and this can be cut and removed.

[0034] In use, the wall bead 40 is secured to a wall by cutting the wall bead 40 to an appropriate length and aligning the wall bead 40 to the wall so that the central, longitudinally-extending portion 13 extends substantially along a join between plasterboards on the wall. With the first blades 42 orientated generally downwardly of the wall, the wall bead 40 is pushed against the wall, and downwardly towards the wall, so that the first blades 42 penetrate the plasterboard surface in the direction of movement of the wall bead 40. The second blades 44 are also pushed into the plasterboard surface during this movement, and are additionally caused to deform, being bent as the wall bead 40 is moved. The teeth blades 42, 44 thereby engage with the plasterboard, and fix the wall bead 40 in place on the plasterboard. If further fixing is required, screws or nails may be located through one or more of the apertures 14 into the plasterboard.

[0035] A fifth embodiment of the invention provides a wall bead 50 as shown in cross-section in Figure 5. The wall bead 50 is substantially the same as the wall bead 40 of Figure 4, with the following modifications. The same reference numbers are retained for corresponding features.

[0036] In this embodiment, the first blades 52 have a generally straight distal end 52a, and generally have the shape of a truncated triangle, that is a triangle having one corner removed.

[0037] A sixth embodiment of the invention provides a

wall bead 60 as shown in cross section in one direction in Figure 6a and in cross section in the other direction in Figure 6b. The wall bead 60 is substantially the same as the wall bead 40 of Figure 4, with the following modifications. The same reference numbers are retained for corresponding features.

[0038] In this embodiment, the first blades 62 have a generally square shape with a forward most edge 62a, being the cutting edge, having a non-linear profile. In this example, the cutting edge has a waved profile. The second blades 64 are similarly generally square shaped with a complimentary non-linear (wavy) profiled cutting edge 64a.

[0039] A seventh embodiment of the invention provides a method 70 of manufacturing a wall bead, the steps of which are shown in Figure 7.

[0040] The method 70 comprises:

- providing a wall bead comprising a central longitudinally extending portion and a first and second elongate flange which extend longitudinally of the bead, and which separately comprise a front and rear surface 72;
- forming a plurality of cuts in each elongate flange, each cut extending from an elongate edge of the respective elongate flange towards the central longitudinally extending portion 74; and
- pushing each section of flange located between a respective elongate edge and a respective cut generally away from the respective elongate flange until each said section extends generally forwardly of the respective elongate flange at an acute angle to the respective flange, to thereby form a plurality of teeth extending generally in the longitudinal direction of the respective flange, along a common direction 76.

[0041] From the foregoing therefore, it is evident that the wall beads described above provide a simple yet effective means of fixing and re-positioning a wall bead to a wall.

Claims

1. A wall bead (10, 40, 50, 60), the wall bead (10, 40, 50, 60) comprising a central longitudinally extending portion (13) and a first (11) and second (12) elongate flange which extend longitudinally of the bead (10, 40, 50, 60), and which separately comprise a front (11 a, 12a) and rear surface (11 b, 12b), the wall bead (10, 40, 50, 60) further comprising a plurality of teeth disposed upon the first (11) and second flange (12) at longitudinal positions thereon, wherein all the teeth extend in or substantially in the same direction, **characterised in that:** the teeth extend from a longitudinal edge of a respective flange (11, 12) at an acute angle to the respective flange (11, 12), substantially forwardly of the respective flange

(11, 12) and generally in the longitudinal direction of the respective flange (11, 12); wherein the teeth are arranged to hook the wall bead (10, 40, 50, 60) into a plasterboard.

2. A wall bead (10, 40, 50, 60) as claimed in claim 1, wherein the teeth take the form of a plurality of first blades (42, 62) configured to extend from the front surface of the respective flange (11, 12) and the wall bead (40, 50, 60) further comprises a corresponding plurality of second blades (44, 64) disposed upon the first (11) and second (12) flanges, each second blade extending generally perpendicularly forwardly of the front surface of the respective flange (11a, 12a), and the first and second blades being arranged in spaced pairs at longitudinal positions along the respective flange (11, 12).
3. A wall bead (10, 40, 50, 60) as claimed in claim 2, wherein each blade (42, 44) comprises a pointed distal end and is generally triangular in shape.
4. A wall bead (10, 40, 50, 60) as claimed in claim 2, wherein each blade (52) comprises a generally straight distal end (52a) and generally has the shape of a truncated triangle.
5. A wall bead (10, 40, 50, 60) as claimed in any of claims 2 to 4, wherein each blade (62, 64) comprises a cutting edge (62a, 64a) having a non-linear profile.
6. A wall bead (10, 40, 50, 60) as claimed in any preceding claim, wherein the first and second flanges (11, 12) extend from opposite sides of the central longitudinally-extending portion (13) of the wall bead (10, 40, 50, 60).
7. A wall bead (10, 40, 50, 60) as claimed in any preceding claim, wherein the first and second flanges (11, 12) extend in substantially the same plane.
8. A wall bead (10, 40, 50, 60) as claimed in any of claims 1 to 6, wherein the front surface (11a, 12a) of the first and second flanges (11, 12) are angularly spaced about the central longitudinally-extending portion (13) by an angle less than 180°.
9. A wall bead (10, 40, 50, 60) as claimed in claim 8, wherein the angular spacing between the front surface (11a, 12a) of the first and second flange (11, 12) is substantially 90°.
10. A wall bead (10, 40, 50, 60) as claimed in claim 8 or claim 9, wherein the angular spacing between the front (11a, 12a) of the first and second flange (11, 12) is substantially 45°.
11. A wall bead (10, 40, 50, 60) as claimed in any of

claims 1 to 6, wherein the front surface (11 a, 12a) of the first and second flanges (11, 12) are angularly spaced about the central longitudinally-extending portion (13) by an angle greater than 180°.

