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(54) **An oven cavity for a cooking oven**

Ofeninnenraum für einen Kochherd

Cavité de four pour four de cuisson

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EP 2 390 585 B1

Description

[0001] The present invention relates to an oven cavity for a cooking oven according to the preamble of claim 1. Further, the present invention relates to a method for assembling a protection box for a bottom heating element to a bottom wall of an oven cavity for a cooking oven. A typical oven cavity for a cooking oven includes a bottom heating element arranged below a bottom wall of said oven cavity. The bottom heating element is usually enclosed by a protection box. The protection box is attached at a bottom side of the oven cavity, so that the bottom heating element is arranged between the bottom wall of the oven cavity and the protection box.

[0002] The protection box is screwed or welded at a flange of the oven cavity. Said flange encloses completely or partially a front opening of the oven cavity. Further, the protection box may be snapped in place at the flange of the oven cavity, wherein subsequently laps are bended over. These methods for mounting the protection box at the flange are very laborious.

[0003] DE 10 2004 003 116 A1 discloses a cooking oven with a holding plate for the bottom heating element. The front portion of the holding plate comprises hooks for clipping into corresponding openings in a flange of the oven cavity. The rear portion of the holding plate comprises slots for receiving a corresponding lug of the oven cavity, so that the rear portion of the holding plate can be clipped at the oven cavity. However, the walls of the oven cavity, in particular the bottom wall, can be inserted after the holding plate. US 2,798,930 discloses a cooking oven with a number of removable drawer-like trays. Said trays include different kinds of heating elements. Some of said trays form cooking hobs. Another tray includes a heating element for the bottom of the oven cavity.

[0004] FR 2 653 209 A1 discloses an oven cavity with a top heating element and a bottom heating element. The bottom heating element is enclosed by a protection box arranged below the oven cavity. The protection box is permanently connected to the oven cavity, while the bottom heating element is removable from the protection box in a drawer-like manner.

[0005] US 2004/177840 A1 discloses a gas burner module for a cooking appliance. The gas burner module is arrangeable in the bottom of the oven cavity. The gas burner module includes a base plate forming the bottom of the oven cavity.

[0006] It is an object of the present invention to provide an improved oven cavity with a protection box for the bottom heating element, wherein the protection box may be connected to the bottom side of the oven cavity by a simple way.

[0007] The object of the present invention is achieved by the oven cavity according to claim 1.

[0008] According to the present invention a first and a second angled appendix are arranged at the front portion of the protection box, wherein said angled appendices are engageable with at least one corresponding element

of the cavity flange and/or the oven cavity, wherein the first and the second angled appendices correspond with a T-shaped appendix at the cavity flange and the rear portion of the protection box comprises at least one lug element connected or connectable to a corresponding slot at the rear wall and/or at the bottom wall of the oven cavity..

[0009] The core of the present invention is that at first the front portion of the protection box is inserted into the cavity flange and the rear portion of said protection box is connected by the at least one fastening element to the rear and/or bottom wall of the oven cavity. This concept allows a very simple assembling of the protection box at the oven cavity. A use of screws or a welding is not required for the assembling of the protection box at the oven cavity. The present invention allows that the protection box can be made of metal sheet with a thickness of less than 0.4 mm. Said T-shaped appendix and the angled appendices prevent that the protection box moves backwards.

[0010] Preferably, the cavity flange has a U-shaped profile, wherein an open side of said U-shaped profile is directed to a rear side of the oven cavity. The U-shaped profile supports the insertion of the front portion of the protection box into the cavity flange.

[0011] Further, a flange section may be formed at the front portion of the protection box, wherein said flange section is inserted in or insertable into the cavity flange of the oven cavity.

[0012] In particular, at least one resilient deformable appendix is formed at the front portion of the protection box, wherein said resilient deformable element is inserted in or insertable into the cavity flange. This allows an additional fastening of the protection box.

[0013] For example, at least one resilient deformable appendix is tongue-shaped and directed forward.

[0014] Alternatively or additionally, at least one resilient deformable appendix has the form of a ring section.

[0015] Preferably, at least one tongue-shaped appendix is enclosed by the appendix with the form of the ring section. The tongue-shaped appendix and the appendix with the form of the ring section may extend within different planes.

[0016] For example, the slot may be formed in a lamellar bar arranged at the rear wall and/or at the bottom wall of the oven cavity.

[0017] Preferably, the lug element comprises at least one barbed hook.

[0018] Further, the present invention relates to a method for assembling a protection box for a bottom heating element to a bottom wall of an oven cavity for a cooking oven, which method comprises the steps of:

- inserting a front portion of the protection box into a cavity flange of the oven cavity, and
- connecting at least one fastening element at a rear portion of the protection box to a rear wall and/or a bottom wall of the oven cavity.

[0019] At last, the present invention relates to a cooking oven with at least one oven cavity, wherein the cooking oven comprises at least one oven cavity described above.

[0020] Novel and inventive features of the present invention are set forth in the appended claims.

[0021] The present invention will be described in further details with reference to the accompanied drawings, in which

FIG 1 illustrates a perspective view of an oven cavity for a cooking oven according to a preferred embodiment of the present invention,

FIG 2 illustrates a perspective view of the oven cavity with a protection box at a bottom side of the oven cavity according to the preferred embodiment of the present invention,

FIG 3 illustrates a perspective view of the oven cavity with the protection box in a semi-mounted state according to the preferred embodiment of the present invention,

FIG 4 illustrates a detailed perspective view of a front portion of the protection box in an unmounted state at the oven cavity according to the preferred embodiment of the present invention,

FIG 5 illustrates a detailed perspective view of the front portion of the protection box in a semi-mounted state at the oven cavity according to the preferred embodiment of the present invention, and

FIG 6 illustrates a more detailed perspective view of the front portion of the protection box in a mounted state at the oven cavity according to the preferred embodiment of the present invention.

[0022] FIG 1 illustrates a perspective view of an oven cavity 10 for a cooking oven according to a preferred embodiment of the present invention. FIG 1 shows the oven cavity 10 from its rear side.

