



(22) **Date de dépôt/Filing Date:** 2017/01/24

(41) **Mise à la disp. pub./Open to Public Insp.:** 2017/04/06

(45) **Date de délivrance/Issue Date:** 2018/01/02

(51) **Cl.Int./Int.Cl.** **A47B 61/04** (2006.01),
A47G 25/00 (2006.01), **A47L 23/22** (2006.01)

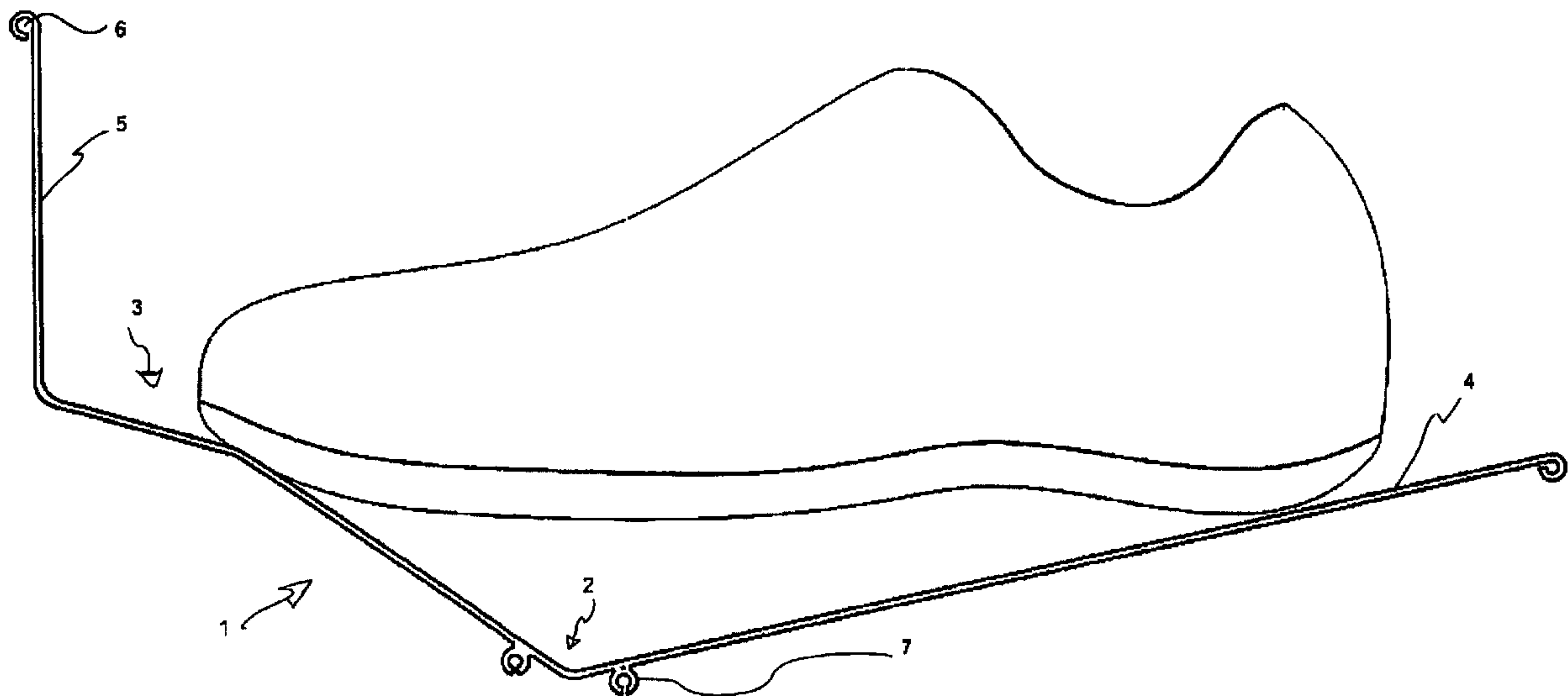
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(54) **Titre : ETAGERE ET SUPPORT A CHAUSSURES SERVANT A EVACUER L'EAU DES CHAUSSURES MOUILLEES**

(54) **Title: SHELF AND FOOTWEAR RACK FOR EVACUATING WATER FROM WET FOOTWEAR**



(57) **Abrégé/Abstract:**

Shelf for evacuating water from wet footwear, and a footwear rack equipped therewith. The shelf comprises a gutter for channeling water, a front longitudinal footwear depositing surface along one side of the gutter and a back longitudinal footwear depositing surface along another side of the gutter. The shelf also comprises an evacuation aperture in a lowermost section of the gutter. The evacuation aperture defines a channel through the shelf.



ABSTRACT

Shelf for evacuating water from wet footwear, and a footwear rack equipped therewith. The shelf comprises a gutter for channeling water, a front longitudinal footwear depositing surface along one side of the gutter and a back longitudinal footwear depositing surface along another side of the gutter. The shelf also comprises an evacuation aperture in a lowermost section of the gutter. The evacuation aperture defines a channel through the shelf.

SHELF AND FOOTWEAR RACK FOR EVACUATING WATER FROM WET FOOTWEAR

TECHNICAL FIELD

[0001] The present disclosure relates to the field of shelves and racks for footwear. More specifically, the present disclosure relates to a shelf and a footwear rack for evacuating water from wet footwear.

