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(54) **AN OVEN COMPRISING A TRAY CARRYING SUPPORT UNIT**

OFEN MIT EINER MULDENTRAGEINHEIT

FOUR COMPRENANT UNE UNITÉ SUPPORT DE PLATEAU

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Description

[0001] The present invention relates to an oven comprising a support unit which is mounted to the side walls for carrying the trays wherein the ingredients to be cooked are placed.

[0002] In ovens, support units are used which are mounted to the side walls for arranging the trays one above the other and spaced apart inside the cooking cavity. A multitude of parts need to be used for mounting the support units inside the oven with sufficient durability and to be mounted and dismounted by the user thereby increasing the production costs of the oven. Moreover, the user is confronted with difficulties when trying to take the said support units out of the oven for cleaning purposes and mounting in the oven again without using auxiliary tools, and a convenience of use cannot be provided.

[0003] In the United States of America Patent Application No US2005172830, in a cooking appliance, support unit which is used for carrying the trays is explained.

[0004] In the Patent Application No EP1553349, in a domestic appliance, especially in a cooking appliance, mounting of an accessory fitting to the inner wall of the oven is explained.

[0005] The aim of the present invention is the realization of an oven comprising a tray carrying support unit which can be easily mounted and dismounted by the user.

[0006] The oven realized in order to attain the aim of the present invention is explicated in the claims.

[0007] In the oven of the present invention, support units are used which are mounted on two side walls of the casing in order to place the trays one above the other and spaced apart in the cooking cavity. The support unit has more than one guiding rod extending from the front backwards in the horizontal direction and a front connecting rod and a rear connecting rod, extending vertically to the guiding rod. The support unit is mounted to a bearing means disposed at the rear side of the side wall such that can make a sliding motion parallel to the side wall, by means of two hanger extensions parallel to each other, extending at the rear side thereof and the user is provided to easily dismount and mount the support unit for example for cleaning purposes. The bearing means is compressed by two hanger extensions from above and below by passing between the hanger extensions when the support unit is mounted and the ends of the hanger extensions extend towards the rear wall of the oven in a free manner behind the bearing means so as to remain within the cooking cavity.

[0008] The bearing means allows the hanger extensions to make a sliding movement parallel to the side wall and at a certain distance away from the side wall during the mounting and dismounting of the support.

[0009] The bearing means has a head section and an externally threaded body and on the head section an annular groove which provides the ends of the hanger extensions to be beared by being seated from the upper

side and lower side in a free manner is disposed.

[0010] In an embodiment of the present invention, the rear connecting rod of the support unit is positioned at a certain distance away from the side wall and functions as a stopper that prevents the trays moving on the guiding rod from colliding with the rear wall. In this embodiment, the support unit furthermore comprises S shaped bends, disposed on the rear ends of the guiding rods, for securing the guiding rods to the rear connecting rod which is away from the side wall at a distance as much as the length of the upper support extension and the lower support extension.

[0011] In another embodiment of the present invention, the support unit comprises a further extension which bends from the end of at least one of the hanger extensions towards the side wall and provides the hanger extensions to align with the bearing means by bearing against the side wall during the assembly of the support unit.

[0012] In another embodiment of the present invention, the support unit comprises two further extensions that move away from each other by bending outwards at the ends of the hanger extensions and the hanger extensions pass to the annular groove by easily fitting onto the bearing means and ease of assembly is provided to the user..

[0013] The oven realized in order to attain the aim of the present invention is illustrated in the attached figures, where:

Figure 1 - is the perspective view of an oven.

Figure 2 - is the perspective view of a support unit.

Figure 3 - is the perspective view of an oven wherein the support unit is mounted on its side wall and a tray is disposed on the support unit.

Figure 4 - is the detailed perspective view of the support unit mounted on the oven side wall.

Figure 5 - is the view of cross-section A - A in Figure 4.

Figure 6 - is the cross - sectional view of the front support extension of a support unit mounted on the oven side wall.

Figure 7 - is the schematic view of the further extensions disposed on the ends of the hanger extensions and the bearing means.

[0014] The elements illustrated in the drawings are numbered as follows:

1. Oven
2. Cooking cavity
3. Rear wall
4. Side wall
5. Casing
6. Support unit
7. Front fitting hole
8. Rear fitting hole
9. Riveted bolt
10. Guiding rod
11. Front connecting rod

12. Rear connecting rod
13. Hanger extension
14. Bearing means
15. Front support extension
16. Head section
17. Body
18. Annular groove
19. Upper support extension
20. Lower support extension
21. 121. Further extension
22. Bend

[0015] The oven (1) comprises a cooking cavity (2) wherein the trays (T) containing the foods to be cooked are placed, a casing (5) in the shape of an open-fronted box, surrounding the cooking cavity (2), and having a top wall, a bottom wall, a rear wall (3) and two side walls (4), a support unit (6) mounted removably on the inner surface of the side wall (4) facing the cooking cavity (2) and providing the trays to be placed therein and to be removed from the cooking cavity (2) by pulling outward in the horizontal direction by supporting the trays (T) to be carried in the cooking cavity (2) one above the other and spaced apart, a front fitting hole (7) disposed on the front side of the side wall (4) for fitting the front of the support unit (6) to the side wall (4), a rear fitting hole (8) for fitting the rear side of the support unit (6) to the side wall (4) and more than one riveted bolt (9) having threads on their inner periphery, fixed to the front and rear fitting holes (7, 8).

[0016] The support unit (6) has more than one guiding rod (10) that extend parallel to the side wall (4) from the front backwards in the horizontal direction, preferably in groups of two, for supporting the trays (T) placed in the cooking cavity (2) from their sides, one above the other and spaced apart, a front connecting rod (11) which connects the front ends of the guiding rods (10), extending vertically to the guiding rods (10) at the front side of the side wall (4) and a rear connecting rod (12) which connects the rear ends of the guiding rods (10), extending vertically to the guiding rods (10) at the rear side of the side wall (4) (Figure 2). The support unit (6) furthermore comprises a front support extension (15) which extends vertically to the side wall (4) by bending from the front end of the guiding rod (10), passing through the side wall (4) and provides the portion thereof behind the side wall (4), to be removably fixed by elements such as a conical end (C) and spring (Y) (Figures 2 and 6).

