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(54) **FOOTWEAR HANGER**

AUFHÄNGUNG FÜR SCHUHE

DISPOSITIF POUR SUSPENDRE DES CHAUSSURES

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## Description

**[0001]** The present invention relates to a footwear hanger. Footwear hangers are well known and are used in many shops for displaying footwear. A number of different styles of footwear hanger are known. US patent application no. 5282553 describes a shoe hanger for displaying shoes in shops having a central rod terminated by a hook and having two arms for supporting shoes which are each composed of an inverted U-shaped arm. In one embodiment, this central rod has a planar cross-section. In another embodiment the central rod has a T-shaped cross section. US patent application no. 5931314 describes a shoe hanger having a central body having two support elements, a hook for suspension and an area for displaying a price, trade mark etc. The cross-section of this central body is H-shaped.

**[0002]** These shoe hangers have drawbacks. When the hangers described in US5282553 are not in use they may be stacked one on top of the other. It will be noted that the T-shaped cross-sections will not readily stack one on top of the other. Also, the hangers having a planar cross-section have no means to aid stacking when not in use. When the hangers described in US5931314 are not displaying shoes the hangers may be stacked to minimise the space needed. However, it is noted that these hangers do not easily stack one on top of the other. Both of these documents describe hangers having a rod or body which may dig in, rub against or otherwise damage the footwear being displayed which is another drawback.

**[0003]** Other publications include FR 2755360 A1, which discloses a shoe holder having a central rod with two lateral wings and a rib, each of the wings and the rib having a hole through which joining wires pass, the joining wires being secured in the shoes to hold the shoes in place. GB 2419521 A discloses a shoe hanger according to the preamble of claim 1 having an inverted U-section, swan-neck shaped support bar portion 30 which clips as a friction fit into an inverted U-section, generally U-shaped, arms portion 40, such that shoes can be suspended on the arms.

**[0004]** The present invention seeks to overcome these problems by providing a footwear hanger which can be easily stacked one on top of the other when stored without footwear being attached.

**[0005]** The present invention is set out in the appended claims. Examples that do not fall within the scope of said claims are provided for illustrative purposes only and do not form part of the present invention.

**[0006]** An advantage of a stem having a V-shaped cross-section is that the hangers, when not in use, can be stacked one on top of the other without taking up as much space as if they were planar, T-shaped or U-shaped.

**[0007]** Embodiments of the V-shape are shown in the figures. The V shape is defined as: two downwardly extending, converging lines which look like a typed V; two downwardly extending, converging lines which have at least one change in trajectory along their path so that each of the lines forming the V form at least one obtuse angle before converging; two downwardly extending lines which converge towards one another but which are linked by a horizontally extending line.

**[0008]** The linking horizontal line can be solid or have at least one recess. This embodiment is suited to supporting lightweight footwear.

**[0009]** Embodiments of the Y-shape are shown in the figures. The Y shape is defined as: two downwardly extending, converging lines with a downwardly extending line from the point where the two lines converge which looks like a typed Y; two downwardly extending, converging lines which have at least one change in trajectory along their path so that each of the lines forming the V portion of the Y form at least one obtuse angle before converging with a downwardly extending line from the point where the two lines converge; two downwardly extending lines which converge towards one another but which are linked by a horizontally extending line having a downwardly extending line halfway along the horizontal line; two downwardly extending, converging lines which have at least one change in trajectory along their path so that each of the lines forming the V portion of the Y form an obtuse angle which are linked to one another by a horizontal line and a downwardly depending line extending from halfway along the horizontal line.

**[0010]** A footwear hanger having a Y-shaped cross-section has improved strength by virtue of the depth of the Y over a shoe hanger having a T-shaped or U-shaped cross-section of the same height. Further, the stacked footwear hangers according to the present invention have a smaller stack height than hangers having a T-shaped cross-section of the same depth as the V or Y-shaped hangers of the invention. The Y shape also permits easy stacking of the hangers one on top of the other. Also, a hanger having a Y-shaped cross-section stem has the advantage that the footwear being displayed is not damaged by sharp edges, unlike in the prior art and that the hangers, when not in use, can be stacked one on top of the other. Embodiments of the Y-shape are shown in the figures. The Y shape can also be inverted.

**[0011]** Both the V and Y-shaped cross-sections act as a guide for stacking hangers one on top of the other by virtue of the convergent part of the V. It is envisaged that the V and Y shaped cross-section of the stem can extend over a portion of the footwear hanger at, at least, the points where the hangers will engage with other hangers when stacked. The stem may have the V or Y-shaped cross section throughout its length.

**[0012]** In an embodiment of the invention the stem is in the same plane as the support arms.

**[0013]** By having the central stem and support arms in the same plane a simple mould can be made for manufacturing the hangers. This embodiment of the hanger would have a smaller stack height than a hanger having the support arms and stem in different planes, up to a certain level.

**[0014]** In another embodiment, the stem is in a different plane to the support arms. In this embodiment the support arms are in the substantially vertical plane for displaying the footwear. However, the stem can curve away from the plane in which the shoes are held. This is useful where the footwear to be displayed is delicate and where contact with the stem is undesirable. For example, slippers can be easily marked by a stem due to the softness of the material used to make them. Also, shoes having embellishment, such as sequins, are delicate and contact with the stem could lead to the embellishments being damaged.

**[0015]** In a further embodiment the stem has a kink, a swan-neck shape or a curve or any other shape which results in the stem not being in the same plane as the support arms.

**[0016]** In another embodiment, the hanger is composed of one piece. This simplifies the manufacture of the hanger and saves on assembly costs. Alternatively, the hanger can be composed of a modular system whereby any or both of the suspension means and support arms are attachable to the central stem.

**[0017]** In another embodiment, the hanger is made by injection moulding. Injection moulding is a common and efficient way of manufacturing items. It is preferred that the hanger is manufactured in one piece by injection moulding. This minimises costs by only using one mould to form the pieces.

**[0018]** In an embodiment, the hanger is constructed of a plastics material. This is advantageous as plastics materials are readily available and are usually easy to handle. Further, injection moulding of plastics is a well known process and is also inexpensive to perform once the tooling has been set up. A large number of hangers can be produced in batches which again drives down manufacturing costs. Many plastics materials can be used to make this footwear hanger but preferred materials are polystyrene and polypropylene.

**[0019]** In an embodiment the suspension means is a hook. The hanger can be suspended from a rail or pole by means of the hook. As rails and poles are commonplace in shops no further equipment is required to display the footwear on the hangers in the shops.