BACKGROUND

[0002] Storage and drying of wet footwear is a problem for many households and businesses. The problem is aggravated in wintertime when snow covered footwear enters inside the home or business, and snow melts inside creating puddles of accumulated water, sand and rocks.

[0003] To address this issue, many homeowners or business owners use a boot platter. A boot platter is a platter in which the boots are placed for collecting water and drying. The boot platter is often made of rubber, and its bottom is covered with threads for clearing a space between the bottom of the boot platter and the soles of the boots to be put for drying. Although better than nothing, the boot platter is quite difficult to clean, and removing accumulated water often proves to be a daunting task.

[0004] There is therefore a need for a shelf and footwear rack that efficiently evacuates water from wet footwear and is easy to clean.

SUMMARY

[0005] According to a first aspect, the present disclosure provides a shelf for evacuating water from wet footwear. The shelf comprises a gutter for channeling water. The shelf also comprises a front longitudinal footwear depositing surface along one side of the gutter, and a back longitudinal footwear depositing surface along another side of the

gutter. The shelf further comprises an evacuation aperture substantially in a lowermost section of the gutter. The evacuation aperture defines a channel through the shelf.

[0006] According to a second aspect, the present disclosure provides a footwear rack. The footwear rack comprises legs. The footwear rack further comprises at least one shelf for evacuating water from wet footwear. Each shelf comprises a gutter for channeling water. Each shelf also comprises a front longitudinal footwear depositing surface along one side of the gutter, and a back longitudinal footwear depositing surface along another side of the gutter. Each shelf also comprises an evacuation aperture in substantially a lowermost section of the gutter, where the evacuation aperture defines a channel through the shelf, and evacuates water.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] Embodiments of the disclosure will be described by way of example only with reference to the accompanying drawings, in which:

[0008] Figure 1 is a cross-sectional view of an example of the present shelf with a shoe resting thereon;

[0009] Figure 2 is a cross-sectional view elevation of another example of the present shelf;

[0010] Figure 3 is a partial upper perspective view of the shelf of Figure 1;

[0011] Figure 4 illustrates a partial perspective view of an exemplary footwear rack with three shelves, wherein each shelf is equipped with a receptacle and a retaining mechanism;

[0013] Figure 5 is a front side elevation of an exemplary footwear rack; and

[0014] Figure 6 is a front side elevation of the footwear rack in accordance with another embodiment.

DETAILED DESCRIPTION

[0015] The foregoing and other features will become more apparent upon reading of the following non-restrictive description of illustrative embodiments thereof, given by way of example only with reference to the accompanying drawings. Like numerals represent like features on the various drawings.

[0016] Various aspects of the present disclosure generally address one or more of the problems relates to collecting water from wet footwear.

[0017] Reference is now made concurrently to Figures 1 and 2 which represent exemplary cross-sectional views of examples of the present shelf 1. Figure 1 illustrates a cross-sectional view of the width of the shelf 1 with footwear resting thereon, while Figure 2 illustrates a cross-sectional view along the width of another example of the present shelf 1. The present shelf is adapted for receiving any type of footwear that requires drying: shoes, boots, garden clogs, winter boots, ski boots, skates, etc. Although the present disclosure uses the terminology wet footwear, the expression “wet footwear” should be construed to include any footwear that is either partially or completely wet, partially or completely covered in mud or dirt, partially or completely covered in snow or partially or completely covered with ice. As snow and ice melts indoor, the expression wet and water dripping will be used through the present disclosure to concurrently refer to water, snow and ice dripping, as snow and ice melt to water indoors.

[0018] The shelf 1 comprises a gutter 2 for channeling water dripping from wet footwear. The gutter 2 is shown on Figures 1 and 2 as having a triangular cross-section. However, the gutter 2 could take many different shapes without departing from the scope of the present disclosure. For example, the gutter could be shaped as a polygon, a half circle, curved, etc. Although not shown on Figures 1 and 2, the gutter 2 is inclined along the

length of the shelf 1. The longitudinal inclination of the gutter 2 along the length of the shelf 1 allows channeling of water dripping from wet footwear stored on the shelf 1 towards a lowermost extremity of the gutter 2 by gravity. In another example, the gutter could be longitudinally inclined in one direction over a section thereof, and towards another direction for another section thereof. To allow an efficient channeling of the water, the gutter 2 is preferably smooth and free of obstacles. The longitudinal inclination of the gutter 2 may for example be within a range of 1.5 to 3.0 degrees with respect to the ground. The longitudinal inclination of the gutter could alternately be less than 1.5 degrees, which will still allow channeling of the water, but a less efficient evacuation of debris and snow. The longitudinal inclination of the gutter could alternately be more than 3.0 degrees without departing from the scope of the present description.