12. A method of manufacturing a wall bead (10, 40, 50, 60), the method comprising:

providing a wall bead (10, 40, 50, 60) comprising a central longitudinally extending portion (13) and a first and second elongate (11, 12) which extend longitudinally of the bead, and which separately comprise a front and rear surface (11a, 12a, 11b, 12b); **characterised in that** the method comprises the additional steps of:

forming a plurality of cuts (15) in each elongate flange (11, 12), each cut (15) extending from an elongate edge of the respective elongate flange towards the central longitudinally extending portion (74); and pushing each section of flange located between a respective elongate edge and a respective cut (15) generally away from the respective elongate flange (11,12) until each said section extends generally forwardly of the respective elongate flange (11,12) at an acute angle to the respective flange (11,12), to thereby form a plurality of teeth extending generally in the longitudinal direction of the respective flange (11,12), and wherein all the teeth extend in or substantially in the same direction.

Patentansprüche

1. Wandleiste (10, 40, 50, 60), wobei die Wandleiste (10, 40, 50, 60) einen mittigen sich longitudinal erstreckenden Abschnitt (13) und einen ersten (11) und zweiten (12) länglichen Flansch umfasst, die sich longitudinal der Leiste (10, 40, 50, 60) erstrecken, und die getrennt eine vordere (11a, 12a) und hintere Oberfläche (11b,12b) umfassen, wobei die Wandleiste ferner eine Vielzahl von Zähnen umfasst, die auf dem ersten (11) und zweiten (12) Flansch an longitudinalen Positionen darauf angeordnet sind, wobei sich alle der Zähne in oder im Wesentlichen in die gleiche Richtung erstrecken, **dadurch gekennzeichnet, dass** sich die Zähne ab einer longitudinalen Kante eines jeweiligen Flansches (11, 12) in einem spitzen Winkel zum jeweiligen Flansch (11, 12), im Wesentlichen nach vom vom jeweiligen Flansch (11,12) und generell in der longitudinalen Richtung des jeweiligen Flansches (11, 12) erstrecken, wobei die Zähne eingerichtet sind, die Wandleiste (10,40, 50, 60) in eine Gipsplatte zu haken.

2. Wandleiste (10, 40, 50, 60) wie in Anspruch 1 beansprucht, wobei die Zähne die Form einer Vielzahl von Klingen (42, 62) annehmen, die konfiguriert sind, sich ab der vorderen Oberfläche des jeweiligen Flansches (11, 12) erstrecken und die Wandleiste (40, 50, 60) ferner eine entsprechende Vielzahl von zweiten Klingen (44, 64) umfasst, die an den ersten (11) und zweiten (12) Flanschen angeordnet sind, wobei sich jede zweite Klinge generell senkrecht nach vom von der vorderen Oberfläche des jeweiligen Flansches (11a, 12a) erstreckt, und die ersten und zweiten Klingen in beabstandeten Paaren in longitudinalen Positionen entlang des jeweiligen Flansches (11, 12) angeordnet sind.

3. Wandleiste (10, 40, 50, 60) wie in Anspruch 2 beansprucht, wobei jede Klinge (42, 44) ein spitzes distales Ende umfasst und generell dreieckiger Form ist.

4. Wandleiste (10,40, 50, 60) wie in Anspruch 2 beansprucht, wobei jede Klinge (52) ein generell gerades distales Ende (52a) umfasst und generell die Form eines abgeschnittenen Dreiecks aufweist.

5. Wandleiste (10, 40, 50, 60) wie in einem der Ansprüche 2 bis 4 beansprucht, wobei jede Klinge jede Klinge (62, 64) eine Schnittkante (62a, 64a) mit einem nicht linearen Profil umfasst.

6. Wandleiste (10, 40, 50, 60) wie in einem vorhergehenden Anspruch beansprucht, wobei sich die ersten und zweiten Flansche (11, 12) ab entgegengesetzten Seiten des mittigen sich longitudinal erstreckenden Abschnitts (13) der Wandleiste (10, 40, 50, 60) erstrecken.

7. Wandleiste (10, 40, 50, 60) wie in einem vorhergehenden Anspruch beansprucht, wobei sich die ersten und zweiten Flansche (11, 12) im Wesentlichen in der gleichen Ebene erstrecken.

8. Wandleiste (10, 40, 50, 60) wie in einem der Ansprüche 1 bis 6 beansprucht, wobei die vordere Oberfläche (11a, 12a) der ersten und zweiten Flansche (11, 12) winklig um den mittigen, sich longitudinal erstreckenden Abschnitt (13) um einen Winkel von weniger als 180° beabstandet sind.

9. Wandleiste (10, 40, 50, 60) wie in Anspruch 8 beansprucht, wobei die winklige Beabstandung zwischen der vorderen Oberfläche (11a, 12a) des ersten und zweiten Flansches (11, 12) im Wesentlichen 90° beträgt.