[0023] The oven cavity 10 includes a top wall 16, a rear wall 18, two side walls 20, a bottom wall 22 and a front opening. The front opening is enclosed by a cavity flange 14. In this example, the cavity flange 14 has a U-shaped profile, wherein the open side of said U-shaped profile is directed to the rear side of the oven cavity 10.

[0024] A protection box 12 is attached below the bottom wall 22. The protection box 12 encloses partially a bottom heating element arranged below the bottom wall 22. Thus, the bottom heating element is arranged between the bottom wall 22 and the protection box 12.

[0025] FIG 2 illustrates a perspective view of the oven cavity 10 with the protection box 12 at the bottom wall 22

of the oven cavity 10 according to the preferred embodiment of the present invention. FIG 2 clarifies the arrangement of the protection box 12 at the bottom wall 22.

[0026] The protection box 12 comprises a flange section 24 extending along the front side of said protection box 12. The flange section 24 is inserted in a lower part of the cavity flange 14. Thus, the front portion of the protection box 12 is hanging in said lower part of the cavity flange 14.

[0027] Further, the protection box 12 comprises two curved lug elements 26. The lug elements 26 are inserted in two corresponding slots 28 at the rear wall 18 of the oven cavity 10. The slots 28 are formed in a lamellar bar 30 at the rear wall 18, wherein the plane of said lamellar bar 30 extends perpendicular to the plane of the rear wall 18. In this example, the lug elements 26 comprise two lateral barbed hooks 32 in each case. Thus, the lug element 26 with the both barbed hooks 32 and the corresponding slot 28 form a snap-in mechanism.

[0028] The protection box 12 is attached at the bottom wall 22 by inserting the flange section 24 into the lower part of the cavity flange 14 and subsequent inserting the lug elements 26 into the corresponding slots 28.

[0029] FIG 3 illustrates a perspective view of the oven cavity 10 with the protection box 12 in a semi-mounted state according to the preferred embodiment of the present invention. In this situation, the flange section 24 of the protection box 12 is inserted in the lower part of the cavity flange 14, while the lug elements 26 are not yet inserted into the corresponding slots 28.

[0030] FIG 3 clarifies that the flange section 24 of the protection box is inserted into the lower part of the cavity flange 14 in a first step, and the lug elements 26 are inserted into the corresponding slots 28 in a second step.

[0031] FIG 4 illustrates a detailed perspective view of a front portion of the protection box 12 in an unmounted state at the oven cavity 10 according to the preferred embodiment of the present invention. In FIG 4 the oven cavity 10 with the protection box 12 is shown upside-down.

[0032] The protection box 12 comprises the flange section 24. In this example, the flange section 24 comprises two inner appendices 34. Each inner appendix 34 is enclosed by a corresponding outer appendix 36. The inner appendices 34 and the outer appendices 36 extend forward. The inner appendices 34 are tongue-shaped. The outer appendices 36 are U-shaped or have the form of a circular ring section.

[0033] The inner appendices 34 and the outer appendices 36 are provided for inserting into the cavity flange 14. After inserting into the cavity flange 14 the inner 34 and outer 36 appendices are resiliently deformed, so that they snap into place within the cavity flange 14.

[0034] Further, a T-shaped appendix 38 is provided in the centre of the lower part of the cavity flange 14. The T-shaped appendix 38 is directed rearward. In a similar way, two angled appendices 40 are arranged in the centre of the flange section 24. The angled appendices 40

are directed upward in FIG 4, and directed downward in reality. The distance between said angled appendices 40 corresponds with the T-shaped appendix 38, so that the T-shaped appendix 38 of the cavity flange 14 engages with both angled appendices 40 of the flange section 24, when said flange section 24 is inserted in the cavity flange 14.

[0035] FIG 5 illustrates a detailed perspective view of the front portion of the protection box 12 in a semi-mounted state at the oven cavity 10 according to the preferred embodiment of the present invention. The flange section 24 of the protection box 12 is partially inserted in the cavity flange 14.

[0036] The inner appendices 34, the outer appendices 36 and the angled appendices 40 of the flange section 24 are hidden by the cavity flange 14. During the insertion the protection box 12 is inclined.

[0037] FIG 6 illustrates a more detailed perspective view of the front portion of the protection box 12 in a mounted state at the oven cavity 10 according to the preferred embodiment of the present invention. FIG 6 shows the T-shaped appendix 38 of the cavity flange 14 engaged between the angled appendices 40. The T-shaped appendix 38 and the angled appendices 40 prevent that the protection box 12 moves backwards.

[0038] The oven cavity 10 according to the present invention allows a very simple assembling of the protection box 12 at the oven cavity 10. A use of screws or a welding is not required for the assembling of the protection box 12 at the oven cavity 10.

[0039] The protection box 12 can be made of metal sheet with a thickness of less than 0.4 mm.

[0040] The protection box 12 described above is provided for the bottom heating element. Further, the protection box 12 may be also provided for a top heating element and/or further heating elements of the oven cavity 10.

List of reference numerals

[0041]

10	oven cavity
12	protection box
14	cavity flange
16	top wall
18	rear wall
20	side wall
22	bottom wall
24	flange section
26	lug element
28	slot
30	lamellar bar
32	barbed hook
34	inner appendix
36	outer appendix
38	T-shaped appendix
40	angled appendix

Claims

1. An oven cavity (10) for a cooking oven, which oven cavity (10) includes:

- at least one bottom heating element arranged or arrangable below a bottom wall (22) of the oven cavity (10),
- a protection box (12) for the bottom heating element attached or attachable at the bottom wall (22) of the oven cavity (10), and
- a cavity flange (14) enclosing at least partially a front opening of the oven cavity (10), wherein a front portion of the protection box (12) is inserted in or insertable into the cavity flange (14), and a rear portion of the protection box (12) comprises at least one fastening element (26) connected or connectable to a rear wall (18) and/or a bottom wall (22) of the oven cavity (10),

characterized in that

a first and a second angled appendix (40) are arranged at the front portion of the protection box (12), wherein said angled appendices (40) are engageable with at least one corresponding element (38) of the cavity flange (14) and/or the oven cavity (10), wherein the first and the second angled appendices (40) correspond with a T-shaped appendix (38) at the cavity flange (14) and the rear portion of the protection box (12) comprises at least one lug element (26) connected or connectable to a corresponding slot (28) at the rear wall (18) and/or at the bottom wall (22) of the oven cavity (10).