**[0020]** In an embodiment the support arms also have a V-shaped cross-section. The V-shaped cross section of the arms leads to more efficient stacking of the hangers when the cross-section of the stem is also a V as hangers stacked above and below a hanger will tessellate. This results in a reduction in the space required for storing the hangers when they are not supporting footwear.

**[0021]** In an embodiment the support arms have a protrusion from the V-shaped cross section to provide a Y shaped cross section. In this embodiment the arms have added strength by virtue of the Y-shape and are suited to hanging heavy footwear. Also, when the arms have a Y-shaped cross section and are joined to a stem with a Y-shaped cross section the hangers may be stacked efficiently in a smaller space than if the hangers had a planar cross-section of the same height of the V or Y shaped cross-section.

**[0022]** In an embodiment the hanger further comprises an extension on which information may be displayed, information such as shoe sizes, price and/or brand can be affixed to this protrusion to readily display information which may be required by potential purchasers.

**[0023]** In an embodiment the extension on which information is displayed is located proximate to the suspension means. An advantage of locating the protrusion for displaying information close to the suspension means is that it is in a prominent position for the consumer to see. The present invention will now be described with reference to the accompanying drawings.

Figure 1(a) is a perspective view of the front and side of a first embodiment of a footwear hanger according to the invention.

Figure 1(b) is a perspective view of the rear and side of a first embodiment of a footwear hanger.

Figure 2 shows a cross section through a stack of two hangers according to the embodiment shown in figure 1(a) along line A-A.

Figure 3 shows a cross section of the stems of the stacked hangers of an embodiment of the invention and those which are known in the prior art.

Figures 4a-4f show possible shapes of the V and Y cross-sections.

Figure 5 shows a cross section of a stack of two hangers according to the embodiment shown in figure 1(a) along the line B-B.

Figure 6 shows a cross section through the footwear hanger and appended footwear taken along line C-C as shown in figure 1(a) and through corresponding known T-shaped cross-section hangers and U-shaped cross-section hangers.

Figure 7(a) shows a mould in cross-section for manufacturing the Y-shaped cross section footwear hanger according to one embodiment of the present invention alongside Figure 7(b) which shows a mould for making a known T-shaped cross-section footwear hanger.

Figure 8(a) to (d) show side on views of hangers according to the invention.

**[0024]** Referring to figure 1(a), a footwear hanger 10 according to an embodiment of the present invention is shown. The hanger comprises a central stem 12 having a Y-shaped cross-section. The hanger further comprises two arms 14 attached to the stem 12 at its one end. The

arms are angled towards the stem 12 from their position of attachment to the stem 12 so that footwear can be supported on the arm close to or against the stem 12 and then diverge away from the stem in an arcuate manner to provide a portion 15 which is located inside a footwear item when in use. At the opposite end to where the arms connect with the stem is a suspension means 16 which is shown as a hook. There is an extension 18 near to the hook which is suitable for displaying information about the product.

**[0025]** Figure 1 (b) shows the rear side of the hanger in figure 1 (a). A protrusion 13 is shown which forms the downward shaft of the Y-shape. The support arms 14 are shown as being indented. It is possible for the support arms to be made solid to support heavy footwear, but this would increase the manufacturing costs of the hangers.

**[0026]** Alternatively, the Y-shaped cross-section can be inverted so that the protrusion 13 is located on the front of the hanger 10 when in use.

**[0027]** Figure 2 shows a cross section of two hangers according to an embodiment of the invention stacked in a cooperating manner. It can be seen that the protrusion 13 on the upper hanger fits in to the V-shaped part of the Y shaped stem in the lower hanger. The support arms are shown as having a U-shaped cross-section but the stacking of the hangers is achieved by virtue of the cross-section of the stem.

**[0028]** Figure 3 shows how the stacking of a hanger with at least a stem 12 having a Y-shaped cross-section can be stacked in a smaller height than known hangers with a T-shaped cross-section. The dotted lines 101 and 102 shows the stack height of the hangers. The stack height of the hangers according to an embodiment of the invention are about the same as the known hangers with U-shaped cross-sections. However, the inner walls of the upper part of the Y 20, 22 act as a guide for the protrusion 13 of a hanger to be stacked on top by narrowing the space in which the incoming hanger can move. This narrowing can prevent side to side motion of the hanger when stacked which improves stability of the stack.

**[0029]** Figures 4a-4f show some alternative shapes for the V and Y shaped cross-section which are suitable for this invention. However, it is to be understood that these are not the only possible shapes suited to carry out the invention.

**[0030]** Figure 5 shows a cross-section through hangers according to the embodiment shown in figure 1(a) along line B-B. This view more clearly shows the Y-shaped stem 12.

**[0031]** Figure 6 shows a cross section through the footwear hanger according to an embodiment of the invention taken along line C-C as shown in figure 1(a) and appended footwear and through corresponding known T-shaped cross-section hangers and U-shaped cross-section hangers. An embodiment of the invention is shown in figure 6(a) with known footwear hangers shown in figure 6(b) and (c). It can be seen from figure 6(b) that the place where the horizontal bar of the T terminates 42 is proximal to the footwear. The termination points 42 can rub on the footwear which causes damage to the footwear which is obviously undesirable, in figure 6(c) it can be seen that the free ends of the U shape 52 are proximate to the footwear and again can rub on the footwear which causes damage. Figure 6(a) shows the Y-shaped stem not having any points which may cause damage to the footwear as there are no corners in contact with the footwear. This is a further advantage of having a V or Y shaped cross-section as shown in this figure.

**[0032]** Figure 7(a) shows a mould 80 in cross-section for manufacturing the Y-shaped cross section footwear hanger according to one embodiment of the present invention alongside Figure 7(b) which shows a mould 90 for making a known T-shaped cross-section footwear hanger. It can be seen that there is a thick section 92 at the base of the T shape having the same height as the Y shape. This is not present on the Y shape as only a short height requires draft.

**[0033]** Figure 8 (a) shows a hanger 10 according to an embodiment of the invention where the support arms 14 and stem 12 are in the same plane as one another which is suitable for use with most types of footwear. Figure 8 (b) shows an alternative embodiment where the support arms 14 are parallel to the stem 12 but where the stem is curved. Figure 8 (c) shows another embodiment of a hanger 10 where the stem 12 is in a different plane to the support arms 14. The stem curves away from the support arms where they are attached to the stem and then curves back toward the support arms and continues in a vertical direction. Figure 8 (d) shows yet another embodiment of a hanger 10 where the stem 12 and support arms 14 are in a different plane to one another but where the stem is more distant to the support arms than in figure 8 (c). Both the embodiments shown in figures 8 (c) and (d) are more suited to displaying footwear which is delicate and where contact with the stem is undesirable. For example, slippers can be easily marked by a stem due to the softness of the material used to make them. Also, shoes having embellishment, such as sequins, are delicate and contact with the stem could lead to the embellishments being damaged.