[0017] The oven (1) of the present invention comprises:

- two hanger extensions (13), disposed in the support unit (6), parallel to each other and extending onwards from the point of connection of two superposed guiding rods (10) to the rear connecting rod (12) towards the rear wall (3), being parallel to the inner surface of the side wall (4) facing the cooking cavity (2) and
- a bearing means (14) mounted to the riveted bolt (9)

at the rear fitting hole (8),

- gripped from above and below by the hanger extensions (13) by passing between two hanger extensions (13) and
- 5 - bearing the hanger extensions (13) in the cooking cavity (2) such that their ends freely extend towards the rear wall (3) (Figure 4).

[0018] The bearing means (14) provides the hanger extensions (13) to be kept vertical and almost at a constant distance (L) to the inner surface of the side wall (4) when the support unit (6) is mounted (Figure 5).

[0019] The bearing means (14) allows the hanger extensions (13) that are seated thereon from above and below to make a sliding motion parallel to the side wall (4) and away from the side wall (4) as much as the said distance (L) during the mounting and dismounting of the support unit (6).

[0020] In the oven (1) of the present invention, while the support unit (6) is mounted to the side wall (4) of the casing (5), a wide movement allowance is provided for the user, particularly at the hard-to-reach rear portion of the side wall (4). While the support unit (6) is mounted, the user firstly holds the support unit (6) vertically and moves backward on the side wall (4) and parallel to the side wall (4) and provides the hanger extensions (13) to be engaged to the bearing means (14). The user then couples the front side of the support unit (6) by moving towards the side wall (4) and thus the assembly of the support unit (6) is completed. The user assembles the support unit (6) with only two simple movements, first by moving backward on the side wall (4) and thereafter by moving the front side of the support unit (6) towards the side wall (4) and takes the support unit (6) out of the oven (1) by applying the opposite of the same movements.

[0021] The bearing means (14) has a head section (16) and an externally threaded body (17). The bearing means (14) is mounted by screwing its body (17) to the riveted bolt (9) fixed to the rear fitting hole (8) such that its head section (16) remains on the inner side of the side wall (4) facing the cooking cavity (2) (Figure 5).

[0022] The bearing means (14) furthermore has an annular groove (18) that surrounds its head section (16) and provides bearing of the ends of the hanger extensions (13) by being freely seated from the upper side and the lower side (Figures 5 and 7).

[0023] The annular groove (18) is sized such that the hanger extensions (13) can move freely therein during the mounting and dismounting of the support unit (6) and when the hanger extensions (13) are seated in the annular groove (18) some amount of space is left therebetween (Figure 5).

[0024] In an embodiment of the present invention, the support unit (6) has an upper support extension (19) and a lower support extension (20) disposed at the upper end and lower end of the rear connecting rod (12), bending to extend towards the side wall (4) vertically and when mounted the ends thereof bearing against the side wall

(4) (Figures 2, 4).

[0025] When the support unit (6) is mounted, the rear connecting rod (12) is not contiguous to the side wall (4) and remains at a distance away from the side wall (4) as much as the length of the upper support extension (19) and the lower support extension (20), thus functioning as a stopper, preventing the tray (T) from colliding with the rear wall (3) and the enamel breakages when the tray (T) placed on the guiding rods (10) is pushed backwards (Figure 4).

[0026] In this embodiment, the support unit (6) furthermore has more than one S shaped bend (22) at the rear ends of the guiding rods (10), extending without contacting the side wall (4) and providing the guiding rods (10) to be fastened to the rear connecting rod (12) that remains at a distance as much as the length of the upper support extension (19) and the lower support extension (20) away from the side wall (4) (Figures 2, 4).

[0027] In another embodiment of the present invention, the support unit (6) has a further extension (21) that bends toward the side wall (4) from the end of at least one of the hanger extensions (13) (Figures 2, 4 and 5). The further extension (21) provides the inner surface of the side wall (4) to be used as a reference surface for the assembly. During the assembly of the support unit (6), the further extension (21) bears against the side wall (4) and allows the hanger extensions (13) to align with the bearing means (14) at the desired distance (L) to the side wall (4), making the assembly process easier for the user.

[0028] In another embodiment of the present invention, the support unit (6) has two further extensions (121) at the ends of the hanger extensions (13) that bend outwards by moving away from each other (Figure 7). In this embodiment, the further extensions (121) provide the hanger extensions (13) to easily engage to the bearing means (14) during the assembly of the support unit (6) and make the assembly process easier for the user.

[0029] In the oven (1) of the present invention, the user is provided with a wide movement allowance in the assembly of the support unit (6) particularly in the hard to reach rear side of the side wall (4) and the support unit (6) can be easily mounted and dismantled to/from the casing (5).

[0030] It is to be understood that the present invention is not limited by the embodiments disclosed above and a skilled person in the art can easily introduce different embodiments. These should be considered within the scope of the protection postulated by the claims of the present invention.

Claims

1. An oven (1) that comprises a cooking cavity (2) wherein the trays (T) are placed, a casing (5) in the shape of an open-fronted box, surrounding the cooking cavity (2) and having a rear wall (3) and two side

walls (4), a front fitting hole (7) disposed on the front side of the side wall (4), a rear fitting hole (8) disposed on the rear side of the side wall (4), and more than one riveted bolt (9) fixed to the front and rear fitting holes (7, 8) and a support unit (6) mounted removably on the inner surface of the side wall (4) facing the cooking cavity (2), and which has more than one guiding rod (10) that extend parallel to the side wall (4) from the front backwards in the horizontal direction, a front connecting rod (11) and a rear connecting rod (12) extending vertically to the guiding rods (10), and **characterized by** two hanger extensions (13), disposed in the support unit (6), parallel to each other and extending onwards from the point of connection of two superposed guiding rods (10) to the rear connecting rod (12) towards the rear wall (3), being parallel to the inner surface of the side wall (4) facing the cooking cavity (2) and a bearing means (14) mounted to the riveted bolt (9) at the rear fitting hole (8), gripped from above and below by the hanger extensions (13) by passing between two hanger extensions (13) and bearing the hanger extensions (13) in the cooking cavity (2) such that their ends freely extend towards the rear wall (3).