[0019] The shelf 1 also comprises a front longitudinal footwear depositing surface 3 and a back longitudinal footwear depositing surface 4. The front longitudinal footwear depositing surface 3 is positioned along a side of the gutter 2, while the back longitudinal footwear depositing surface 4 is positioned along the other side of the gutter 2. The front longitudinal footwear depositing surface 3 and the back longitudinal footwear depositing surface 4 define slopes toward the gutter 2. The front longitudinal footwear depositing surface 3 and the back longitudinal footwear depositing surface 4 may define a linear slope (as shown for the back longitudinal depositing surface 4 on Figures 1 and 2), a broken slope (as shown for the front longitudinal depositing surface 3 on Figures 1 and 2), or a curved slope (not shown).

[0020] The front longitudinal footwear depositing surface 3, the back longitudinal footwear depositing surface 4 and the gutter 2 may take any of the following configurations: the front longitudinal footwear depositing surface 3 and the back longitudinal footwear depositing surface 4 are sloped symmetrically with respect to the gutter 2, the gutter 2 is inclined along its length, while the front longitudinal footwear depositing surface 3 and the back longitudinal footwear depositing surface 4 form a levelled surface for storing wet footwear thereon. Depending on the applications for which the present shelf 1 is used, other configurations could also be considered. For example, the back longitudinal

footwear depositing surface 4 or the front longitudinal depositing surface 3 could follow the inclination of the gutter along their length.

[0021] The front longitudinal footwear depositing surface 3 and the back longitudinal footwear depositing surface 4 receive the wet footwear. An extremity of the wet footwear is deposited on the front longitudinal footwear depositing surface 3 while another extremity of the wet footwear is deposited on the back longitudinal footwear depositing surface 4. The expressions front and back longitudinal footwear depositing surfaces 3 and 4 should not be construed to mean that the front longitudinal footwear depositing surface 3 is adapted to receive the front of the wet footwear, while the back longitudinal footwear depositing surface 4 is adapted to receive the heel of the wet footwear, as the wet footwear may be stored on the shelf 1 either with the front of the wet footwear facing in one direction or the other.

[0022] Although Figure 1 illustrates a flat shelf 1 with the gutter 2 substantially centrally located along a width of the shelf 1, other configurations could also be used. For example, as shown on Figure 2, the shelf 1 could be inclined to the front and the gutter 2 located adjacent a front extremity of the shelf. Alternately, the shelf 1 could be angled to the back, and the gutter 2 located closer to the back of the shelf 1 or even along the back of the shelf 1.

[0023] Reference is now made to Figure 3, which is a partial upper perspective view of the shelf of Figure 1. The gutter 2 further comprises in its longitudinal lowermost extremity an evacuation aperture 8 which evacuates the water collected by the gutter 2 through the shelf 1. The evacuation aperture 8 defines a channel through the shelf 1 to evacuate the water. Although shown as being circular on Figure 3, the present evacuation aperture is not limited to such an implementation, and could take any other suitable shape, such as for example an oval, a square, a rectangle, a slit, etc.

[0024] The front longitudinal footwear depositing surface 3, the back longitudinal footwear depositing surface 4, the gutter 2 and the evacuation aperture 8 together evacuate water dripping from wet footwear while creating an air gap under the footwear stored thereon. The air gap created under the footwear assists in more rapidly drying the wet footwear as it allows warm air to circulate by natural convection.

[0025] The width of the front longitudinal depositing surface 3 and of the back longitudinal depositing surface 4 are chosen to allow drying of wet footwear of different sizes. For example, the width of the front longitudinal depositing surface 3 and the width of the back longitudinal depositing surface 4 may be equal, or the width of one may be greater than the other. The width of the front longitudinal depositing surface 3 and of the back longitudinal depositing surface could be adapted to the type of wet footwear to be dried thereon. For example, for daycare applications, the front longitudinal depositing surface 3 and the back longitudinal depositing surface 4 would be shorter as kids' shoes and boots are smaller. In another application related to ski resorts, the front longitudinal depositing surface 3 and the back longitudinal depositing surface 4 would be much larger so as to easily accommodate ski boots which are much longer than kids' shoes and boots.

[0026] The front longitudinal footwear depositing surface 3 may further comprise an abutment wall 5. The abutment wall 5 may be positioned along the front longitudinal footwear depositing surface 3 and opposite to the gutter 2. The abutment wall 5 prevents contact between wet footwear and an adjacent wall against which the shelf 1 may be affixed or positioned against.

[0027] The front longitudinal footwear depositing surface 3 may further comprise an anchoring mechanism 6 for anchoring the shelf 1 on a wall (not shown). Alternately, if the shelf 1 is to be used with legs, an affixing mechanism 7 may be provided for allowing affixing the shelf 1 to the legs. Various types of affixing mechanisms 7 could be used, and the affixing mechanism 7 shown on Figure 1 is for example only.

[0028] Reference is now made to Figure 4, which illustrates a partial perspective view of an exemplary footwear rack 10 with three shelves 1, wherein each shelf 1 is equipped with a receptacle 11 and a retaining mechanism 12. However, the present footwear rack 10 is not limited to such an implementation. For example, the footwear rack 10 could comprise more shelves 1 or less shelves 1. Those skilled in the art will also understand that many different types of means could be used to receive and collect the water evacuated through the evacuation aperture 8 of each shelf. For example, as shown on Figure 4, a receptacle 11 and a retaining mechanism 12 could be installed under each shelf 1, beneath or in proximity to the evacuation aperture 8. In another example (not shown), a tube or a pipe could be affixed to one or several of the shelves 1 around the evacuation aperture 8 to receive the evacuated water and direct the evacuated water towards a receptacle 11 located further from the shelves 1. Although not shown on Figure 4, those skilled in the art will understand that a combination of receptacles 11, retaining mechanisms 12 and tubes or pipes could also be used concurrently. For example, tubes could be used to connect the evacuation apertures 8 of the upper shelves 1 to the lower shelf 1, which could be equipped with the receptacle 11 and the retaining mechanism 12.