**[0034]** In a further embodiment the footwear hanger comprises more than two support arms, for instance four arms for displaying two pairs of shoes.

**[0035]** It will be appreciated by a person skilled in the art that the above embodiments have been described by way of example only, and not in any limiting sense and that modification are possible without departing from the scope of the invention as defined by the claims. Whilst the figures relate to a hanger having a stem with a Y-shaped cross-section, it is understood that a V shape can be used and made in the same way and also has the benefits of being stackable.

## Claims

**1.** A footwear hanger (10) comprising:

a central stem (12);
support arms (14) attached to the stem (12), the support arms (14) for supporting footwear; and wherein a portion of the support arms (14) is configured to be located inside the footwear in use; and
a suspension means (16) for attaching the hanger (10) to a display;
**characterised in that** the stem (12) has a V-shaped cross-section or Y-shaped cross-section such that the cross-sections act as a guide for stacking hangers one on top of the other by virtue of the converging lines of the cross-section,
wherein the V-shaped cross-section comprises:

two downwardly extending, converging lines which look like a typed V;
two downwardly extending, converging lines which have at least one change in trajectory along their path so that each of the lines forming the V form at least one obtuse angle before converging; or
two downwardly extending lines which converge towards one another but which are linked by a horizontally extending line;

and wherein the Y-shaped cross-section comprises:

two downwardly extending, converging lines with a downwardly extending line from the point where the two lines converge which looks like a typed Y;
two downwardly extending, converging lines which have at least one change in trajectory along their path so that each of the lines forming the V portion of the Y form at least one obtuse angle before converging with a downwardly extending line from the point where the two lines converge;
two downwardly extending lines which converge towards one another but which are linked by a horizontally extending line having a downwardly extending line halfway along the horizontal line; or
two downwardly extending, converging lines which have at least one change in trajectory along their path so that each of the lines forming the V portion of the Y form an obtuse angle which are linked to one another by a horizontal line and a downwardly depending line extending from halfway along the horizontal line.

**2.** A footwear hanger (10) according to claim 1 wherein the stem (12) further includes a protrusion (13) to give the Y-shaped cross-section along at least part of its length.

**3.** A footwear hanger (10) according to claim 1 or claim 2 wherein the stem (12) is in the same plane as the support arms (14).

**4.** A footwear hanger (10) according to claim 1 or claim 2 wherein the stem (12) is in a different plane to the support arms (14).

**5.** A footwear hanger (10) according to any preceding claim wherein the hanger (10) is composed of one piece.

**6.** A footwear hanger (10) according to any preceding claim wherein the hanger (10) is made by injection moulding.

**7.** A footwear hanger (10) according to any preceding claim wherein the hanger (10) is constructed of a plastics material.

**8.** A footwear hanger (10) according to any preceding claim wherein the suspension means (16) is a hook.

**9.** A footwear hanger (10) according to any preceding claim wherein the support arms (14) have a V-shaped cross-section.

**10.** A footwear hanger (10) according to any claim 9 wherein the support arms (14) have a protrusion (13) from the V-shaped cross section to provide a Y shaped cross section.

**11.** A footwear hanger (10) according to any preceding claim wherein the hanger (10) further includes an extension (18) on which information may be displayed.

**12.** A footwear hanger (10) according to claim 11 wherein the extension (18) is located proximate to the suspension means (16).

## Patentansprüche

**1.** Schuhaufhängung (10), umfassend:

eine zentrale Stange (12);
an der Stange (12) angebrachte Tragarme (14), wobei die Tragarme (14) zum Tragen von Schuhen dienen; und wobei ein Teil der Tragarme (14) dazu ausgelegt ist, sich im Gebrauch im Inneren der Schuhe zu befinden; und
ein Aufhängemittel (16) zum Anbringen der Auf-

hängung (10) an einer Auslage;
**dadurch gekennzeichnet, dass** die Stange (12) einen V-förmigen Querschnitt oder einen Y-förmigen Querschnitt aufweist, sodass die Querschnitte als eine Führung zum Stapeln von Aufhängungen, eine auf der Oberseite der anderen, aufgrund der zusammenlaufenden Linien des Querschnitts dienen,
wobei der V-förmige Querschnitt Folgendes umfasst:

zwei sich nach unten erstreckende, zusammenlaufende Linien, die wie ein typisiertes V aussehen;
zwei sich nach unten erstreckende, zusammenlaufende Linien, die entlang ihres Weges mindestens eine Veränderung in ihrem Bahnverlauf aufweisen, sodass jede der Linien, die die V-Form ausbilden, vor dem Zusammenlaufen mindestens einen stumpfen Winkel ausbildet; oder
zwei sich nach unten erstreckende Linien, die sich einander annähern, aber durch eine sich horizontal erstreckende Linie verbunden sind;

und wobei der Y-förmige Querschnitt Folgendes umfasst:

zwei sich nach unten erstreckende, zusammenlaufende Linien mit einer sich nach unten erstreckenden Linie von dem Punkt, wo die beiden Linien zusammenlaufen, was wie ein typisiertes Y aussieht;
zwei sich nach unten erstreckende, zusammenlaufende Linien, die entlang ihres Weges mindestens eine Veränderung in ihrem Bahnverlauf aufweisen, sodass jede der Linien, die den V-Abschnitt des Y ausbilden, vor dem Zusammenlaufen mit einer sich nach unten erstreckenden Linie von dem Punkt, wo die beiden Linien zusammenlaufen, mindestens einen stumpfen Winkel ausbildet;
zwei sich nach unten erstreckende Linien, die sich einander annähern, aber durch eine sich horizontal erstreckende Linie verbunden sind, die eine sich nach unten erstreckende Linie auf halbem Wege entlang der horizontalen Linie aufweist; oder
zwei sich nach unten erstreckende, zusammenlaufende Linien, die entlang ihres Weges mindestens eine Veränderung in ihrem Bahnverlauf aufweisen, sodass jede der Linien, die den V-Abschnitt des Y ausbilden, einen stumpfen Winkel ausbildet, und sie miteinander durch eine horizontale Linie und eine abhängige Linie nach unten verbunden sind, die sich von halbem Wege entlang der horizontalen Linie erstreckt.

**2.** Schuhaufhängung (10) nach Anspruch 1, wobei die Stange (12) ferner einen Vorsprung (13) umfasst, um ihr zumindest entlang eines Teils ihrer Länge den Y-förmigen Querschnitt zu geben.

**3.** Schuhaufhängung (10) nach Anspruch 1 oder Anspruch 2, wobei die Stange (12) in derselben Ebene wie die Tragarme (14) ist.