2. The oven cavity according to claim 1, **characterized in that** the cavity flange (14) has a U-shaped profile, wherein an open side of said U-shaped profile is directed to a rear side of the oven cavity (10).
3. The oven cavity according to claim 1 or 2, **characterized in that** a flange section (24) is formed at the front portion of the protection box (12), wherein said flange section (24) is inserted in or insertable into the cavity flange (14) of the oven cavity (10).
4. The oven cavity according to any one of the preceding claims, **characterized in that** at least one resilient deformable appendix (34, 36) is formed at the front portion of the protection box (12), wherein said resilient deformable element (34, 36) is inserted in or insertable into the cavity flange (14).
5. The oven cavity according to claim 4, **characterized in that** at least one resilient deformable appendix (34) is

tongue-shaped and directed forward.

6. The oven cavity according to claim 4 or 5,
characterized in that
at least one resilient deformable appendix (36) has
the form of a ring section. 5
7. The oven cavity according to claim 5 and 6,
characterized in that
at least one tongue-shaped appendix (34) is en- 10
closed by the appendix (36) with the form of the ring
section.
8. The oven cavity according to claim 1,
characterized in that 15
the slot (28) is formed in a lamellar bar (30) arranged
at the rear wall (18) and/or at the bottom wall (22) of
the oven cavity (10).
9. The oven cavity according to claim 1 or 8, 20
characterized in that
the lug element (26) comprises at least one barbed
hook (32).
10. A method for assembling a protection box (12) for a 25
bottom heating element to a bottom wall (22) of an
oven cavity (10) for a cooking oven according to one
of the claims 1-9, which method comprises the steps
of: 30
 - inserting a front portion of the protection box
(12) into a cavity flange (14) of the oven cavity
(10), comprising engaging two angled appendi- 35
ces (40) arranged at the front portion of the pro-
tection box (12) with at least one corresponding
element (38) of the cavity flange (14) and/or the
oven cavity (10), said two angled appendices
(40) corresponding with a T-shaped appendix
(38) at the cavity flange (14), and 40
 - connecting at least one fastening element (26) 45
at a rear portion of the protection box (12) to a
rear wall (18) and/or a bottom wall (22) of the
oven cavity (10), wherein the rear portion of the
protection box (12) comprises at least one lug
element (26) connected or connectable to a cor-
responding slot (28) at the rear wall (18) and/or
at the bottom wall (22) of the oven cavity (10).

Patentansprüche 50

1. Ofeninnenraum (10) für einen Kochherd, wobei der
Ofeninnenraum (10) einschließt: 55
 - mindestens ein unteres Heizelement, das un-
terhalb einer unteren Wand (22) des Ofeninnen-
raums (10) angeordnet ist oder angeordnet wer-
den kann,

- eine Schutzbox (12) für das untere Heizele-
ment, welche an der unteren Wand (22) des Ofen-
innenraums (10) angebracht ist oder ange-
bracht werden kann, und
- einen Innenraumflansch (14), der eine vordere
Öffnung des Ofeninnenraums (10) mindestens
teilweise umschließt, wobei ein vorderer Ab-
schnitt der Schutzbox (12) in den Innenraum-
flansch (14) eingesetzt ist oder eingesetzt wer-
den kann, und ein hinterer Abschnitt der Schutz-
box (12) mindestens ein Befestigungselement
(26) umfasst, das mit einer hinteren Wand (18)
und/oder einer unteren Wand (22) des Ofenin-
nenraums (10) verbunden ist oder verbunden
werden kann,

dadurch gekennzeichnet, dass

ein erster und ein zweiter abgewinkelter Anhang (40)
an dem vorderen Abschnitt der Schutzbox (12) an-
geordnet sind, wobei die abgewinkelten Anhänge
(40) mit mindestens einem entsprechenden Element
(38) des Innenraumflansches (14) und/oder des Ofen-
innenraums (10) in Eingriff bringbar sind, wobei der
erste und der zweite gewinkelte Anhang (40) einem
T-förmigen Anhang (38) an dem Innenraumflansch
(14) entsprechen, und der hintere Abschnitt der
Schutzbox (12) mindestens ein Laschenelement
(26) umfasst, das mit einem entsprechenden Schlitz
(28) an der hinteren Wand (18) und/oder der unteren
Wand (22) des Ofeninnenraums (10) verbunden ist
oder verbunden werden kann.

2. Ofeninnenraum nach Anspruch 1,
dadurch gekennzeichnet, dass
der Innenraumflansch (14) ein U-förmiges Profil auf-
weist, wobei eine offene Seite des U-förmigen Profils
auf eine hintere Seite des Ofeninnenraums (10) ge-
richtet ist.
3. Ofeninnenraum nach Anspruch 1 oder 2,
dadurch gekennzeichnet, dass
ein Flanschstück (24) an dem vorderen Abschnitt
der Schutzbox (12) gebildet ist, wobei das Flansch-
stück (24) in den Innenraumflansch (14) des Ofenin-
nenraums (10) eingeführt ist oder eingeführt werden
kann.
4. Ofeninnenraum nach einem der vorhergehenden
Ansprüche,
dadurch gekennzeichnet, dass
mindestens ein federnder verformbarer Anhang (34,
36) an dem vorderen Abschnitt der Schutzbox (12)
gebildet ist, wobei das federnde verformbare Ele-
ment (34, 36) in den Innenraumflansch (14) einge-
führt wird oder eingeführt werden kann.
5. Ofeninnenraum nach Anspruch 4,
dadurch gekennzeichnet, dass

mindestens ein federnder verformbarer Anhang (34) zungenförmig ist und nach vorne gerichtet ist.