[0029] Different types of receptacles could be used without departing from the scope of the present shelf 1 and footwear rack 10. For example, the receptacle 11 could be a square receptacle as shown on Figure 4, with a surrounding lip around its upper periphery. The lip may be inserted within the complimentary retaining mechanism 12, which in the present example is a pair of slides. Alternatively, the receptacle could be threaded and the complimentary retaining mechanism 12 could comprise complimentary threads. In another exemplary implementation, the receptacle 11 could be deposited on a complimentary retaining mechanism 12 which maintains the receptacle 11 under the shelf 1. The receptacle 11 and the retaining mechanism 12 are positioned underneath the shelf 1 and are in alignment with the evacuation aperture 8 to collect the water evacuated by the shelf 1 there through.

[0030] The shelves 1 may further be provided with retaining walls 9 at each longitudinal extremity of the shelves 1. The retaining walls 9 may be sized to cover the entire

cross-section of the shelf as shown on Figure 4, or be smaller or larger, depending on the application and aesthetic requirements.

[0030] The footwear rack 10 further comprises legs 13, although only one leg is shown on Figure 4. In the example of Figure 4, the shelves 1 are affixed to the legs 13 by means of the anchoring mechanism 6. However, any known mechanism could be used to affix the shelves 1 to the legs 13, either fixedly or removably. Two or more legs 13 may be used to support the shelves 1. The legs 13 may be positioned along the front longitudinal footwear depositing surface 3, at the longitudinal end of each shelves 1, along the back longitudinal depositing surface 4, in between the shelves 1, or using a combination thereof. The legs 13 may be used solely for the purpose of receiving multiple shelves 1 one above the other.

[0031] However, in accordance with another aspect of the present footwear rack 10, at least one of the leg 13 is used in collecting the water evacuated through the evacuation aperture 8. For doing so, one of the legs 13 is provided with a hollow channel 16. Reference is now made concurrently to Figures 5 and 6 which are partial front side elevations of the present footwear rack 10, showing two different embodiments where one of the leg 13 is used for collecting the water evacuated through the evacuation aperture 8. In the embodiments depicted on Figures 5 and 6, the legs 13 are located along the longitudinal extremities of the shelves 1. However, the present footwear rack 10 is not limited to such implementations, and the illustration of the leg 13 along the longitudinal extremities of the shelves 1 is relied upon solely for simplifying the figures. The present embodiments could alternately use legs 13 located along the front longitudinal footwear depositing surface 3, along the back longitudinal footwear depositing surface 4, in between the shelves 1, etc.

[0032] Referring more particularly to Figure 6, evacuation tubes 14 are affixed under the shelves 1, around the evacuation apertures 8, to collect water evacuated by the evacuation aperture 8 and direct the collected water within the leg 13, into the receptacle 11. The evacuation tubes 14 are inserted within the leg 13. The evacuation tubes 14 may terminate in the leg 13 above the receptacle 11, or into the receptacle 11 as shown

on Figure 6. Referring more particularly to Figure 5, evacuation tubes 14 are affixed to the evacuation apertures 8 and inserted seamlessly to the leg 13. The water evacuated through the evacuation tubes 14 is received by the hollow channel 16 of the leg 13. The water collected flows down in the hollow channel 16, and is received by a funnel 15 which funnels the water in the receptacle 11. The funnel 15 also prevents splashing of water falling down by gravity in the hollow channel 16.

[0033] The shelf 1 and the components of the footwear rack 10 could be made of any material that is sturdy enough to support wet footwear and resists to water.

[0034] Although not specifically depicted, the present shelf 1 and footwear rack 10 could be modified in sizes, shapes, colours and forms.

REPLACEMENT SHEET

CLAIMS

1. A shelf for evacuating water from wet footwear, the shelf comprising:
 - a gutter inclined along a length of the shelf for channeling water;
 - a front longitudinal footwear depositing surface along one side of the gutter;
 - a back longitudinal footwear depositing surface along another side of the gutter;and
 - an evacuation aperture in a lowermost section of the gutter, the evacuation aperture defining a channel through the shelf.
2. The shelf of claim 1, wherein the gutter is inclined along its length with respect to the front longitudinal depositing surface.
3. The shelf of claim 1, wherein the gutter is inclined along its length with respect to the back longitudinal depositing surface.
4. The shelf of claim 1, wherein the gutter is inclined along its length with respect to both the front and the back longitudinal depositing surface.
5. The shelf of claim 1, wherein the gutter is inclined along a section of its length in one direction and inclined along another section of its length in another direction.
6. The shelf of claim 1, wherein the front longitudinal footwear depositing surface and the back longitudinal footwear depositing surface define an inner slope towards the gutter.
7. The shelf of claim 1, wherein the front longitudinal footwear depositing surface and the back longitudinal footwear depositing surface are symmetric on each side of the gutter.
8. The shelf of claim 1, wherein the front longitudinal footwear depositing surface is narrower than the back longitudinal footwear depositing surface.