2. An oven (1) as in Claim 1, **characterized by** the bearing means (14) that provides the hanger extensions (13) to be kept vertical and almost at a constant distance (L) to the inner surface of the side wall (4) when the support unit (6) is mounted.
3. An oven (1) as in Claim 1 or 2, **characterized by** the bearing means (14) that allows the hanger extensions (13) to make a sliding motion parallel to the side wall (4) during the mounting and dismantling of the support unit (6).
4. An oven (1) as in any one of the above Claims, **characterized by** the bearing means (14) comprising a head section (16) and an externally threaded body (17), which is mounted by screwing its body (17) to the riveted bolt (9) fixed to the rear fitting hole (8) such that its head section (16) remains on the inner side of the side wall (4) facing the cooking cavity (2).
5. An oven (1) as in Claim 4, **characterized by** the bearing means (14) comprising an annular groove (18) that surrounds its head section (16) and bears the ends of the hanger extensions (13) by being freely seated from the upper side and the lower side.
6. An oven (1) as in any one of the above Claims, **characterized by** the support unit (6) comprising an upper support extension (19) and a lower support extension (20) disposed at the upper end and lower end of the rear connecting rod (12), and bending to extend in the vertical direction towards the side wall (4) and the ends thereof bearing against the side

wall (4) when mounted.

7. An oven (1) as in Claim 6, **characterized by** the support unit (6) comprising more than one S shaped bend (22) disposed at the rear ends of the guiding rods (10), extending without contacting the side wall (4) and providing the guiding rods (10) to be fastened to the rear connecting rod (12) that remains at a distance as much as the length of the upper support extension (19) and the lower support extension (20) away from the side wall (4).
8. An oven (1) as in any one of the above Claims, **characterized by** the support unit (6) comprising a further extension (21) that bends toward the side wall (4) from the end of at least one of the hanger extensions (13), thereby providing the hanger extensions (13) to align with the bearing means (14) by bearing against the side wall (4).
9. An oven (1) as in any one of the Claims 1 to 7, **characterized by** the support unit (6) comprising two further extensions (121) at the ends of the hanger extensions (13) that bend outwards by moving away from each other.

Patentansprüche

1. Ofen (1), der einen Zubereitungsraum (2), in den die Bleche (T) gegeben werden, ein Gehäuse (5) in der Form eines Kastens mit offener Stirnseite, das den Zubereitungsraum (2) umgibt und eine Rückwand (3) und zwei Seitenwände (4) aufweist, eine vordere Anbringöffnung (7), die an der Stirnseite der Seitenwand (4) angeordnet ist, eine hintere Anbringöffnung (8), die an der Rückseite der Seitenwand (4) angeordnet ist, und mehrere Nietbolzen (9), die an der vorderen und hinteren Anbringöffnung (7, 8) befestigt sind, und eine Trageeinheit (6) umfasst, die lösbar an der Innenfläche der Seitenwand (4) angebracht ist und dem Zubereitungsraum (2) zugewandt ist und mehrere Führungsstangen (10), die sich in horizontaler Richtung parallel zur Seitenwand (4) von vorne nach hinten erstrecken, eine vordere Verbindungsstange (11) und eine hintere Verbindungsstange (12) aufweist, die sich vertikal zu den Führungsstangen (10) erstrecken, und **gekennzeichnet durch**
 - zwei Aufhängeverlängerungen (13), die in der Trageeinheit (6) parallel zueinander angeordnet sind und sich dem Verbindungspunkt der zwei darüber gelagerten Führungsstangen (10) an der hinteren Verbindungsstange (12) zur Rückwand (3) erstrecken und parallel zur Innenfläche der Seitenwand (4) sind, die dem Zubereitungsraum (2) zugewandt ist, und

- ein Lagermittel (14), das an dem Nietbolzen (9) an der hinteren Anbringöffnung (8) angebracht ist,
- von oben und unten von den Aufhängeverlängerungen (13) ergriffen wird, indem es zwischen den zwei Aufhängeverlängerungen (13) hindurch verläuft, und
- die Aufhängeverlängerungen (13) im Zubereitungsraum (2) lagert, derart, dass ihre Enden sich frei zur Rückwand (3) erstrecken.

2. Ofen (1) nach Anspruch 1, **dadurch gekennzeichnet, dass** das Lagermittel (14) dafür sorgt, dass die Aufhängeverlängerungen (13) vertikal und nahezu in einem konstanten Abstand (L) zur Innenfläche der Seitenwand (4) gehalten werden, wenn die Trageeinheit (6) angebracht ist.
3. Ofen (1) nach Anspruch 1 oder 2, **dadurch gekennzeichnet, dass** das Lagermittel (14) es ermöglicht, dass die Aufhängeverlängerungen (13) während des Anbringens und LöSENS der Trageeinheit (6) eine Gleitbewegung parallel zur Seitenwand (4) vollziehen.
4. Ofen (1) nach einem der vorangehenden Ansprüche, **dadurch gekennzeichnet, dass** das Lagermittel (14) einen Kopfabschnitt (16) und einen Außengewindekörper (17) umfasst, der durch Verschrauben seines Körpers (17) mit dem Nietbolzen (9) angebracht ist, der an der hinteren Anbringöffnung (8) angebracht ist, derart, dass sein Kopfabschnitt (16) auf der Innenseite der Seitenwand (4) bleibt, die dem Zubereitungsraum (2) zugewandt ist.
5. Ofen (1) nach Anspruch 4, **dadurch gekennzeichnet, dass** das Lagermittel (14) eine Ringnut (18) umfasst, die seinen Kopfabschnitt (16) umgibt und die Enden der Aufhängeverlängerungen (13) lagert, indem sie von der oberen Seite und der unteren Seite frei darin sitzen.
6. Ofen (1) nach einem der vorangehenden Ansprüche, **dadurch gekennzeichnet, dass** die Trageeinheit (6) eine obere Trageverlängerung (19) und eine untere Trageverlängerung (20) umfasst, die am oberen Ende und unteren Ende der hinteren Verbindungsstange (12) angeordnet sind und sich derart biegen, dass sie sich in vertikaler Richtung zur Seitenwand (4) erstrecken und ihre Enden bei der Anbringung an der Seitenwand (4) anliegen.
7. Ofen (1) nach Anspruch 6, **dadurch gekennzeichnet, dass** die Trageeinheit (6) mehrere S-förmige Biegungen (22) umfasst, die an den hinteren Enden der Führungsstangen (10) angeordnet sind und sich ohne Kontakt mit der Seitenwand (4) erstrecken und dafür sorgen, dass die Führungsstangen (10) an der

hinteren Seitenstange (12) befestigt sind, die um die Länge der oberen Trageverlängerung (19) und der unteren Trageverlängerung (20) von der Seitenwand (4) beabstandet bleibt.