**4.** Schuhaufhängung (10) nach Anspruch 1 oder Anspruch 2, wobei die Stange (12) in einer anderen Ebene als die Tragarme (14) ist.

**5.** Schuhaufhängung (10) nach einem der vorangehenden Ansprüche, wobei die Aufhängung (10) aus einem Teil besteht.

**6.** Schuhaufhängung (10) nach einem der vorangehenden Ansprüche, wobei die Aufhängung (10) durch Spritzgießen hergestellt ist.

**7.** Schuhaufhängung (10) nach einem der vorangehenden Ansprüche, wobei die Aufhängung (10) aus einem Kunststoffmaterial konstruiert ist.

**8.** Schuhaufhängung (10) nach einem der vorangehenden Ansprüche, wobei das Aufhängemittel (16) ein Haken ist.

**9.** Schuhaufhängung (10) nach einem der vorangehenden Ansprüche, wobei die Tragarme (14) einen V-förmigen Querschnitt haben.

**10.** Schuhaufhängung (10) nach einem Anspruch 9, wobei die Tragarme (14) einen Vorsprung (13) von dem V-förmigen Querschnitt aufweisen, um einen Y-förmigen Querschnitt bereitzustellen.

**11.** Schuhaufhängung (10) nach einem der vorangehenden Ansprüche, wobei die Aufhängung (10) ferner eine Verlängerung (18) beinhaltet, an der Informationen angezeigt werden können.

**12.** Schuhaufhängung (10) nach Anspruch 11, wobei sich die Verlängerung (18) in der Nähe des Aufhängemittels (16) befindet.

**Revendications**

**1.** Cintre pour chaussures (10) comprenant :

une tige centrale (12) ;
des bras de support (14) fixés à la tige (12), les bras de support (14) étant destinés à supporter

des chaussures ; et dans lequel une partie des bras de support (14) est configurée pour être située à l'intérieur des chaussures lors de l'utilisation ; et
un moyen de suspension (16) pour fixer le cintre (10) à un présentoir ;
**caractérisé en ce que** la tige (12) présente une section transversale en forme de V ou une section transversale en forme de Y de telle sorte que les sections transversales font office de guide pour empiler des cintres les uns sur les autres en raison des lignes convergentes de la section transversale,
dans lequel la section transversale en forme de V comprend :

deux lignes convergentes s'étendant vers le bas qui ressemble à un V dactylographié ;
deux lignes convergentes s'étendant vers le bas qui présentent au moins un changement de trajectoire le long de leur trajet de telle sorte que chacune des lignes formant le V forment au moins un angle obtus avant de converger ; ou
deux lignes s'étendant vers le bas qui convergent l'une vers l'autre mais qui sont reliées par une ligne s'étendant horizontalement ;

et dans lequel la section transversale en forme de Y comprend :

deux lignes convergentes s'étendant vers le bas avec une ligne s'étendant vers le bas depuis le point où les deux lignes convergent qui ressemble à un Y dactylographié ;
deux lignes convergentes s'étendant vers le bas qui présentent au moins un changement de trajectoire le long de leur trajet de telle sorte que chacune des lignes formant la partie en V du Y forment au moins un angle obtus avant de converger avec une ligne s'étendant vers le bas depuis le point où les deux lignes convergent ;
deux lignes s'étendant vers le bas qui convergent l'une vers l'autre mais qui sont reliées par une ligne s'étendant horizontalement ayant une ligne s'étendant vers le bas à mi-chemin le long de la ligne horizontale ; ou
deux lignes convergentes s'étendant vers le bas qui présentent au moins un changement de trajectoire le long de leur trajet de telle sorte que chacune des lignes formant la partie en V du Y forment un angle obtus qui sont reliées l'une à l'autre par une ligne horizontale et une ligne dépendante orientée vers le bas s'étendant depuis la moitié du chemin le long de la ligne horizontale.

**2.** Cintre pour chaussures (10) selon la revendication 1, dans lequel la tige (12) comprend en outre une saillie (13) pour donner la section transversale en forme de Y le long d'au moins une partie de sa longueur.

**3.** Cintre pour chaussures (10) selon la revendication 1 ou la revendication 2, dans lequel la tige (12) se trouve dans le même plan que les bras de support (14).

**4.** Cintre pour chaussures (10) selon la revendication 1 ou la revendication 2, dans lequel la tige (12) se trouve dans un autre plan que les bras de support (14).

**5.** Cintre pour chaussures (10) selon l'une quelconque des revendications précédentes, le cintre (10) étant composé d'une seule pièce.

**6.** Cintre pour chaussures (10) selon l'une quelconque des revendications précédentes, le cintre (10) étant réalisé au moyen d'un moulage par injection.

**7.** Cintre pour chaussures (10) selon l'une quelconque des revendications précédentes, le cintre (10) étant construit à partir d'un matériau plastique.

**8.** Cintre pour chaussures (10) selon l'une quelconque des revendications précédentes, dans lequel le moyen de suspension (16) est un crochet.

**9.** Cintre pour chaussures (10) selon l'une quelconque des revendications précédentes, dans lequel les bras de support (14) présentent une section transversale en forme de V.

**10.** Cintre pour chaussures (10) selon la revendication 9, dans lequel les bras de support (14) comportent une saillie (13) à partir de la section transversale en forme de V pour fournir une section transversale en forme de Y.

**11.** Cintre pour chaussures (10) selon l'une quelconque des revendications précédentes, le cintre (10) comprenant en outre une extension (18) sur laquelle des informations peuvent être affichées.

**12.** Cintre pour chaussures (10) selon la revendication 11, dans lequel l'extension (18) est située à proximité du moyen de suspension (16).