6. Ofeninnenraum nach Anspruch 4 oder 5,
dadurch gekennzeichnet, dass
mindestens ein federnder verformbarer Anhang (36) die Form eines Ringstücks aufweist. 5
7. Ofeninnenraum nach Anspruch 5 und 6,
dadurch gekennzeichnet, dass
mindestens ein zungenförmiger Anhang (34) von dem Anhang (36) mit der Form des Ringstücks umschlossen wird. 10
8. Ofeninnenraum nach Anspruch 1,
dadurch gekennzeichnet, dass
der Schlitz (28) in einer Lamellenleiste (30) gebildet ist, die in der hinteren Wand (18) und/oder der unteren Wand (22) des Ofeninnenraums (10) angeordnet ist. 15
20
9. Ofeninnenraum nach Anspruch 1 oder 8,
dadurch gekennzeichnet, dass
das Laschenelement (26) mindestens einen Widerhaken (32) umfasst. 25
10. Verfahren zum Montieren einer Schutzbox (12) für ein unteres Heizelement an einer unteren Wand (22) eines Ofeninnenraums (10) für einen Kochherd nach einem der Ansprüche 1 bis 9, wobei das Verfahren die Schritte umfasst: 30
 - Einsetzen eines vorderen Abschnitts der Schutzbox (12) in einen Innenraumflansch (14) des Ofeninnenraums (10), umfassend In-Ein-griff-bringen von zwei abgewinkelten Anhängen (40), die an dem vorderen Abschnitt der Schutzbox (12) angeordnet sind, mit mindestens einem entsprechenden Element (38) des Innenraumflansches (14) und/oder des Ofeninnenraums (10), wobei die beiden abgewinkelten Anhänge (40) einem T-förmigen Anhang (38) an dem Innenraumflansch (14) entsprechen, und 35
 - Verbinden mindestens eines Befestigungselements (26) an einem hinteren Abschnitt der Schutzbox (12) mit einer hinteren Wand (18) und/oder einer unteren Wand (22) des Ofeninnenraums (10), wobei der hintere Abschnitt der Schutzbox (12) mindestens ein Laschenelement (26) umfasst, das mit einem entsprechenden Schlitz (28) an der hinteren Wand (18) und/oder an der unteren Wand (22) des Ofenhohlraums (10) verbunden ist oder verbunden werden kann. 40
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Revendications

1. Cavité de four (10) pour un four de cuisson, laquelle cavité de four (10) inclut :

- au moins un élément chauffant de fond, agencé ou agencable en dessous d'une paroi de fond (22) de la cavité de four (10),
- une boîte de protection (12) pour l'élément chauffant de fond, attachée ou attachable sur la paroi de fond (22) de la cavité de four (10), et
- une bride de cavité (14) entourant au moins partiellement une ouverture avant de la cavité de four (10), dans laquelle une portion avant de la boîte de protection (12) est insérée dans ou insérable dans la bride de cavité (14), et une portion arrière de la boîte de protection (12) comprend au moins un élément de fixation (26) raccordé ou raccordable à une paroi arrière (18) et/ou une paroi de fond (22) de la cavité de four (10),

caractérisée en ce que

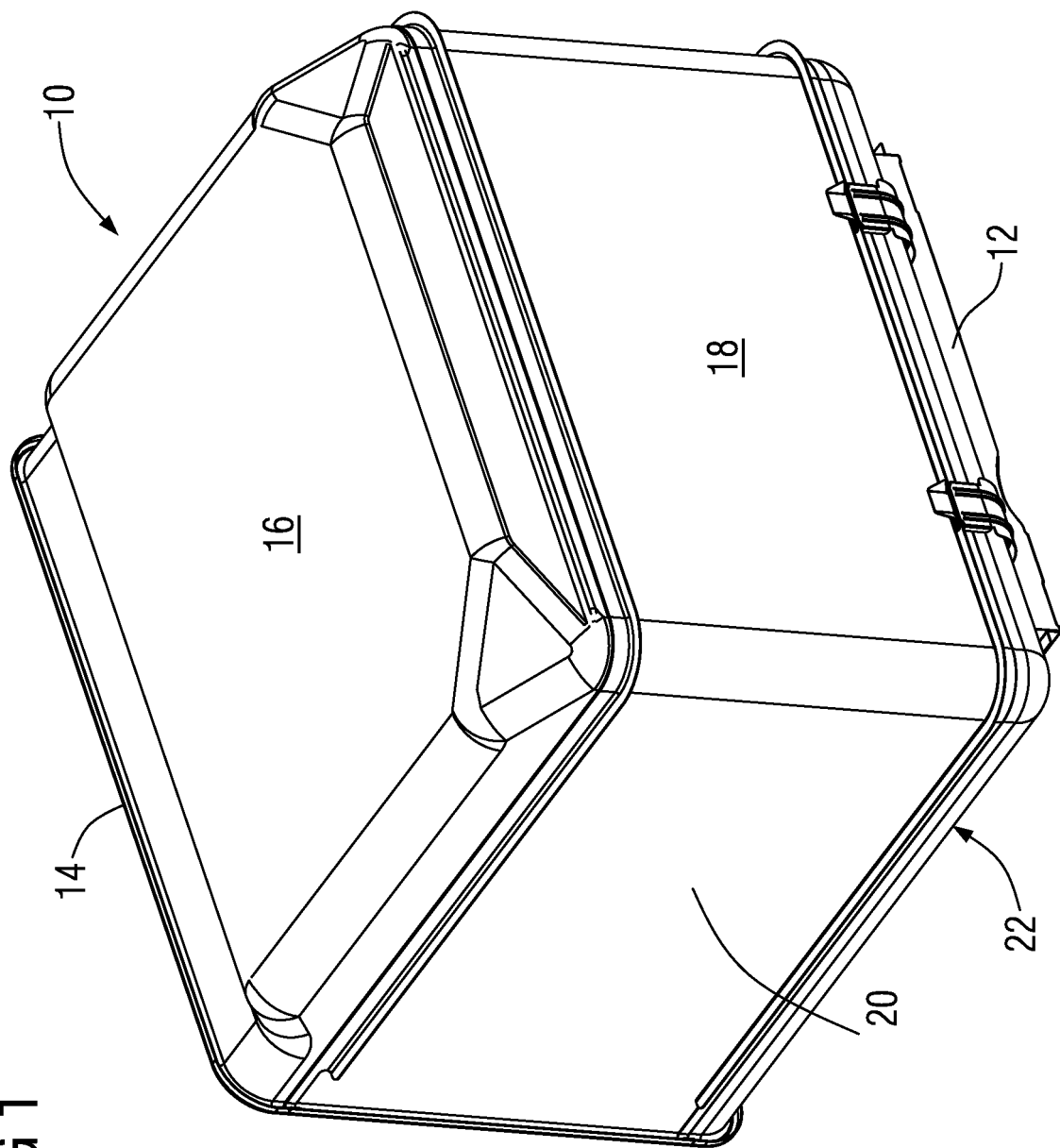
un premier et un second appendice incliné (40) sont agencés sur la portion avant de la boîte de protection (12), dans laquelle lesdits appendices inclinés (40) peuvent entrer en prise avec au moins un élément correspondant (38) de la bride de cavité (14) et/ou de la cavité de four (10), dans laquelle le premier et le second appendices inclinés (40) correspondent à un appendice en forme de T (38) sur la bride de cavité (14) et la portion arrière de la boîte de protection (12) comprend au moins un élément patte de fixation (26) raccordé ou raccordable à une fente correspondante (28) sur la paroi arrière (18) et/ou sur la paroi de fond (22) de la cavité de four (10).