8. Ofen (1) nach einem der vorangehenden Ansprüche, **dadurch gekennzeichnet, dass** die Trageeinheit (6) eine weitere Verlängerung (21) umfasst, die sich von dem Ende von wenigstens einer der Aufhängeverlängerungen (13) zur Seitenwand (4) biegt und dadurch dafür sorgt, dass die Aufhängeverlängerungen (13) an den Lagermitteln (14) ausgerichtet sind, indem sie an der Seitenwand (4) anliegen.
9. Ofen (1) nach einem der vorangehenden Ansprüche 1 bis 7, **dadurch gekennzeichnet, dass** die Trageeinheit (6) zwei weitere Verlängerungen (121) an den Enden der Aufhängeverlängerungen (13) umfasst, die sich unter voneinander nach außen biegen.

Revendications

1. Un four (1) qui comprend une chambre de cuisson (2) dans laquelle les plats (T) sont placés, un revêtement (5) en forme d'un boîtier ouvert à sa partie avant qui entoure la chambre de cuisson (2) et présente une paroi arrière (3) et deux parois latérales (4), un trou de fixation avant (7) arrangé sur le côté avant de la paroi latérale (4), un trou de fixation arrière (8) arrangé sur le côté arrière de la paroi latérale (4), et plus d'un boulon rivé (9) fixé aux trous de fixation avant et arrière (7, 8) et une unité de support (6) montée de manière détachable sur la surface intérieure de la paroi latérale (4) en face de la chambre de cuisson (2), et qui présente plus d'une tige de guidage (10) qui s'étend parallèlement à la paroi latérale (4) de l'avant vers l'arrière dans la direction horizontale, une tige reliant avant (11) et une tige reliant arrière (12) qui s'étendent verticalement aux tiges de guidages (10),
et **caractérisé par**

- deux extensions de suspension (13) qui sont disposées dans l'unité de support (6) parallèlement l'une à l'autre et qui s'étendent en avant à partir du point de raccordement de deux tiges de guidage (10) superposées à la tige reliant arrière (12) vers la paroi arrière (3), parallèlement à la surface intérieure de la paroi latérale (4) en face de la chambre de cuisson (2) et
- un palier (14) monté au boulon rivé (9) au trou de fixation arrière (8),
- saisie par le haut et par le bas par les extensions de suspension (13) en passant entre les deux extensions de suspension (13) et
- supportant les extensions de suspension (13) dans la chambre de cuisson (2) de telle sorte

que leurs extrémités s'étendent librement vers la paroi arrière (3).

2. Un four (1) selon la Revendication 1, **caractérisé par** le palier (14) qui permet aux extensions de suspension (13) d'être tenues verticales et presque à une distance constante (L) à la surface intérieure de la paroi latérale (4) lorsque l'unité de support (6) est montée.
3. Un four (1) selon la Revendication 1 ou 2, **caractérisé par** le palier (14) qui permet aux extensions de suspension (13) de faire un mouvement de coulissement parallèlement à la paroi latérale (4) au cours du montage et du démontage de la unité de support (6).
4. Un four (1) selon l'une quelconque des revendications précédentes, **caractérisé par** le palier (14) qui comprend une section de tête (16) et un corps fileté extérieurement (17), qui est monté en visant son corps (17) au boulon rivé (9) fixé au trou de fixation arrière (8) de telle sorte que sa section de tête (16) reste au côté intérieur de la paroi latérale (4) en face de la chambre de cuisson (2).
5. Un four (1) selon la Revendication 4, **caractérisé par** le palier (14) comprenant une rainure annulaire (18) qui entoure sa section de tête (16) et supporte les extrémités des extensions de suspension (13) en étant assises librement à partir du côté supérieur et du côté inférieur.
6. Un four (1) selon l'une quelconque des revendications précédentes, **caractérisé par** l'unité de support (6) comprend une extension de support supérieure (19) et une extension de support inférieure (20) qui sont arrangées à l'extrémité supérieure et à l'extrémité inférieure de la tige reliant arrière (12) et qui se plient afin de s'étendre dans la direction verticale vers la paroi latérale (4) et dont les extrémités s'appuient sur la paroi latérale (4) lorsqu'elles sont montées.
7. Un four (1) selon la Revendication 6, **caractérisé par** l'unité de support (6) comprenant plus d'une courbe en forme de S (22) qui est arrangée aux extrémités arrières des tiges de guidage (10), qui s'étend sans contact avec la paroi latérale (4) et qui permet aux tiges de guidage (10) d'être fixées à la tige reliant arrière (12) qui reste à une distance autant que la longueur de l'extension de support supérieure (19) et de l'extension de support inférieure (20) loin de la paroi latérale (4).
8. Un four (1) selon l'une quelconque des revendications précédentes, **caractérisé par** l'unité de support (6) comprenant une extension auxiliaire (21) qui

se plie vers la paroi latérale (4) à partir de l'extrémité d'au moins une des extensions de suspension (13), donc permettant aux extensions de suspension (13) de s'aligner avec le palier (14) en s'appuyant sur la paroi latérale (4).

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9. Un four (1) selon l'une quelconque des revendications de 1 à 7, **caractérisé par** l'unité de support (6) comprenant deux extensions auxiliaires (121) aux extrémités des extensions de suspension (13), qui se plient vers l'extérieur en s'éloignant l'une de l'autre.