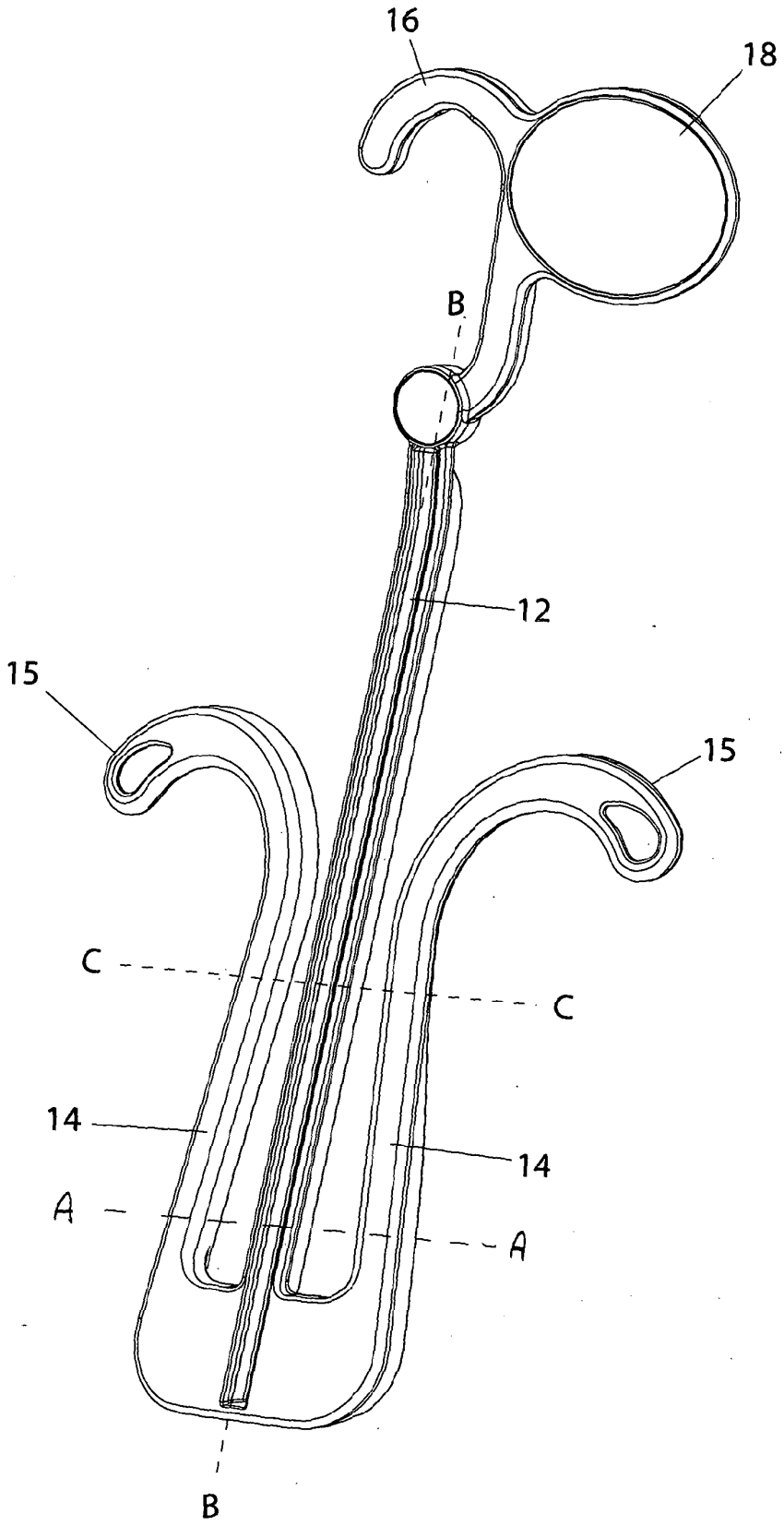



**Figure 1a**

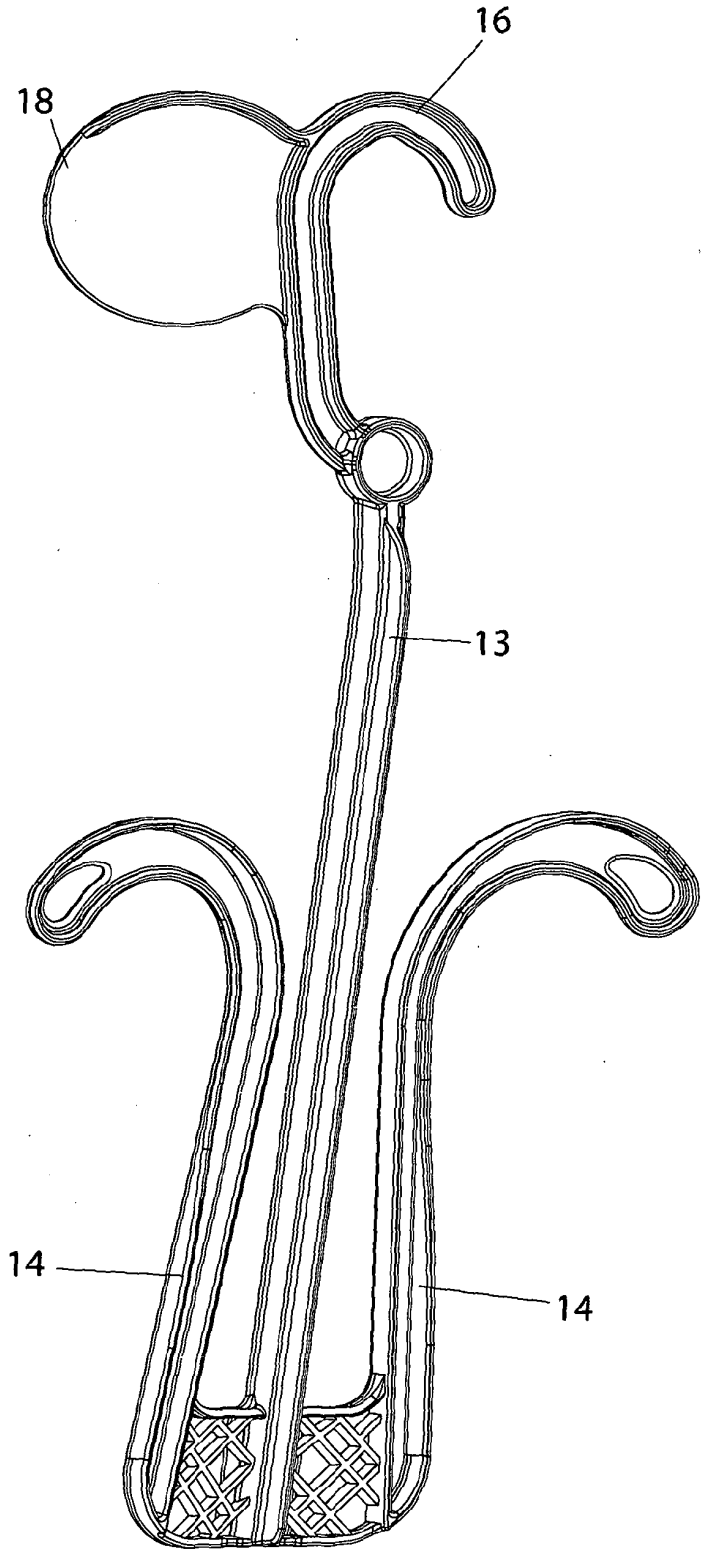



**Figure 1b**

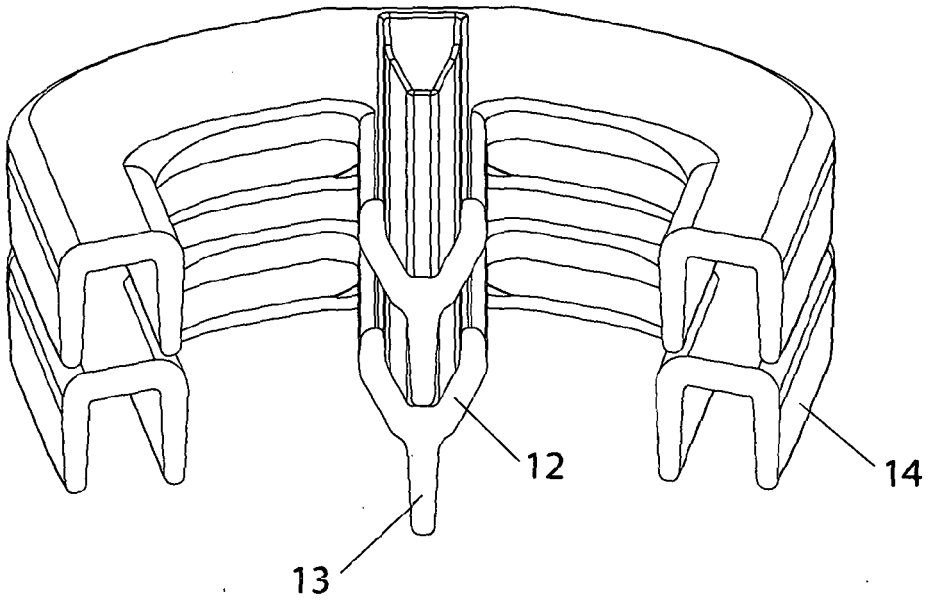



Figure 2

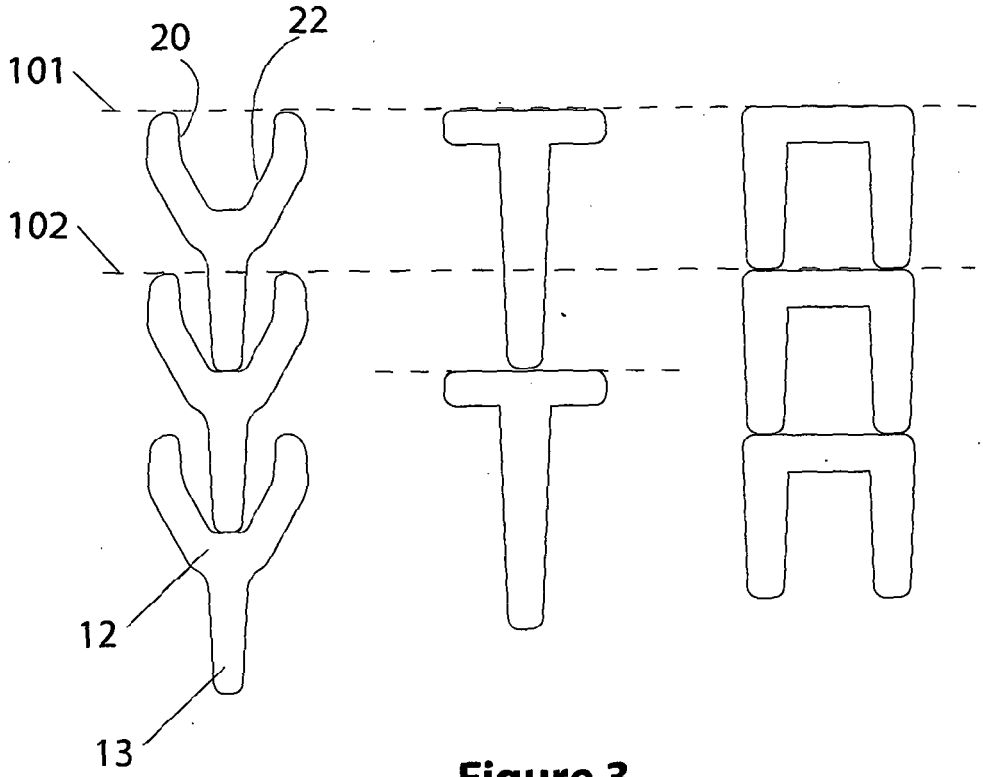



Figure 3

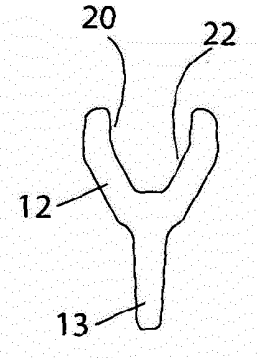



Figure 4a

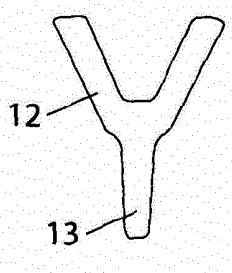