REPLACEMENT SHEET

9. The shelf of claim 1, wherein the front longitudinal footwear depositing surface further comprises an anchoring mechanism for anchoring the shelf to a wall.
10. The shelf of claim 1, further comprising an affixing mechanism for affixing the shelf on a pair of side legs equipped with a complimentary receiving mechanism.
11. The shelf of claim 1, further comprising a receptacle positioned beneath the evacuation aperture for collecting water.
12. The shelf of claim 11, wherein the shelf further comprises a retaining mechanism for retaining the receptacle under the shelf beneath the evacuation aperture.
13. The shelf of claim 12, wherein the receptacle is threaded and the retaining mechanism is a complimentary thread for screwing the receptacle thereon.
14. The shelf of claim 12, wherein the receptacle comprises an upper lip around an upper periphery of the receptacle and the retaining mechanism is a pair of slides receiving the upper lip of the receptacle.
15. A footwear rack comprising:
- at least two legs;
 - at least one shelf for evacuating water from wet footwear, each shelf being affixed to the at least two legs, each shelf comprising:
 - a gutter inclined along a length of the shelf for channeling water;
 - a front longitudinal footwear depositing surface along one side of the gutter;
 - a back longitudinal footwear depositing surface along another side of the gutter; and
 - an evacuation aperture in a lowermost section of the gutter, the evacuation aperture defining a channel through the shelf.

REPLACEMENT SHEET

16. The footwear rack of claim 15, wherein the at least one shelf is longitudinally extensible.

17. The footwear rack of claim 15, wherein the front longitudinal footwear depositing surface is narrower along its length than the back longitudinal footwear depositing surface.

18. The footwear rack of claim 15, wherein the front longitudinal footwear depositing surface and the back longitudinal footwear surface define an inner slope towards the gutter.

19. The footwear rack of claim 15, wherein at least one of the legs defines an inner hollow channel and comprises a removable receptacle at a foot thereof, and water evacuated by the channel of the collection aperture is directed in the inner hollow channel of one of the legs.