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Figure 1

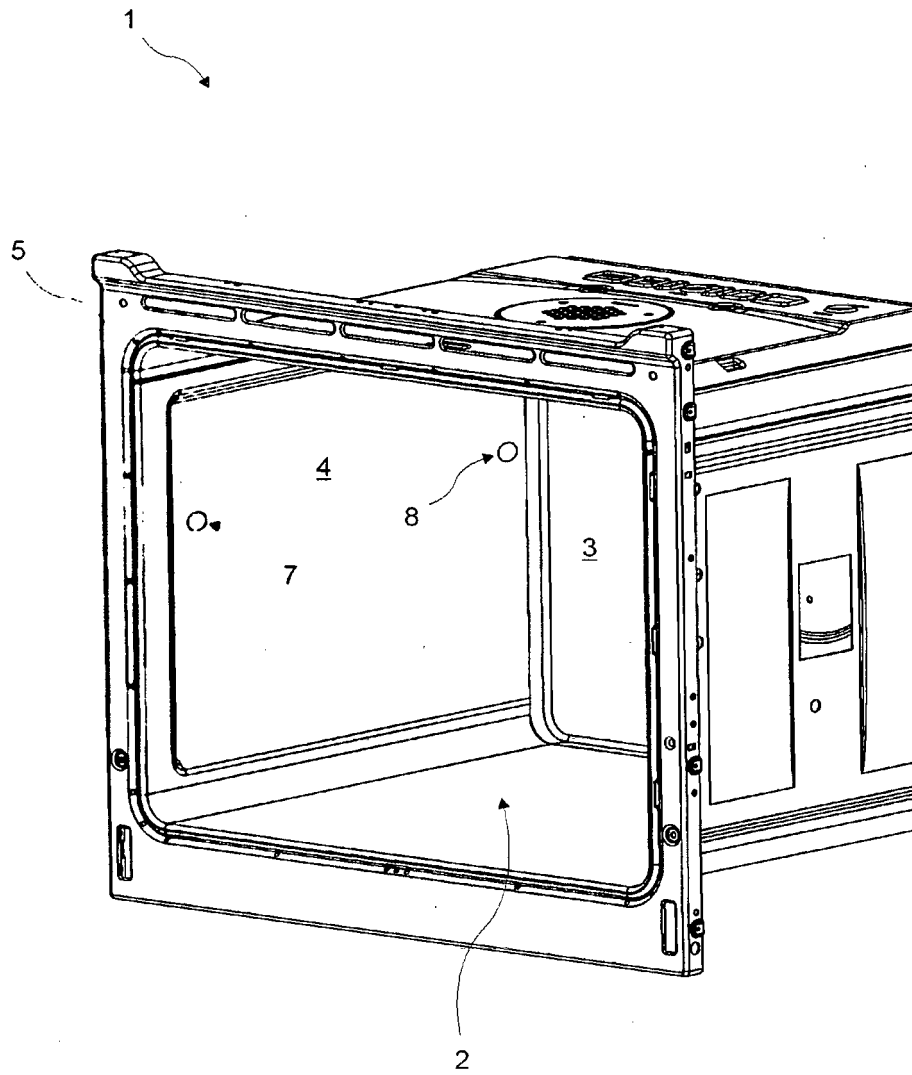


Figure 2