10. Wandleiste (10, 40, 50, 60) wie in Anspruch 8 oder Anspruch 9 beansprucht, wobei die winklige Beabstandung zwischen der vorderen Oberfläche (11a,

12a) des ersten und zweiten Flansches im Wesentlichen 45° beträgt.

11. Wandleiste (10, 40, 50, 60) wie in einem der Ansprüche 1 bis 6 beansprucht, wobei die vordere Oberfläche (11a, 12a) der ersten und zweiten Flansche (11, 12) winklig um den mittigen, sich longitudinal erstreckenden Abschnitt (13) um einen Winkel größer als 180° beabstandet sind.
12. Verfahren zur Herstellung einer Wandleiste (10, 40, 50, 60), wobei das Verfahren umfasst:

Bereitstellen einer Wandleiste (10, 40, 50, 60), die einen mittigen sich longitudinal erstreckenden Abschnitt (13) und einen ersten und zweiten länglichen Flansch (11, 12) umfasst, die sich longitudinal von der Leiste erstrecken, und welche getrennt eine vordere und hintere Oberfläche (11a, 12a, 11b, 12b) umfassen; **dadurch gekennzeichnet, dass** das Verfahren die folgenden zusätzlichen Schritte umfasst:

Bilden einer Vielzahl von Schnitten in jeden länglichen Flansch (11, 12), wobei sich jeder Schnitt ab der länglichen Kante des jeweiligen länglichen Flansches in Richtung des mittigen sich longitudinal erstreckenden Abschnitts (74) erstreckt; und
Schieben jedes Bereichs des Flansches, der sich zwischen einer jeweiligen länglichen Kante und einem jeweiligen Schnitt (15) befindet generell weg vom jeweiligen Flansch (11, 12), bis sich jeder Bereich generell nach vom des jeweiligen länglichen Flansches (11, 12) in einem spitzen Winkel zum jeweiligen Flansch (11, 12) erstreckt, um dadurch eine Vielzahl von Zähnen zu bilden, die sich generell in der longitudinalen Richtung des jeweiligen Flansches (11, 12) erstrecken, und wobei sich alle der Zähne im Wesentlichen in die gleiche Richtung erstrecken.

Revendications

1. Une protection d'arête de mur (10, 40, 50, 60), la protection d'arête de mur (10, 40, 50, 60) comprenant une partie centrale s'étendant longitudinalement (13) et une première (11) et une deuxième (12) brides allongées qui s'étendent dans le sens longitudinal de la protection d'arête (10, 40, 50, 60) et qui comprennent séparément une surface avant (11a, 12a) et une surface arrière (11b, 12b), la protection d'arête de mur (10, 40, 50, 60) comprenant en outre une pluralité de dents disposées sur les première (11) et deuxième brides (12) au niveau de positions

longitudinales sur celles-ci, où la totalité des dents s'étendent dans ou sensiblement dans la même direction, **caractérisé en ce que** les dents s'étendent à partir d'un bord longitudinal d'une bride respective (11, 12) à un angle aigu par rapport à la bride respective (11, 12), sensiblement vers l'avant de la bride respective (11, 12) et généralement dans la direction longitudinale de la bride respective (11, 12), où les dents sont agencées de façon à accrocher la protection d'arête de mur (10, 40, 50, 60) à une plaque de plâtre.

2. Une protection d'arête de mur (10, 40, 50, 60) selon la Revendication 1, où les dents prennent la forme d'une pluralité de premières lames (42, 62) configurées de façon à s'étendre à partir de la surface avant de la bride respective (11, 12) et la protection d'arête de mur (40, 50, 60) comprend en outre une pluralité correspondante de deuxième lames (44, 64) disposées sur les première (11) et deuxième (12) brides, chaque deuxième lame s'étendant généralement perpendiculairement vers l'avant de la surface avant de la bride respective (11a, 12a), et les premières et deuxième lames étant agencées en paires espacées à des positions longitudinales le long de la bride respective (11, 12).
3. Une protection d'arête de mur (10, 40, 50, 60) selon la Revendication 2, où chaque lame (42, 44) comprend une extrémité distale pointue et est de forme généralement triangulaire.
4. Une protection d'arête de mur (10, 40, 50, 60) selon la Revendication 2, où chaque lame (52) comprend une extrémité distale généralement droite (52a) et possède généralement la forme d'un triangle tronqué.
5. Une protection d'arête de mur (10, 40, 50, 60) selon l'une quelconque des Revendications 2 à 4, où chaque lame (62, 64) comprend une arête de coupe (62a, 64a) possédant un profil non linéaire.
6. Une protection d'arête de mur (10, 40, 50, 60) selon l'une quelconque des Revendications précédentes, où les première et deuxième brides (11, 12) s'étendent à partir de côtés opposés de la partie centrale s'étendant longitudinalement (13) de la protection d'arête de mur (10, 40, 50, 60).
7. Une protection d'arête de mur (10, 40, 50, 60) selon l'une quelconque des Revendications précédentes, où les première et deuxième brides (11, 12) s'étendent dans sensiblement le même plan.
8. Une protection d'arête de mur (10, 40, 50, 60) selon l'une quelconque des Revendications 1 à 6, où la surface avant (11a, 12a) des première et deuxième

brides (11, 12) est angulairement espacée autour de la partie centrale s'étendant longitudinalement (13) d'un angle inférieur à 180°.