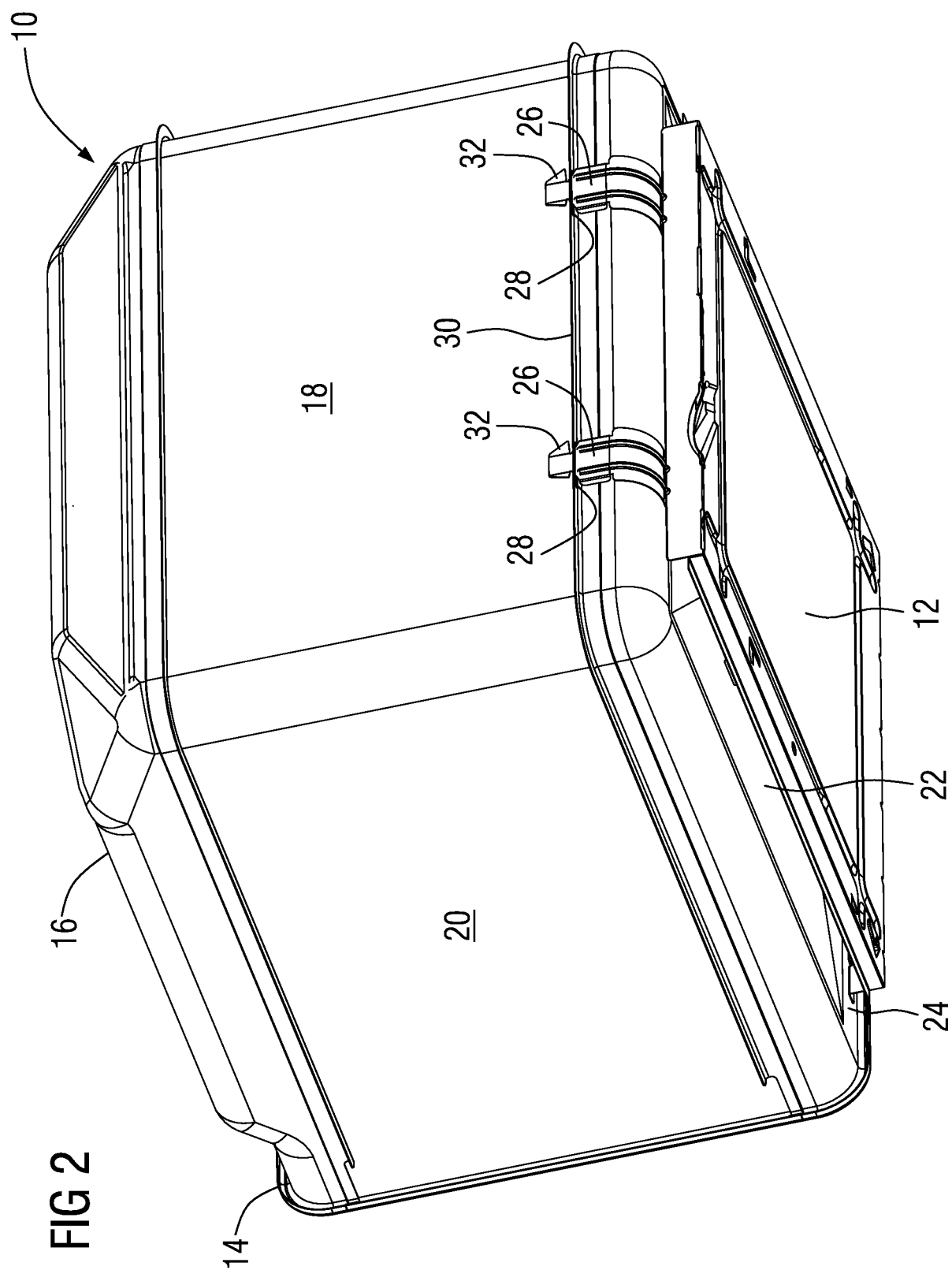
2. Cavité de four selon la revendication 1,
caractérisée en ce que
la bride de cavité (14) possède un profil en forme de U, dans laquelle un côté ouvert dudit profil en forme de U est dirigé vers un côté arrière de la cavité de four (10).
3. Cavité de four selon la revendication 1 ou 2,
caractérisée en ce que
une section de bride (24) est formée au niveau de la portion avant de la boîte de protection (12), dans laquelle ladite section de bride (24) est insérée dans ou insérable dans la bride de cavité (14) de la cavité de four (10).
4. Cavité de four selon l'une quelconque des revendications précédentes,
caractérisée en ce que
au moins un appendice déformable résilient (34, 36) est formé sur la portion avant de la boîte de protection (12), dans laquelle ledit élément déformable ré-