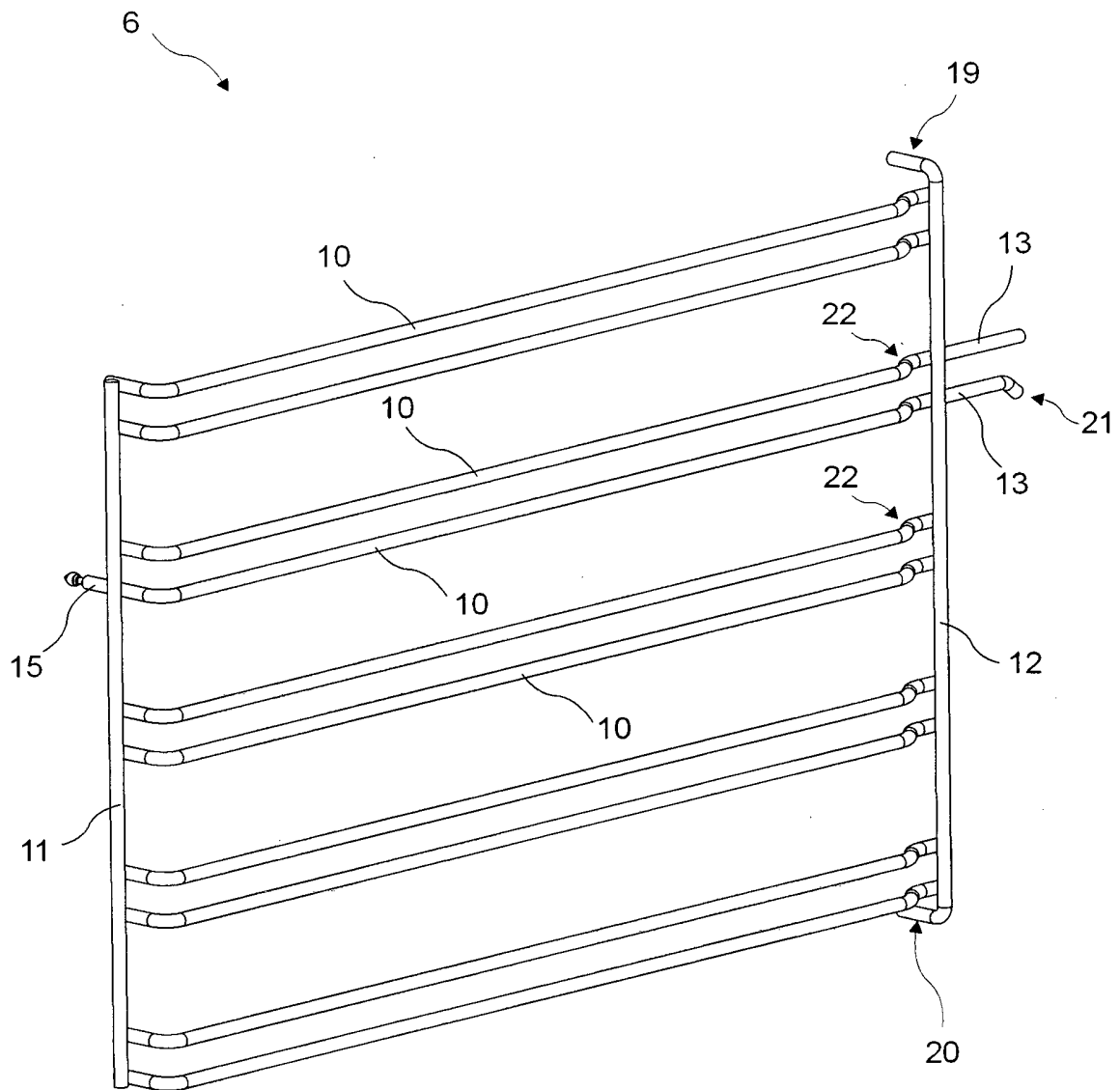


Figure 3

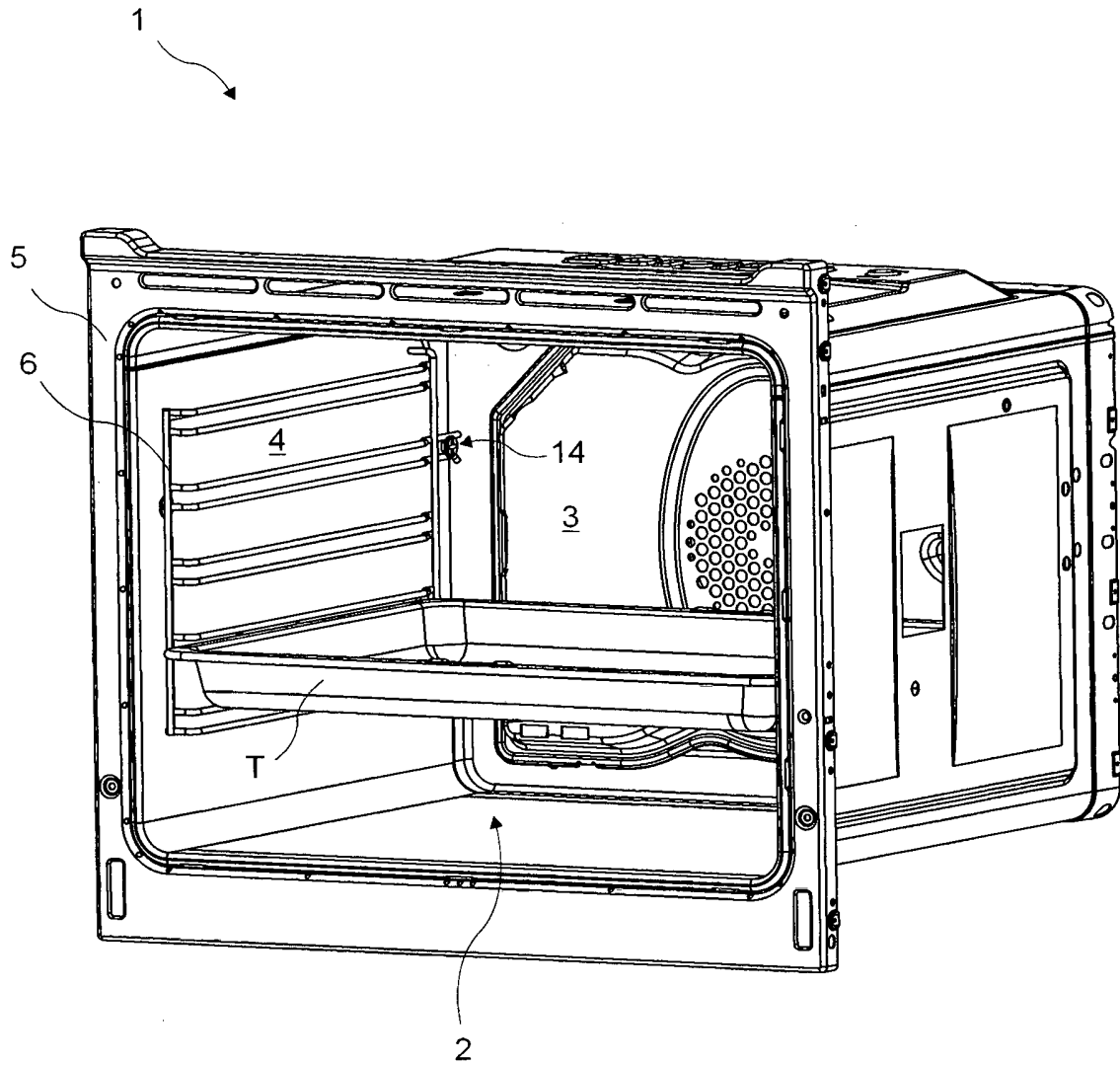


Figure 4

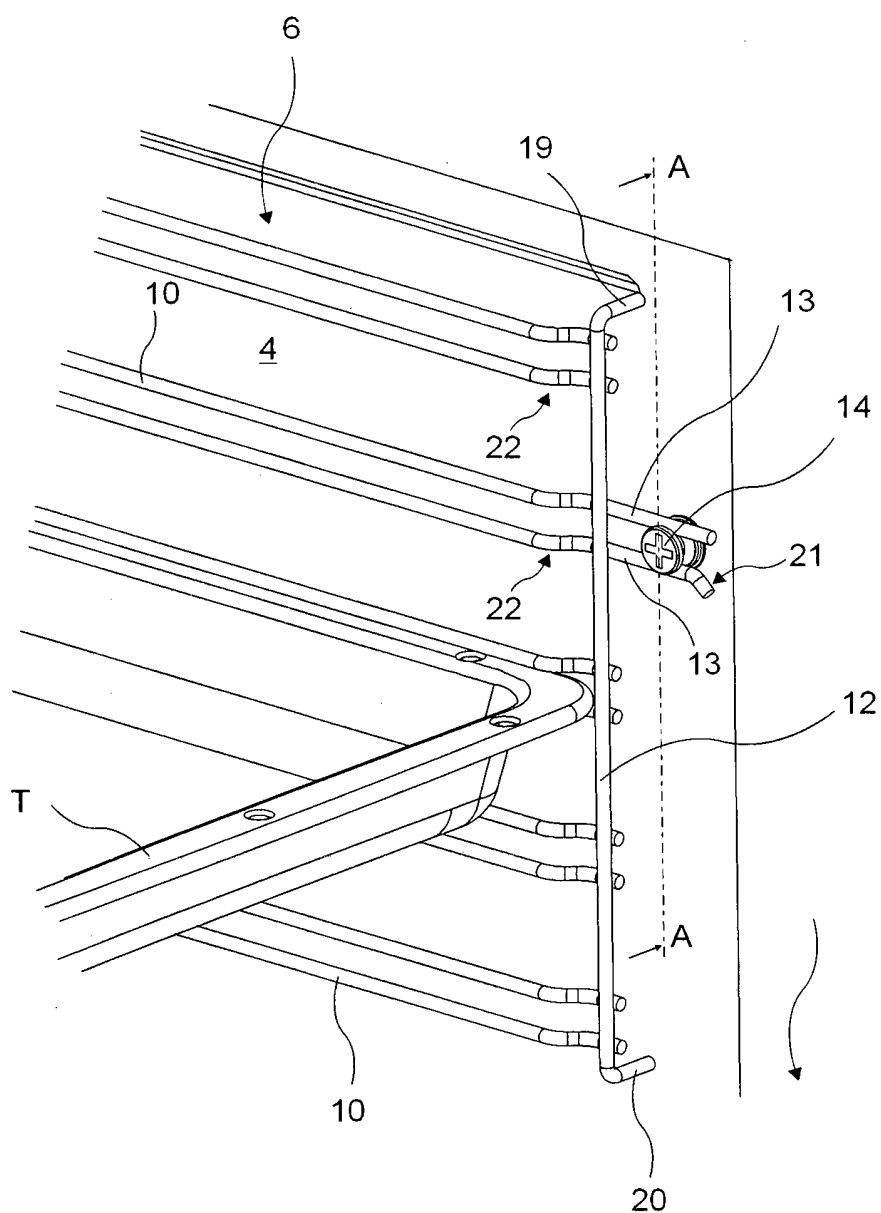