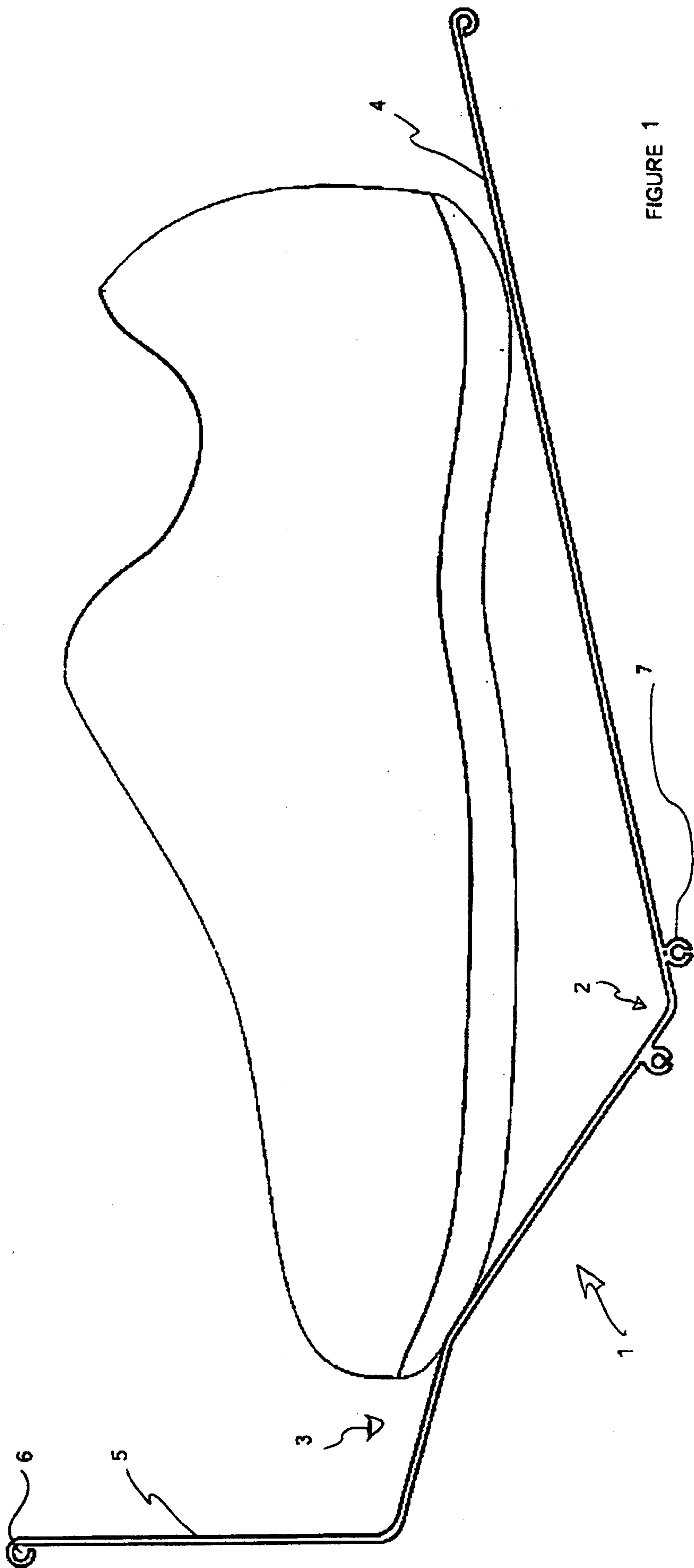


FIGURE 1

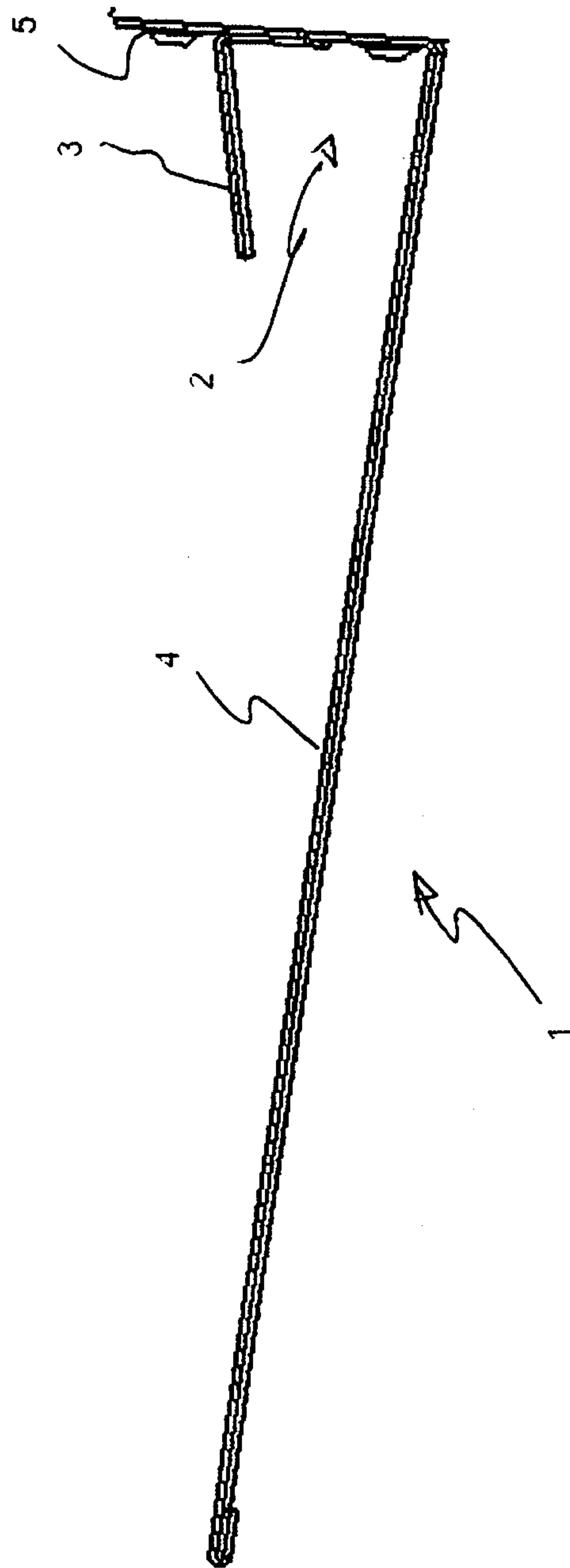