9. Une protection d'arête de mur (10, 40, 50, 60) selon la Revendication 8, où l'espacement angulaire entre la surface avant (11a, 12a) des première et deuxième brides (11, 12) est sensiblement de 90°. 5

10. Une protection d'arête de mur (10, 40, 50, 60) selon la Revendication 8 ou 9, où l'espacement angulaire entre la surface avant (11a, 12a) des première et deuxième brides est sensiblement de 45°. 10

11. Une protection d'arête de mur (10, 40, 50, 60) selon l'une quelconque des Revendications 1 à 6, où la surface avant (11a, 12a) des première et deuxième brides (11, 12) est angulairement espacée autour de la partie centrale s'étendant longitudinalement (13) d'un angle supérieur à 180°. 15
20

12. Un procédé de fabrication d'une protection d'arête de mur (10, 40, 50, 60), le procédé comprenant :
 - la fourniture d'une protection d'arête de mur (10, 40, 50, 60) comprenant une partie centrale s'étendant longitudinalement (13) et une première et deuxième brides allongées (11, 12) qui s'étendent dans le sens longitudinal de la protection d'arête et qui comprennent séparément une surface avant et une surface arrière (11a, 12a, 11b, 12b), **caractérisé en ce que** le procédé comprend les opérations additionnelles suivantes : 25
30
35
 - la formation d'une pluralité de découpes (15) dans chaque bride allongée (11, 12), chaque découpe (15) s'étendant à partir d'un bord allongé de la bride allongée respective vers la partie centrale s'étendant longitudinalement (74), et 40
 - la poussée de chaque section de bride située entre un bord allongé respectif et une découpe respective (15) généralement à l'écart de la bride allongée respective (11, 12) jusqu'à ce que chacune desdites sections s'étende généralement vers l'avant de la bride allongée respective (11, 12) à un angle aigu par rapport à la bride respective (11, 12), de façon à former ainsi une pluralité de dents s'étendant généralement dans la direction longitudinale de la bride respective (11, 12), et où la totalité des dents s'étendent dans ou sensiblement dans la même direction. 45
50
55