Figure 5

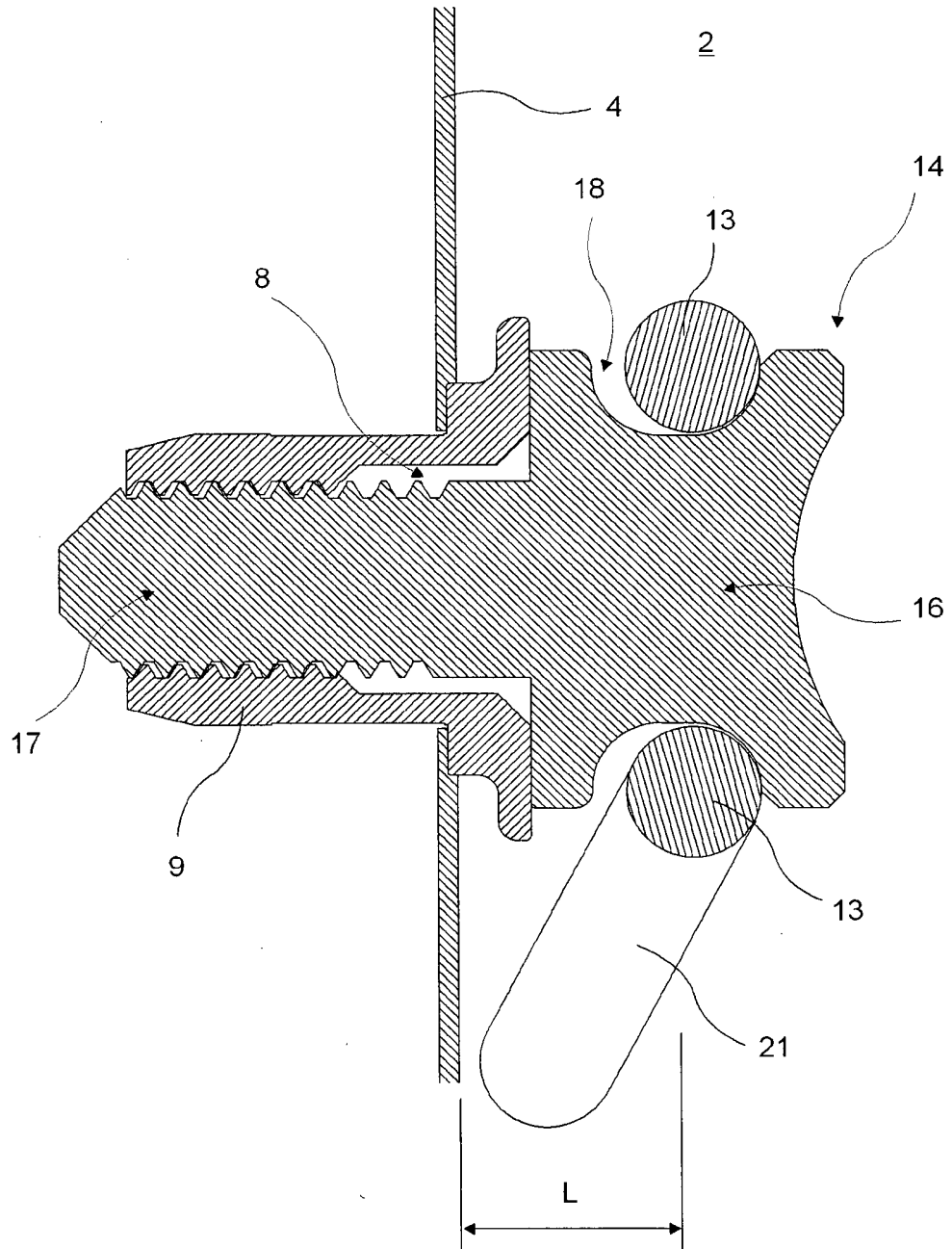


Figure 6

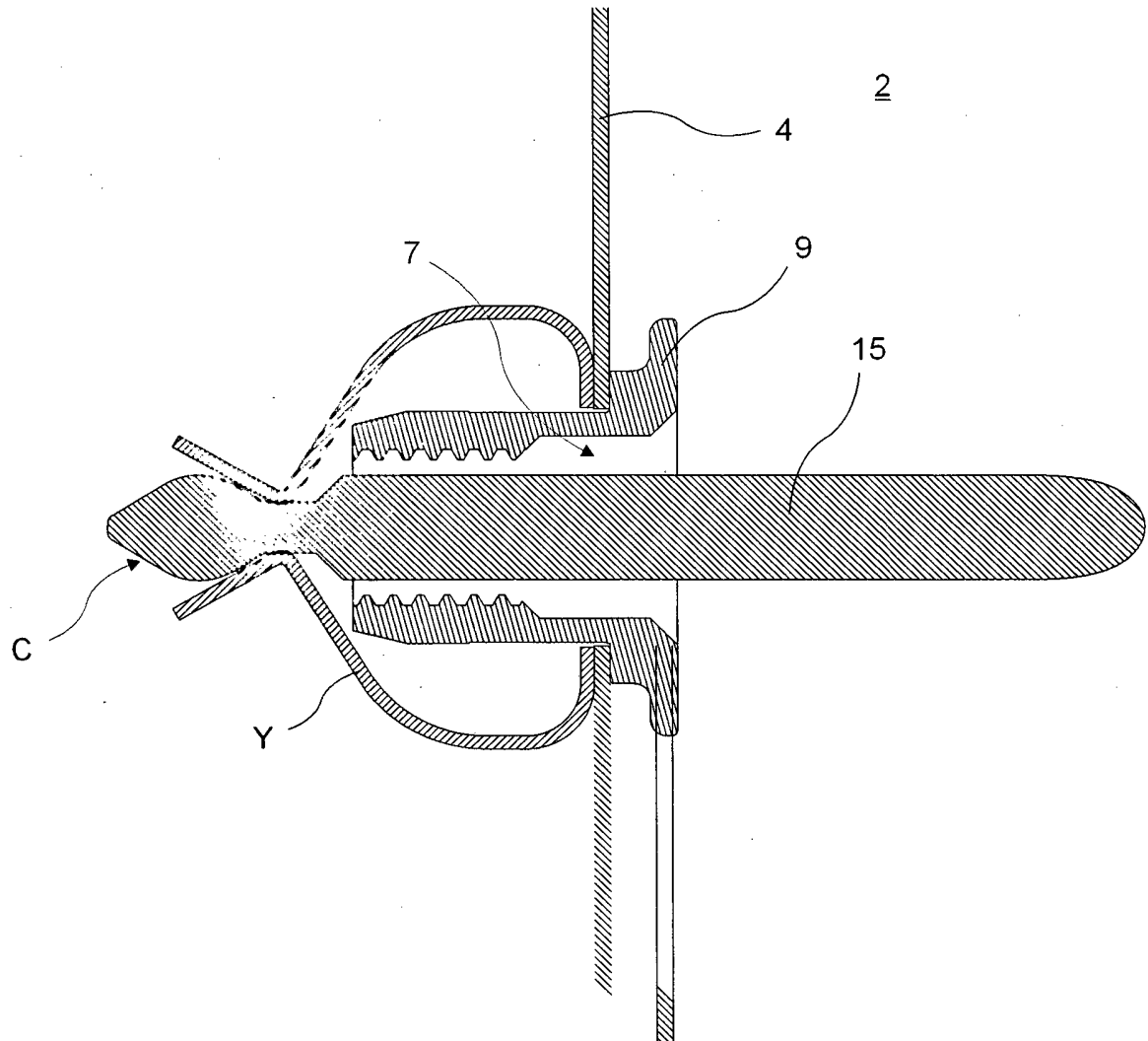
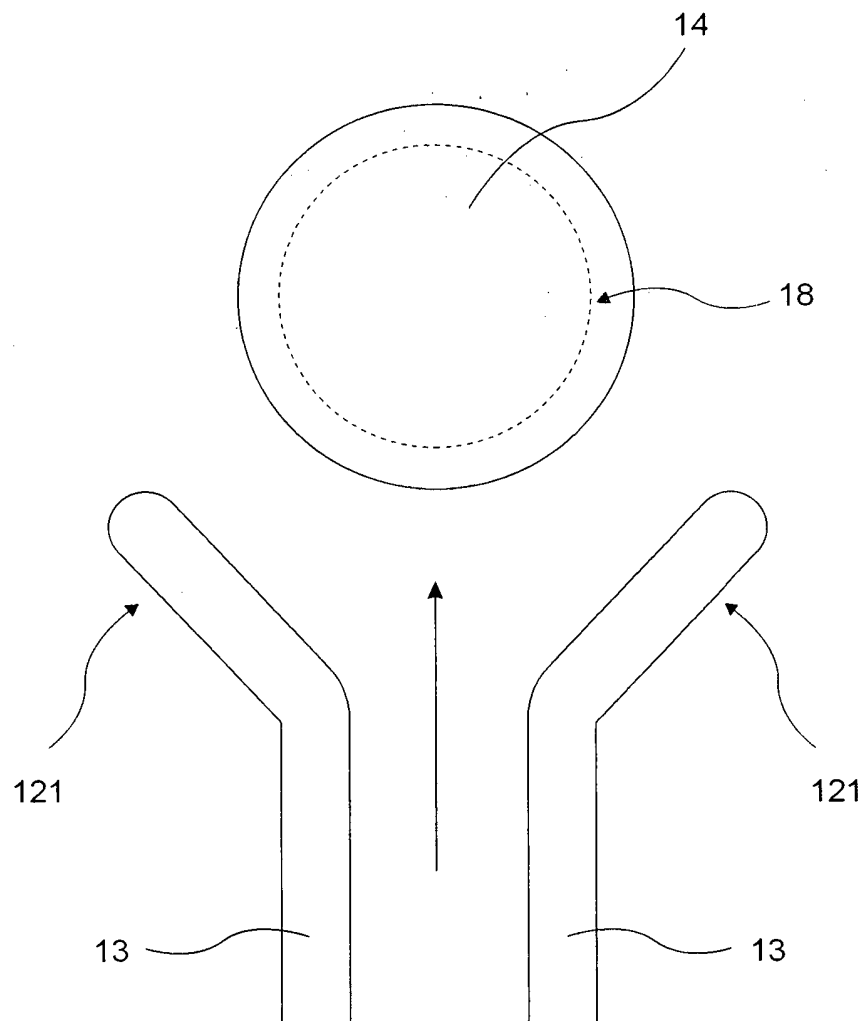


Figure 7



REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

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