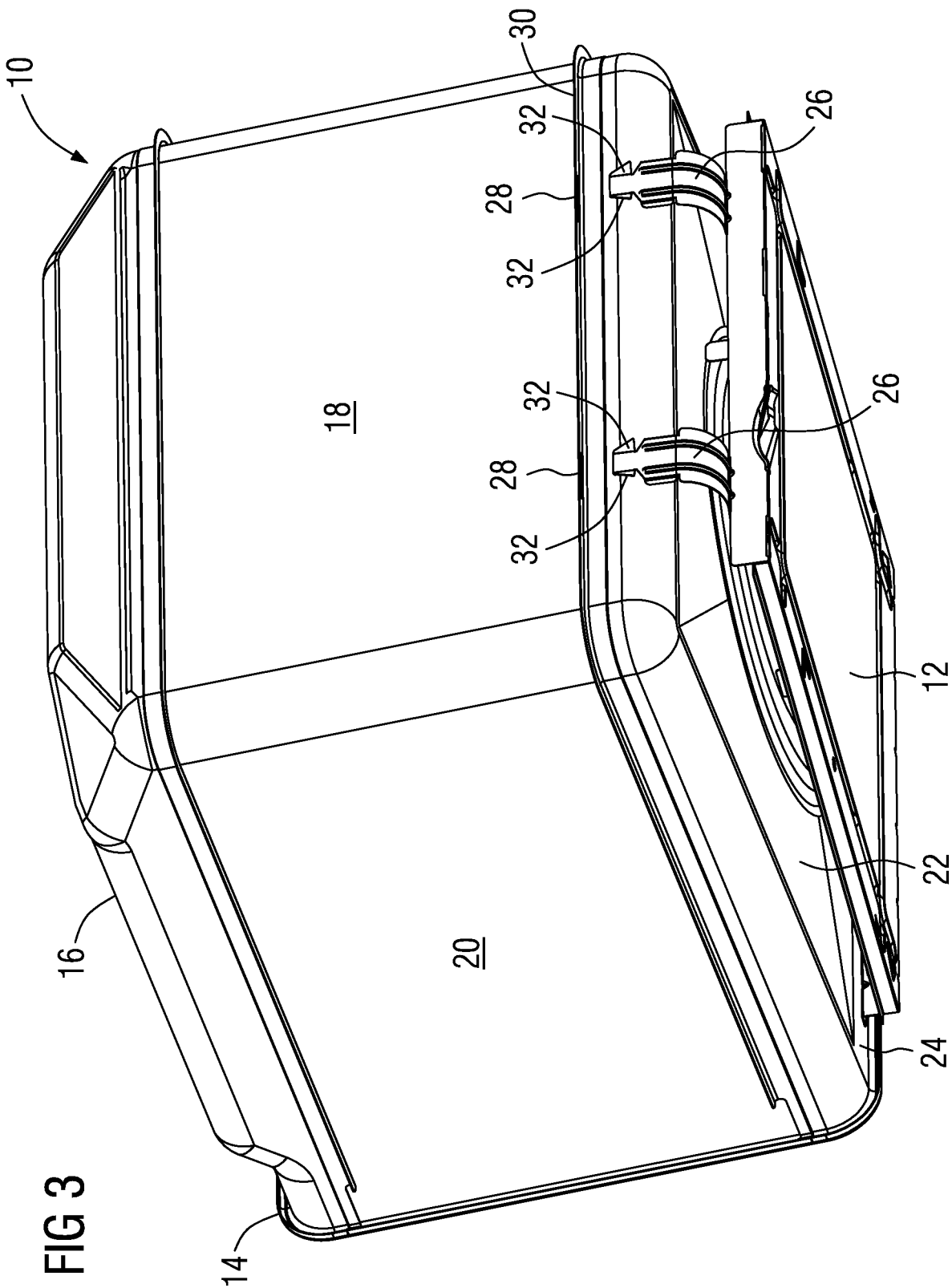
silient (34, 36) est inséré dans ou insérable dans la bride de cavité (14).

5. Cavité de four selon la revendication 4,
caractérisée en ce que 5
au moins un appendice déformable résilient (34) présente une forme de languette et est dirigé vers l'avant.
6. Cavité de four selon la revendication 4 ou 5, 10
caractérisée en ce que
au moins un appendice déformable résilient (36) présente la forme d'une section annulaire.
7. Cavité de four selon la revendication 5 et 6, 15
caractérisée en ce que
au moins un appendice en forme de languette (34) est entouré par l'appendice (36) avec la forme de la section annulaire. 20
8. Cavité de four selon la revendication 1,
caractérisée en ce que
la fente (28) est formée dans une barre lamellaire (30) agencée sur la paroi arrière (18) et/ou sur la paroi de fond (22) de la cavité de four (10). 25
9. Cavité de four selon la revendication 1 ou 8,
caractérisée en ce que
l'élément patte de fixation (26) comprend au moins un crochet barbelé (32). 30
10. Procédé pour assembler une boîte de protection (12) pour un élément chauffant de fond à une paroi de fond (22) d'une cavité de four (10) pour un four de cuisson selon l'une des revendications 1 à 9, 35
lequel procédé comprend les étapes de :
 - l'insertion d'une portion avant de la boîte de protection (12) dans une bride de cavité (14) de la cavité de four (10), comprenant la mise en 40
prise de deux appendices inclinés (40) agencés sur la portion avant de la boîte de protection (12) avec au moins un élément correspondant (38) de la bride de cavité (14) et/ou de la cavité de four (10), lesdits deux appendices inclinés (40) 45
correspondant à un appendice en forme de T (38) sur la bride de cavité (14), et
 - le raccordement d'au moins un élément de fixation (26) sur une portion arrière de la boîte de protection (12) à une paroi arrière (18) et/ou une 50
paroi de fond (22) de la cavité de four (10), dans laquelle la portion arrière de la boîte de protection (12) comprend au moins un élément patte de fixation (26) raccordé ou raccordable à une 55
fente correspondante (28) sur la paroi arrière (18) et/ou sur la paroi de fond (22) de la cavité de four (10).