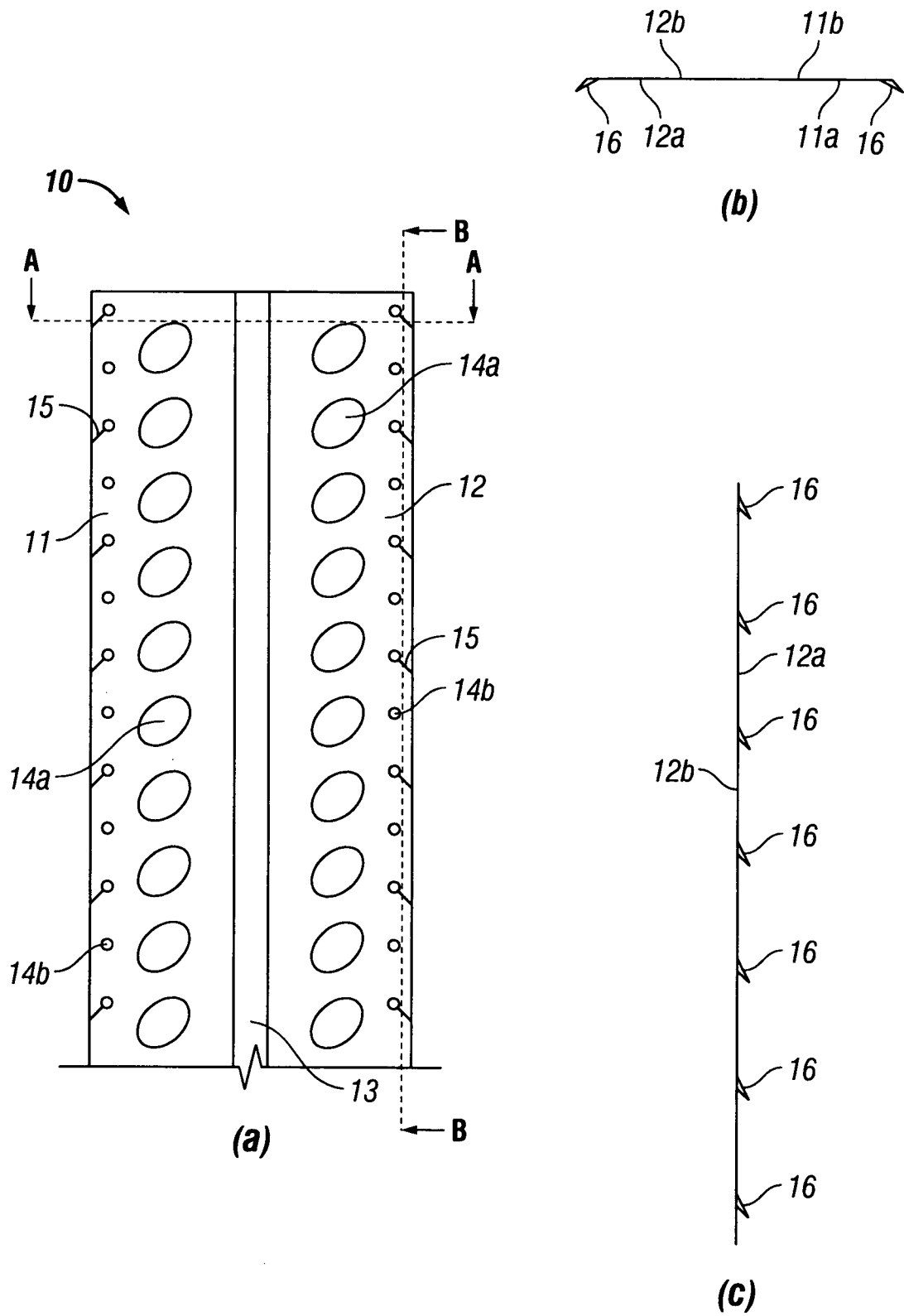


FIG. 1

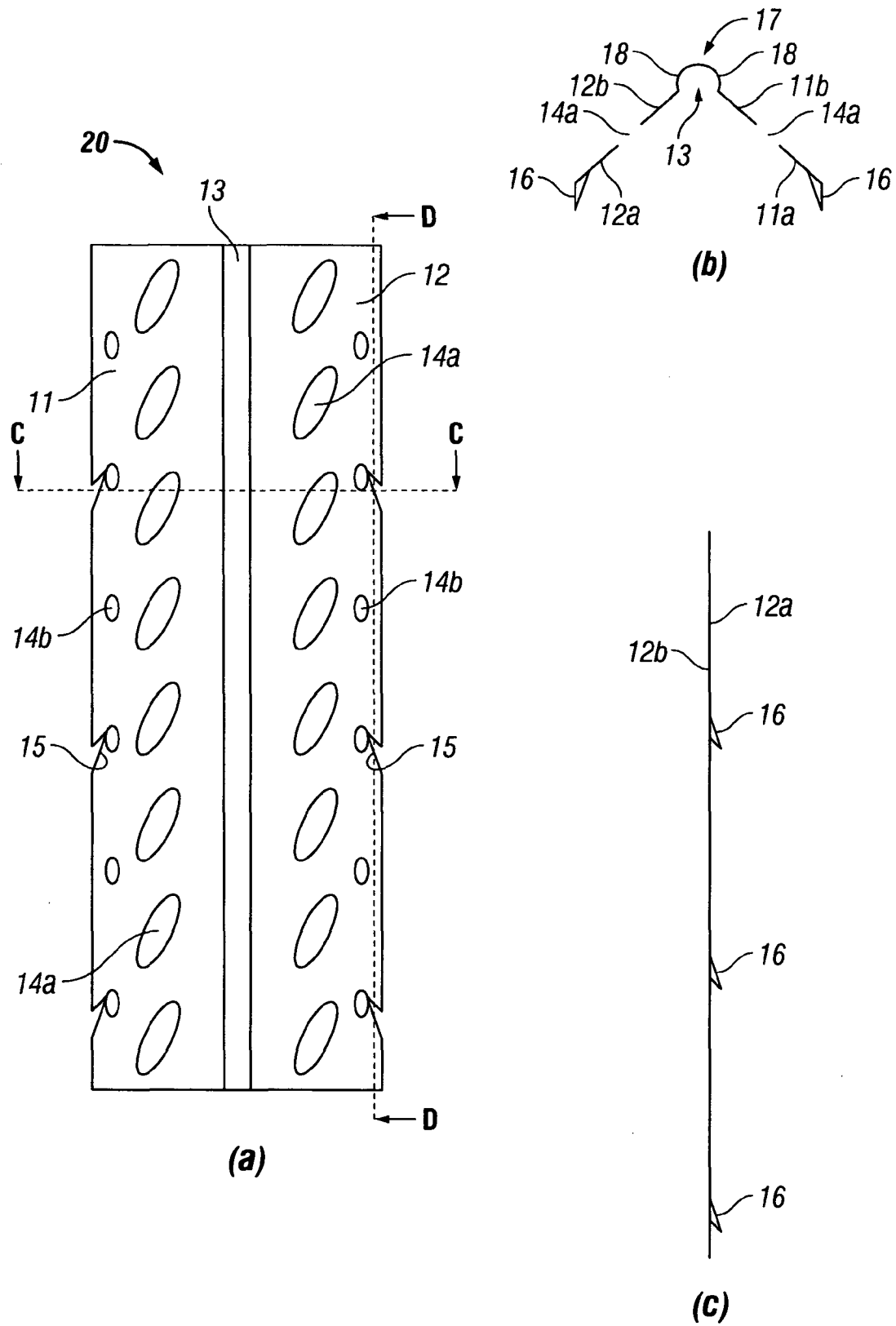


FIG. 2