Figure 4b

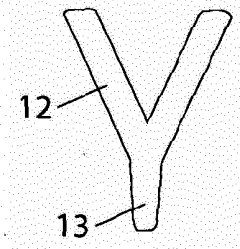



Figure 4c

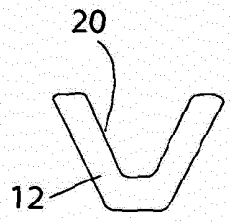



Figure 4d

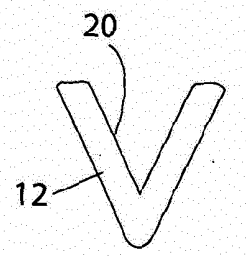



Figure 4e

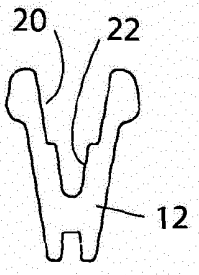



Figure 4f

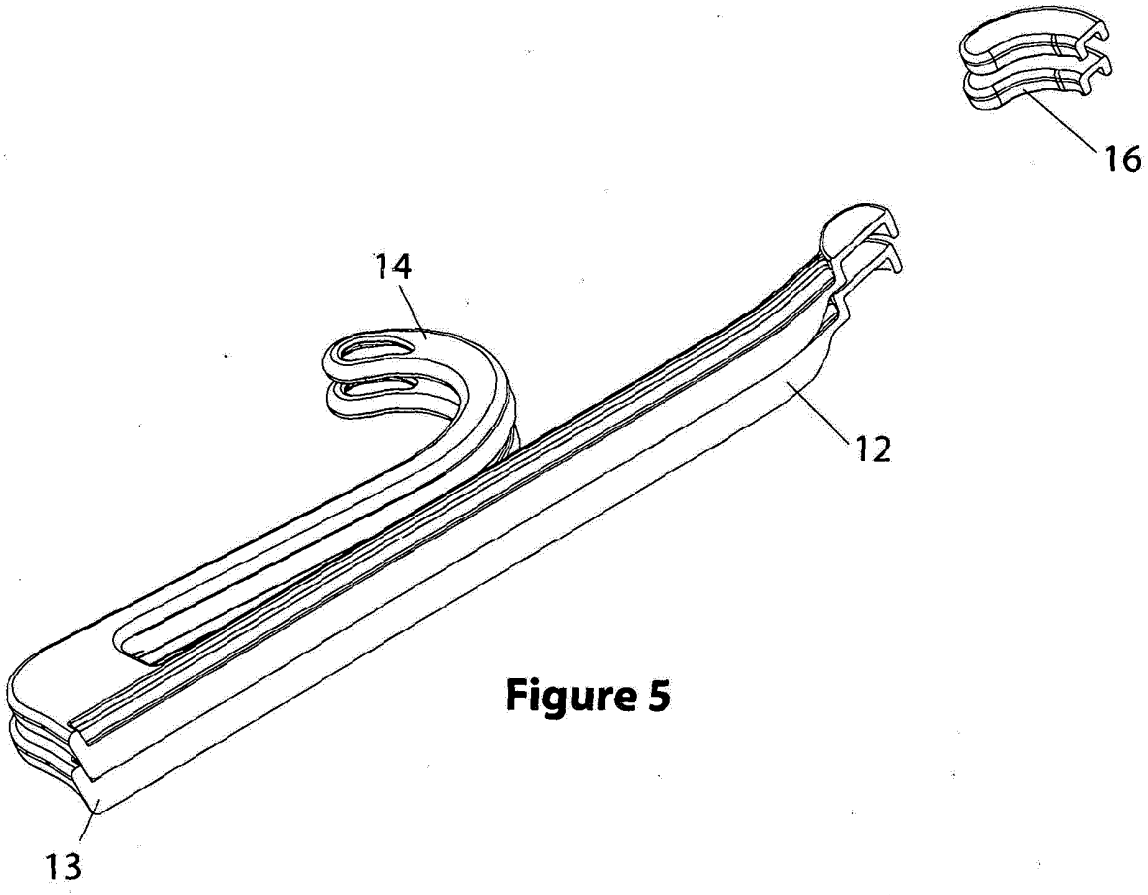



Figure 5

Figure 6a

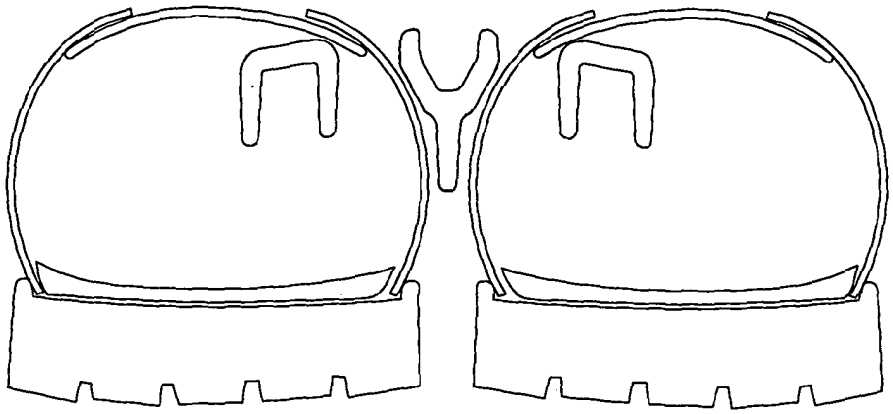