FIG 1







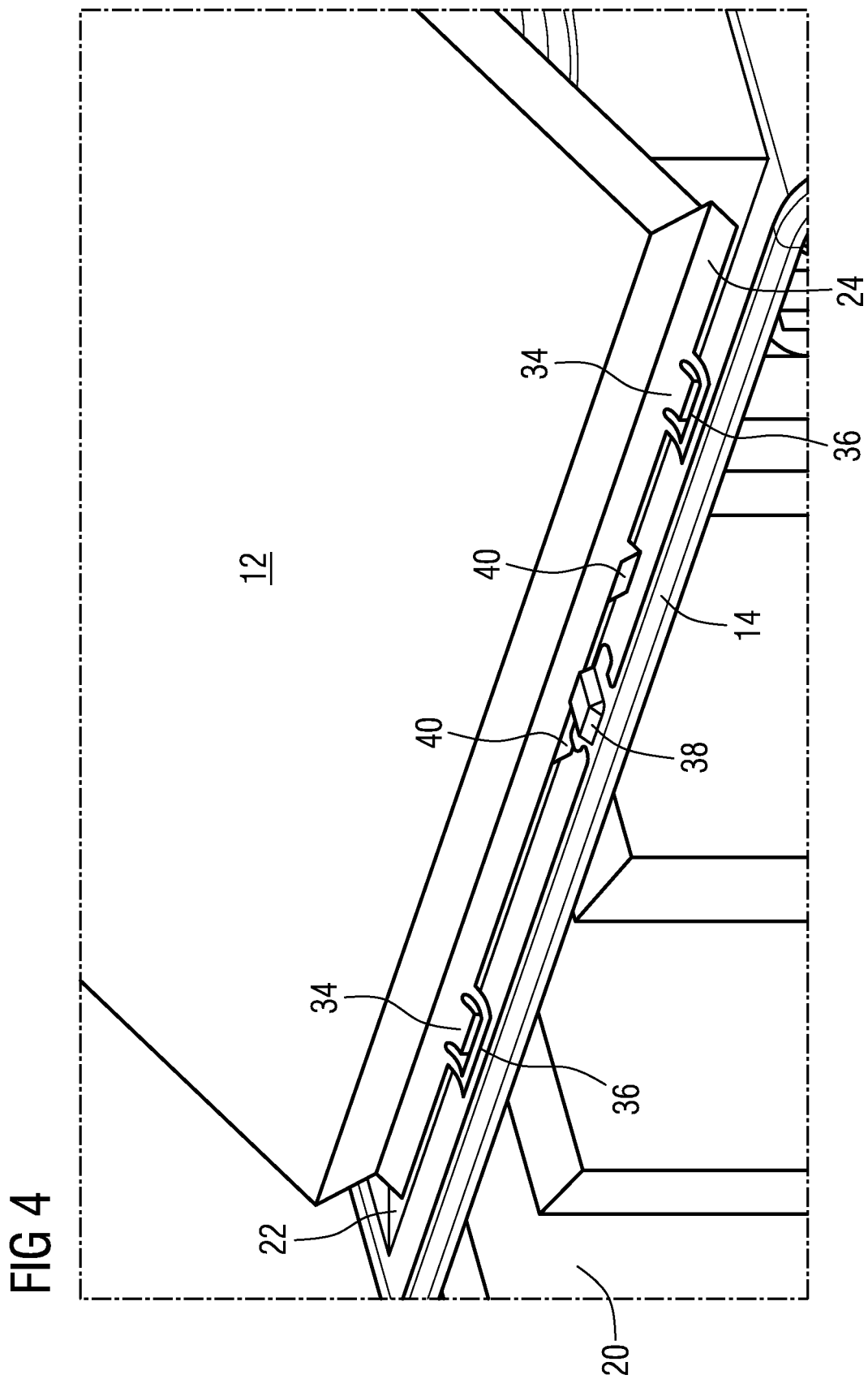


FIG 5

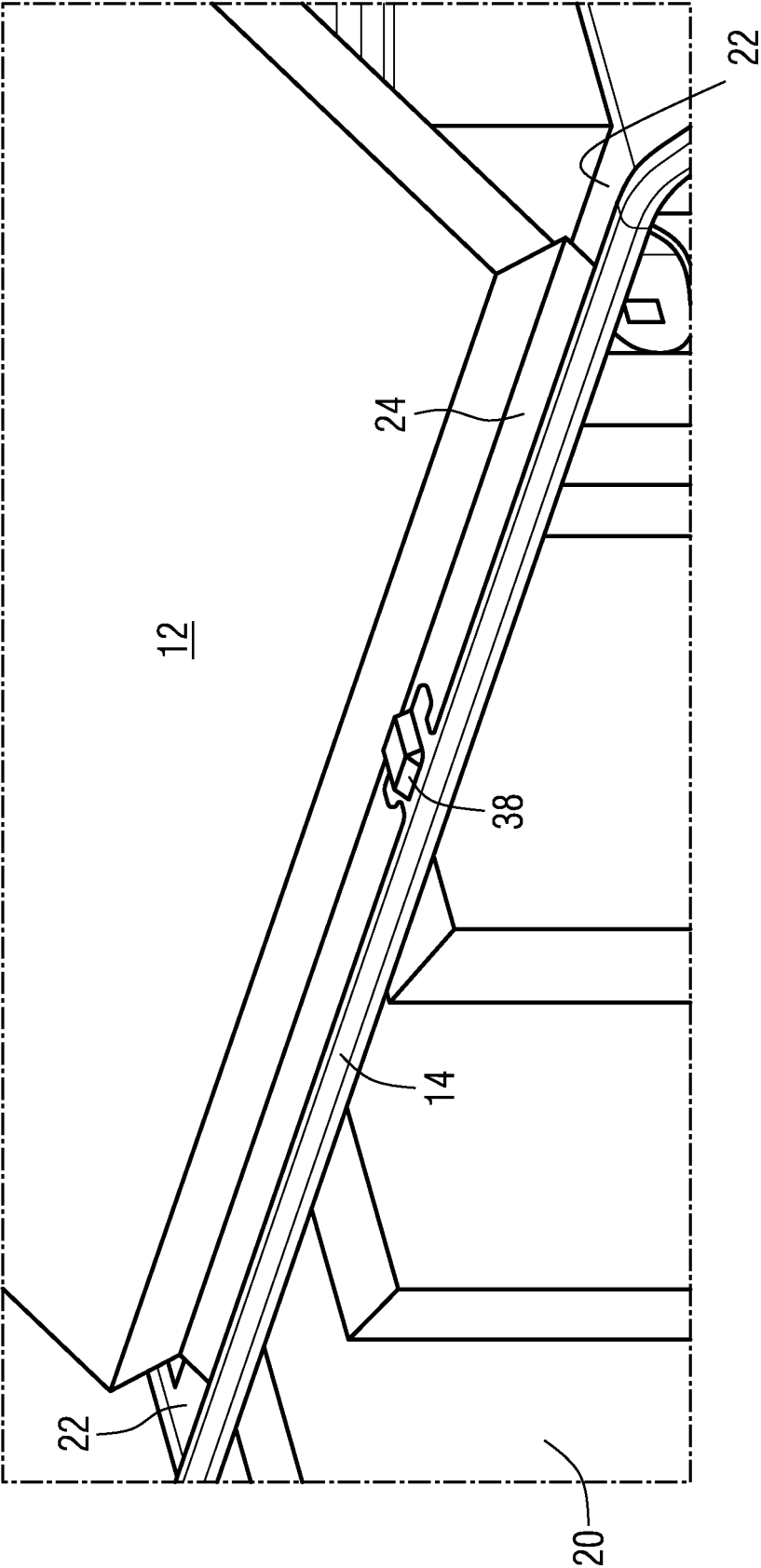