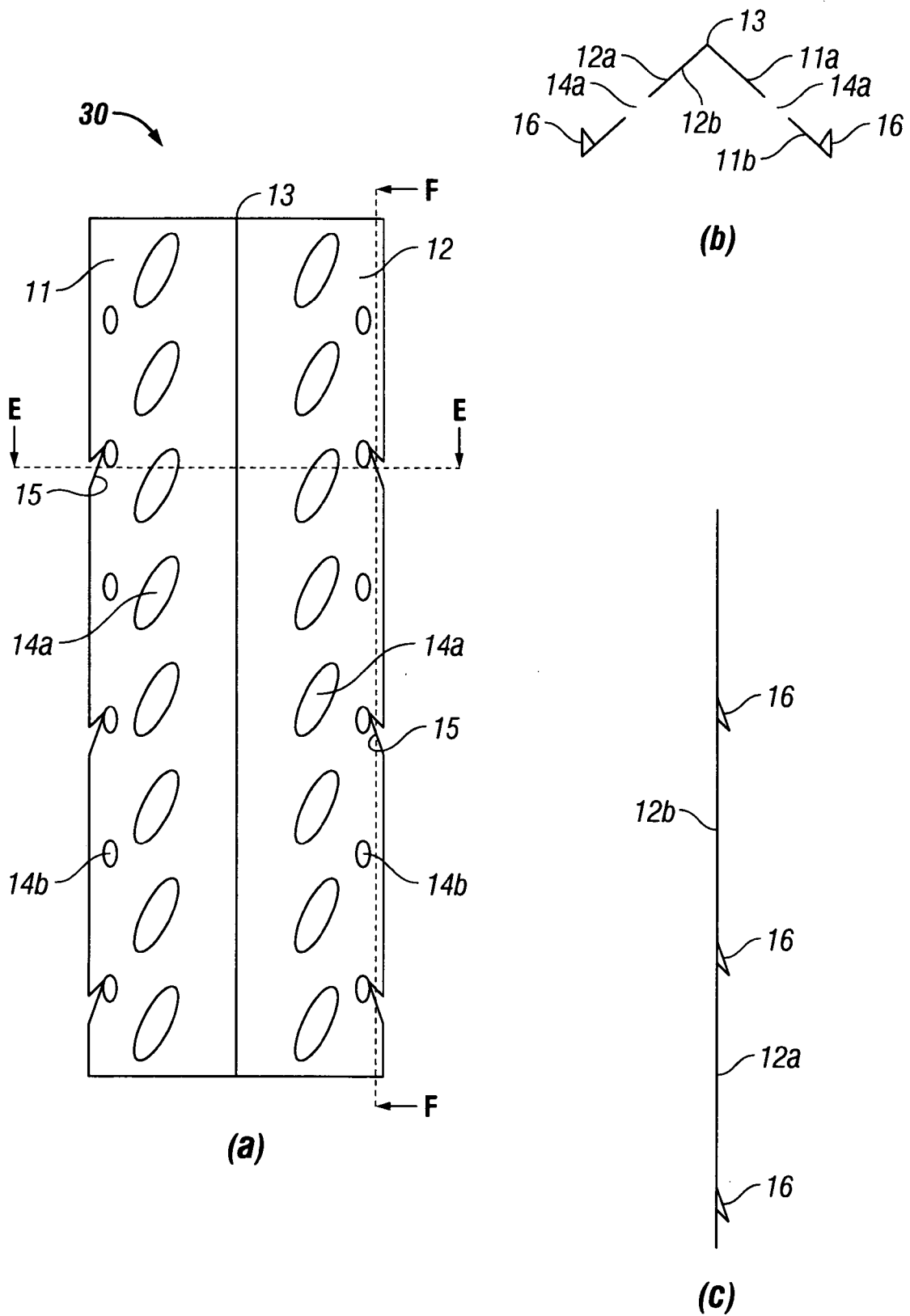


FIG. 3

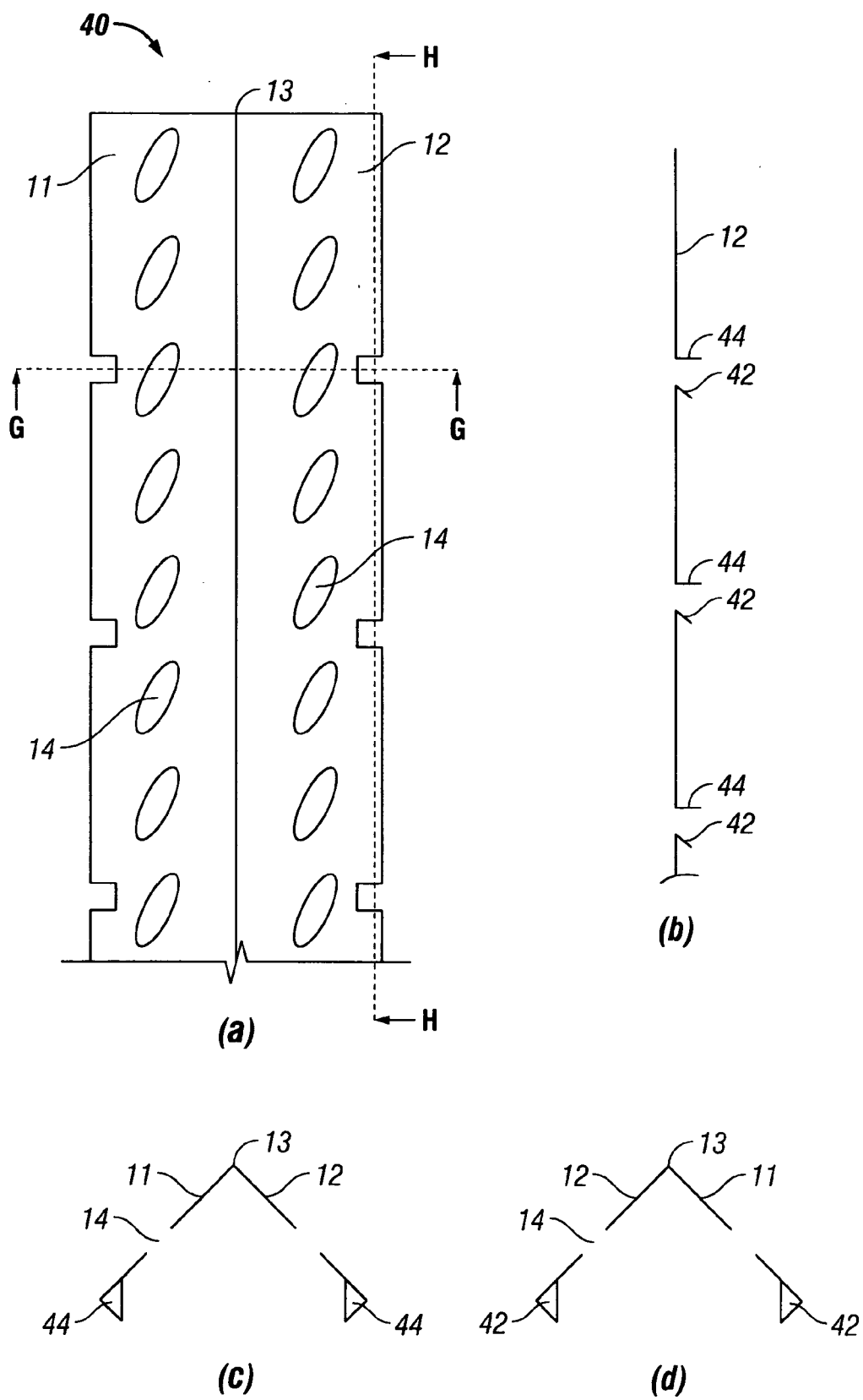


FIG. 4

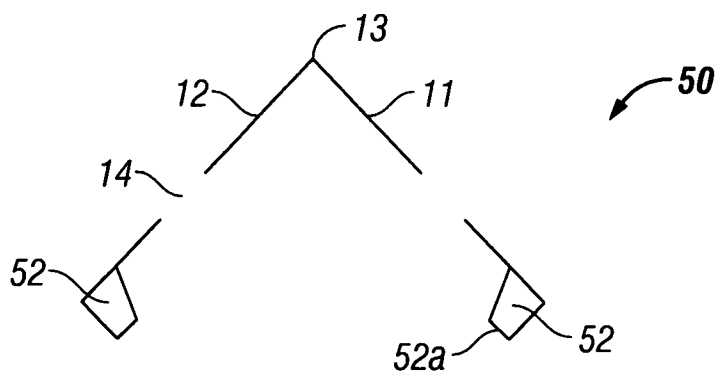