FIGURE 2

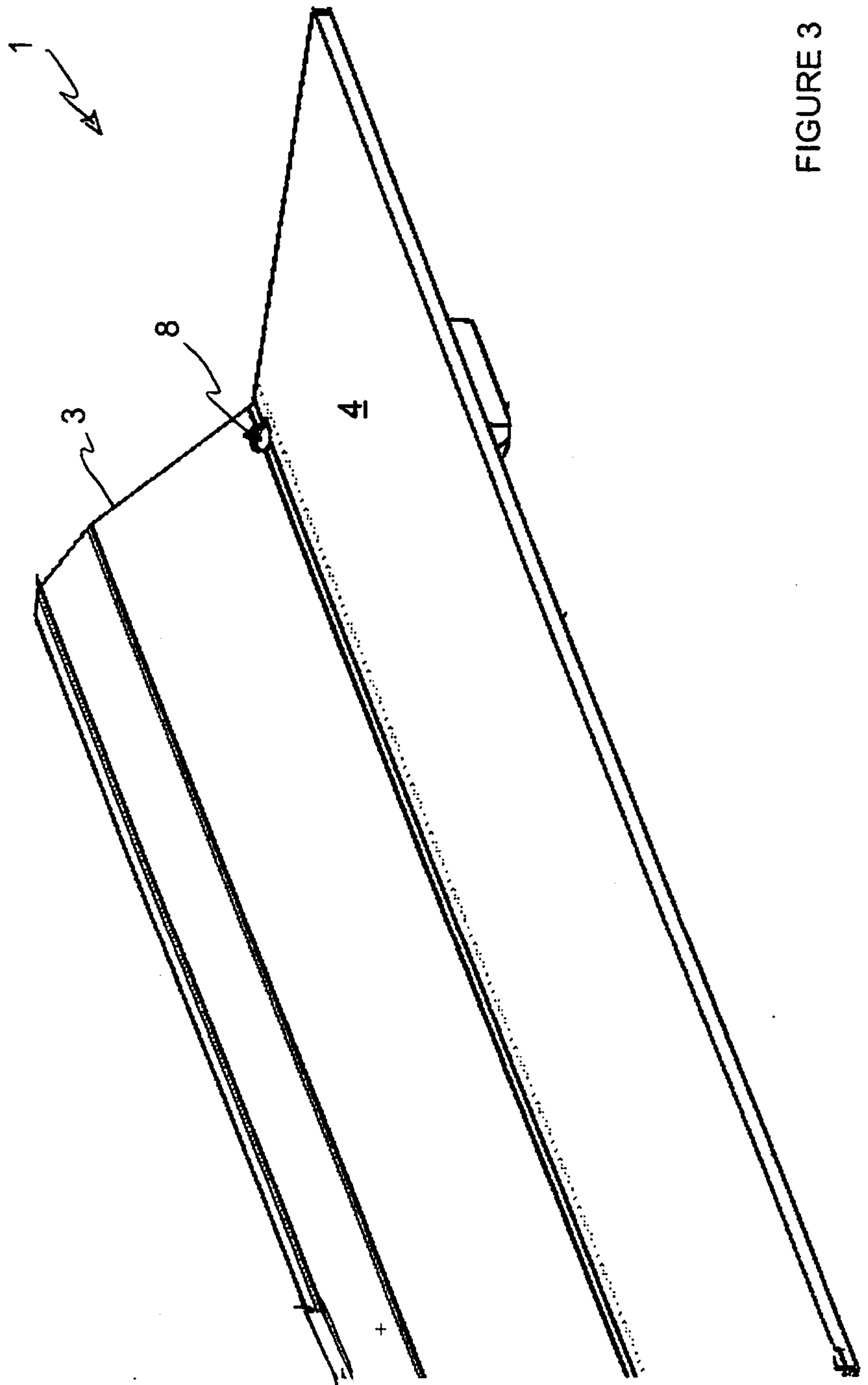


FIGURE 3