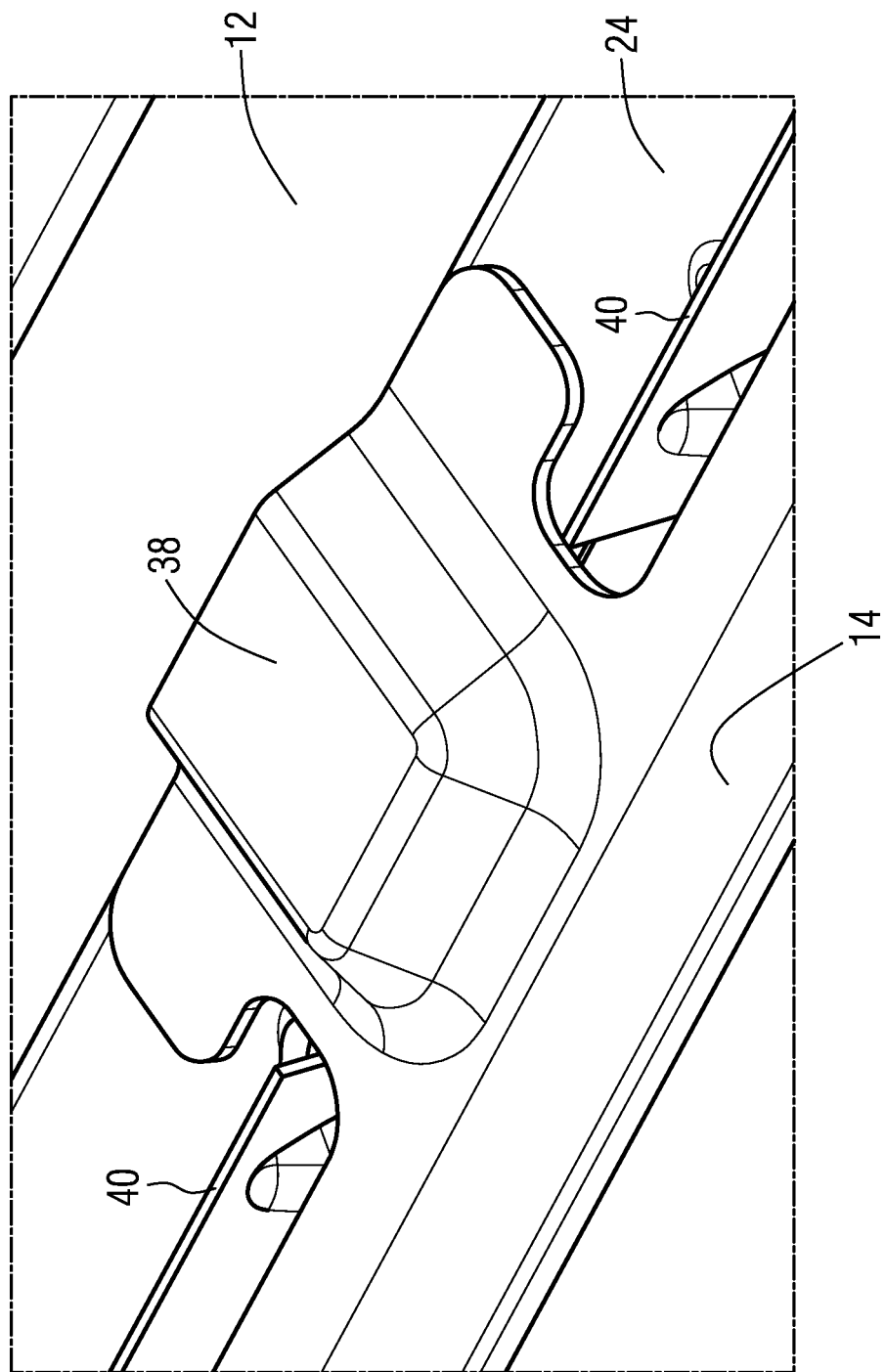


FIG 6



REFERENCES CITED IN THE DESCRIPTION

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