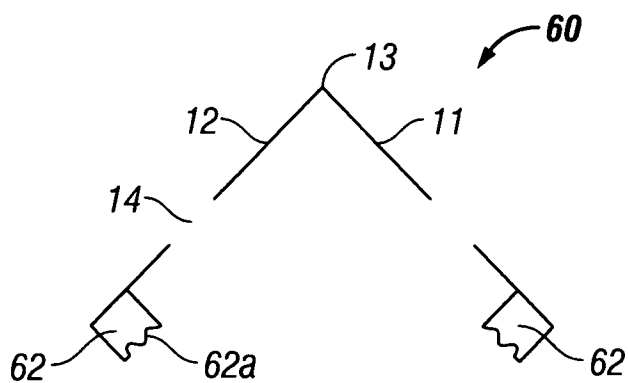
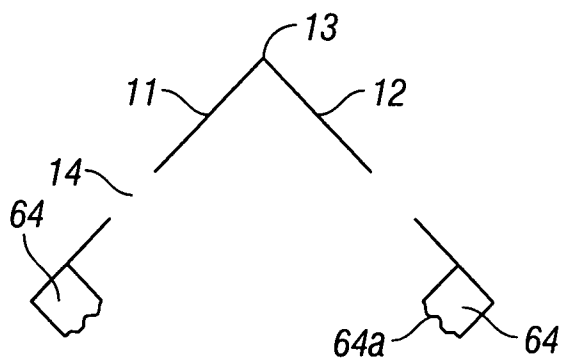


FIG. 5



(a)



(b)