Figure 6b

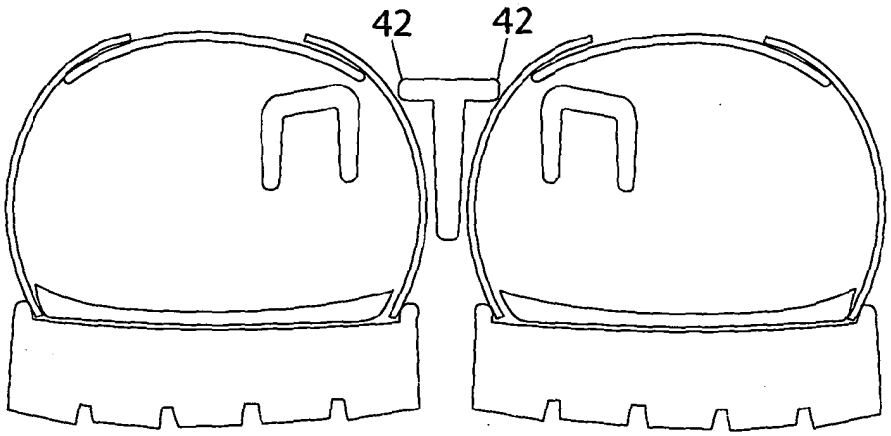



Figure 6c

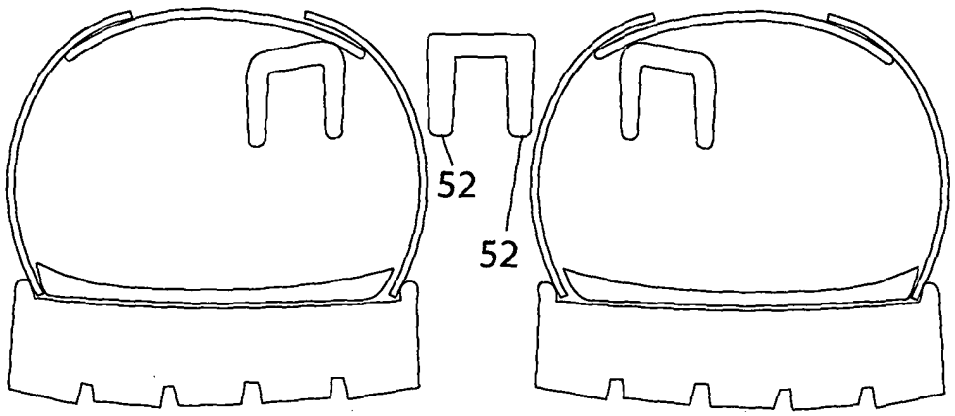


**Figure 7a**

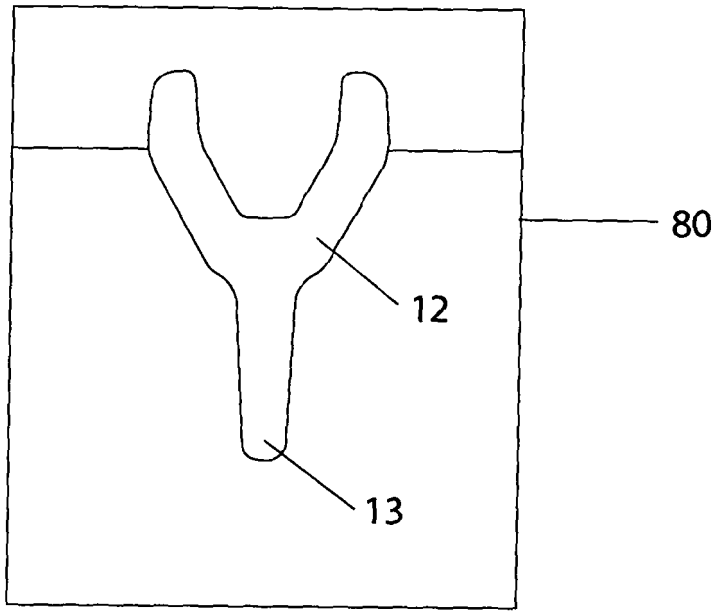



**Figure 7b**

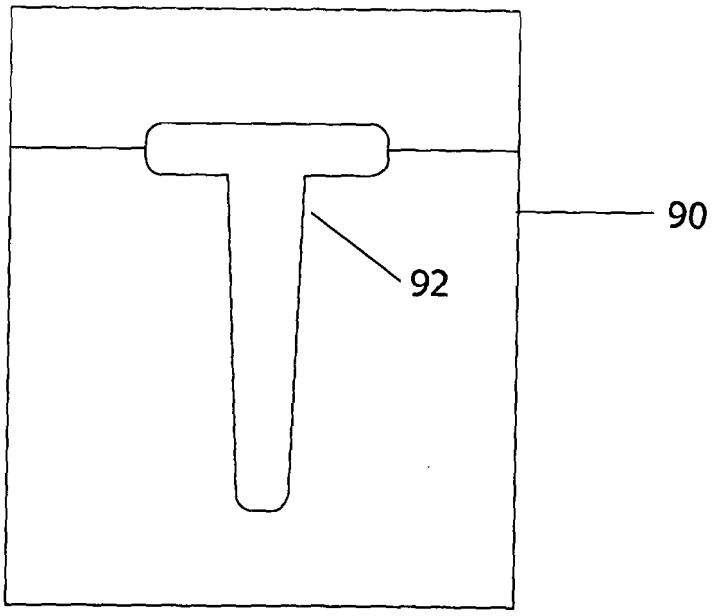


Figure 8a

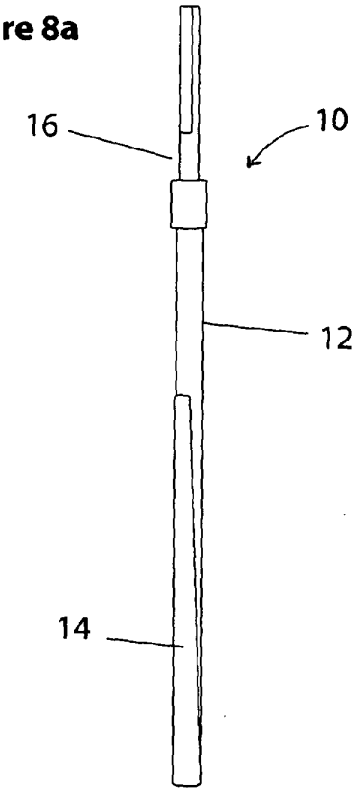



Figure 8b