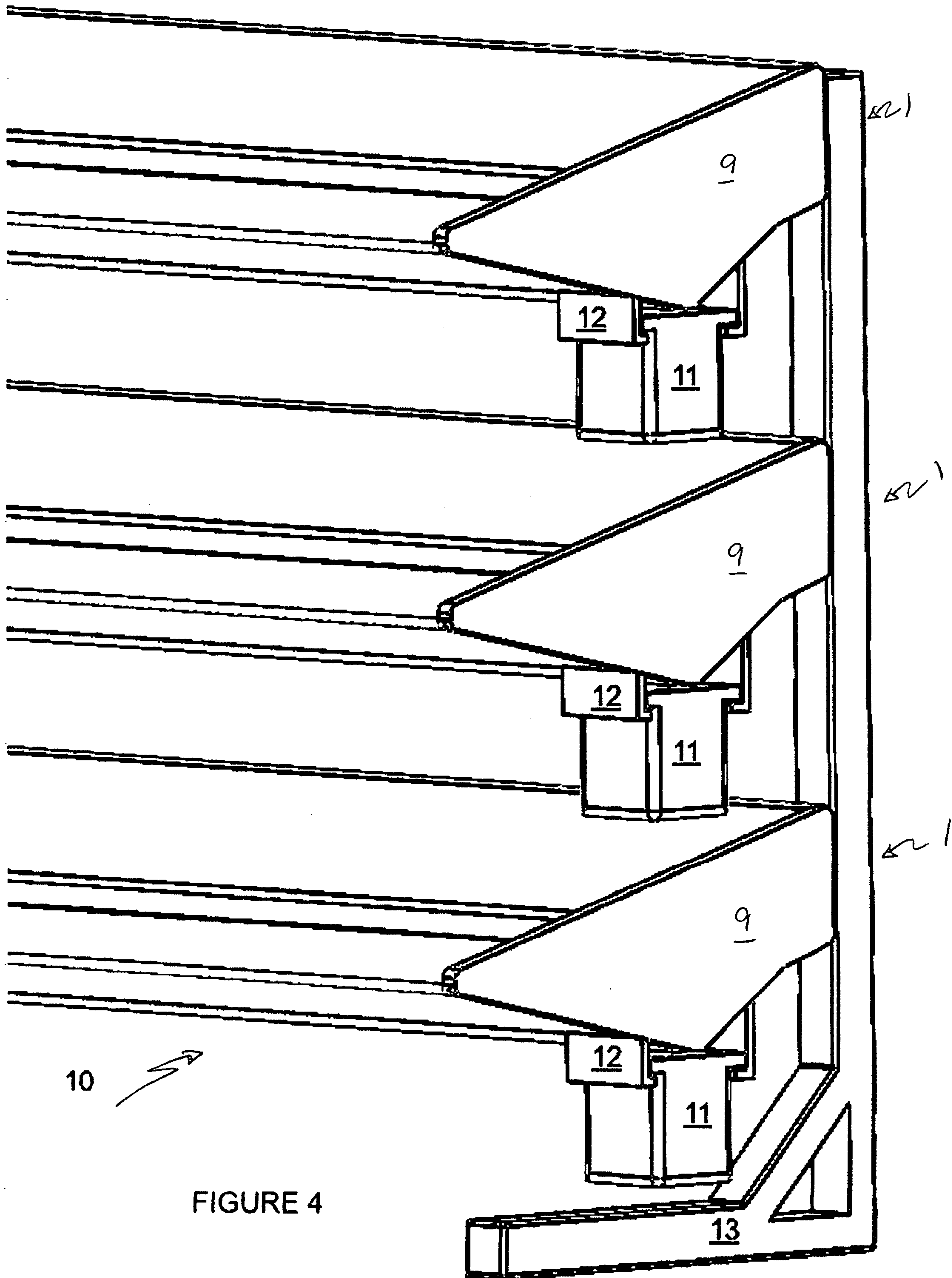


FIGURE 4

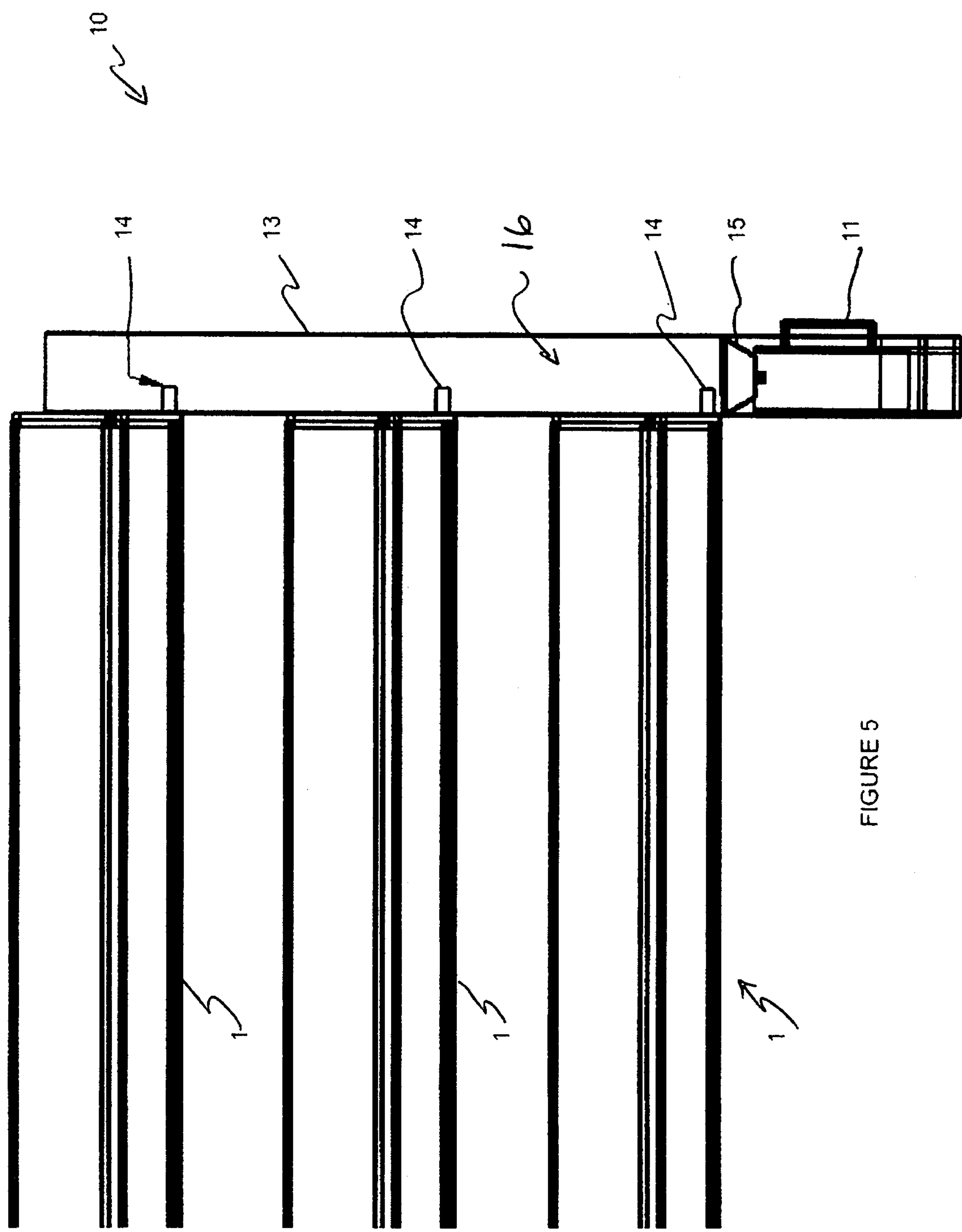


FIGURE 5