FIG. 6

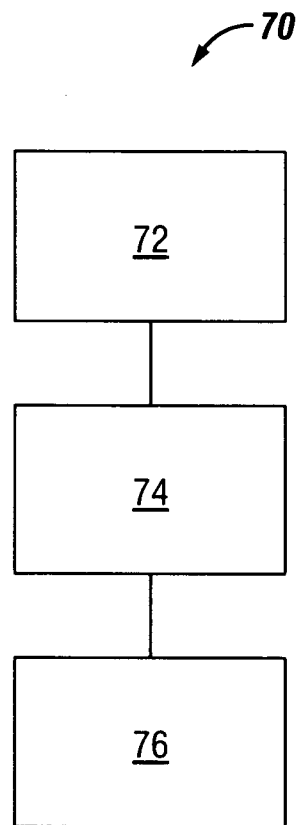


FIG. 7

REFERENCES CITED IN THE DESCRIPTION

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GYÖNGYLÉC

SZABADALMI IGÉNYPONTOK



1. Gyöngyléc (10, 40, 50, 60), ahol a gyöngyléc (10, 40, 50, 60) központi elrendezésű, hosszirányban húzó-dó gerinccel (13), valamint hosszirányú első (11) és második (12), a gyöngyléc mentén (10, 40, 50, 60) húzó-dó hosszúkas peremmel van ellátva, amelyek külön-külön mellső (11a, 12a) és hátsó felülettel (11b, 12b) vannak kialakítva, és a gyöngyléc (10, 40, 50, 60) tartalmaz továbbá számos fogat, amelyek az első (11) és a második peremen (12) annak hosszában vannak elrendezve, és ahol az egyes fogak lényegében azonos irányban állnak, **azzal jellemezve**, hogy a fogak a megfelelő perem (11, 12) hosszanti széléből állnak ki, és a megfelelő peremmel (11, 12) hegyesszöveget zárnak be, és a megfelelő perem (11, 12), hossziránya mentén lényegében előre felé nyúlnak ki a megfelelő peremből (11, 12), ahol a fogak arra szolgálnak, hogy a gyöngylécet (10, 40, 50, 60) gipszkarton lemezhez rögzítsék.
2. Az 1. igénypont szerinti gyöngyléc (10, 40, 50, 60), ahol a fogak számos első pengével (42, 62) vannak kiképezve, amelyek úgy vannak kialakítva, hogy a megfelelő perem (11, 12) mellső felületéből kiállnak, és a gyöngyléc (40, 50, 60) továbbá tartalmaz számos második pengét (44, 64), amelyek az első (11) és a második (12) peremeken vannak elrendezve, ahol minden második penge lényegében merőlegesen előrenyúlik a megfelelő perem (11a, 12a) mellső felületéből, és az első, valamint a második pengék úgy vannak elrendezve, hogy egymástól bizonyos távolságra lévő párokat alkotnak a megfelelő perem (11, 12) hossziránya mentén.
3. A 2. igénypont szerinti gyöngyléc (10, 40, 50, 60), ahol minden egyes penge (42, 44) hegyes külső véggel, és lényegében háromszög alakban van kiképezve.
4. A 2. igénypont szerinti gyöngyléc (10, 40, 50, 60), ahol az egyes pengék (52) lényegében egyenes külső vége (52a) van, és lényegében czonka háromszög alakjuk van.
5. A 2-4. igénypontok bármelyike szerinti gyöngyléc (10, 40, 50, 60), ahol minden egyes pengének (62, 64) nem lineáris profilú vágóéle (62a, 64a) van.
6. Az előző igénypontok bármelyike szerinti gyöngyléc (10, 40, 50, 60), ahol az első és a második peremek (11, 12) a gyöngyléc (10, 40, 50, 60) központi elhelyezkedésű, hosszanti gerincének (13) átellenes oldalából állnak ki.
7. Az előző igénypontok bármelyike szerinti gyöngyléc (10, 40, 50, 60), ahol az első és a második peremek (11, 12) lényegében ugyanabban a síkban vannak elrendezve.

8. Az 1-6. igénypontok bármelyike szerinti gyöngyléc (10, 40, 50, 60), ahol az első és második peremek (11, 12) homlokfelületei (11a, 12a) egymástól bizonyos szögtávolságra vannak a központi, hosszirányú (13) gerinc körül, ahol a szög kisebb, mint 180° .
9. A 8. igénypont szerinti gyöngyléc (10, 40, 50, 60), ahol a szögtávolság az első és második perem (11, 12) mellő felülete (11a, 12a) között lényegében 90° .
10. A 8. vagy 9. igénypont szerinti gyöngyléc (10, 40, 50, 60), ahol a szögtávolság az első és második perem (11, 12) mellő felülete (11a, 12a) között lényegében 45° .
11. Az 1-6. igénypontok bármelyike szerinti gyöngyléc (10, 40, 50, 60), ahol az első és második peremek (11, 12) homlokfelületei (11a, 12a) bizonyos szögtávolsággal van elrendezve a központi elhelyezkedésű, hosszirányú gerinc (13) körül, ahol a szög nagyobb, mint 180° .
12. Eljárás gyöngyléc (10, 40, 50, 60) előállítására, ahol az eljárás során:
gyöngyléceket készítünk, amelynek központi elhelyezkedésű, hosszirányú gerince (13), továbbá a gyöngyléc mentén hosszirányban húzódó első és második pereme (11, 12) van, amelyeknek külön-külön homlok- és egy hátfelületeik (11a, 12a, 11b, 12b) vannak, **azzal jellemezve**, hogy az eljárás továbbá a következő lépésekből áll:
számos vágást ejtünk minden egyes hosszirányú peremen (11, 12), ahol minden egyes vágás (15) a megfelelő hosszúka perem hosszanti szélétől a központi elhelyezkedésű, hosszirányú gerinc (74) irányában terjed; és
minden egyes, a megfelelő hosszanti szél és megfelelő vágás (15) között elhelyezkedő peremszakaszt eltoljuk a megfelelő hosszúka peremtől (11, 12) mindaddig, amíg minden egyes szakasz lényegében a megfelelő hosszúka peremből (11, 12) előre felé, hegyesszögben kiáll a megfelelő perem (11, 12) irányában, és ezzel számos olyan fogat alakítunk ki, amelyek lényegében a megfelelő perem (11, 12) hosszirányában húzódnak, és ahol minden egyes fog ugyanabban az irányban vagy lényegében ugyanabban az irányban áll.