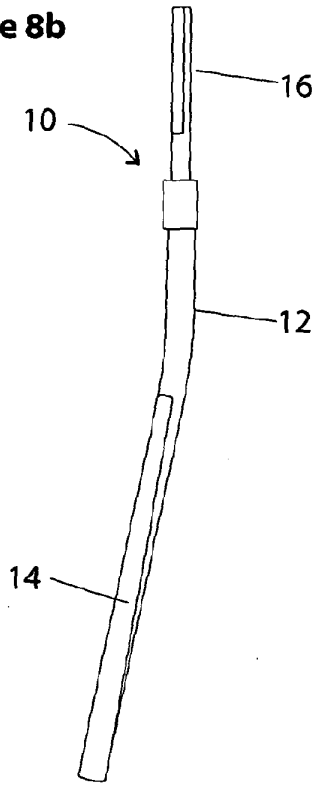



Figure 8c

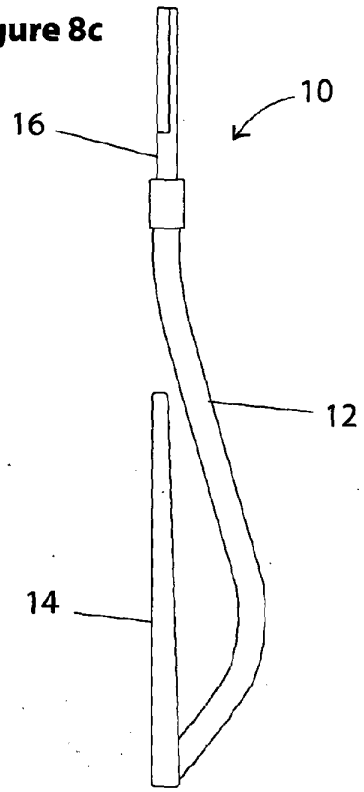
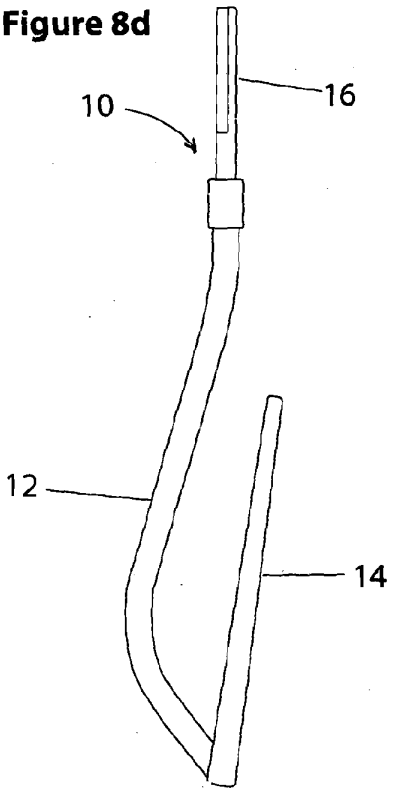



Figure 8d



## REFERENCES CITED IN THE DESCRIPTION

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### Patent documents cited in the description


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