



(11) **EP 1 583 455 B1**

(12) **EUROPEAN PATENT SPECIFICATION**

(45) Date of publication and mention
of the grant of the patent:
08.10.2008 Bulletin 2008/41

(21) Application number: **03796252.9**

(22) Date of filing: **19.12.2003**

(51) Int Cl.:
A47L 15/42 ^(2006.01)

(86) International application number:
PCT/TR2003/000098

(87) International publication number:
WO 2004/058039 (15.07.2004 Gazette 2004/29)

(54) **DISHWASHER**
GESCHIRRSPÜLMASCHINE
LAVE-VAISSELLE

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IT LI LU MC NL PT RO SE SI SK TR

(30) Priority: **31.12.2002 TR 200202795**

(43) Date of publication of application:
12.10.2005 Bulletin 2005/41

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- **PATENT ABSTRACTS OF JAPAN vol. 2000, no.**
24, 11 May 2001 (2001-05-11) & JP 2001 204674 A
(RINNAI CORP), 31 July 2001 (2001-07-31)

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Description

[0001] This invention relates to a dishwasher which is easy to use by means of more than one cover and basket.

[0002] In the dishwashers, there is a cover attached to the body by a hinge from the lower part generally covering the washing tub. When the cover is opened, it rotates around the hinge and changes from vertical position into horizontal position. After the cover is opened, the user pulls the baskets out for loading and removing and, closes the cover accordingly. In this application, the user who wants to load even a single object e.g. in the lower basket, opens the cover to a horizontal position, pulls out the lower basket, loads the object, pushes the basket back and closes the cover respectively. These steps are not ergonomic for the user. In the state of art, various works have been carried out to make the covers of the dishwashers more ergonomic.

[0003] In the prior art, European Patent EP 807400 describes a dishwasher having more than one drawer type covers each covering different washing tubs. Different washing components such as pump and spray arm operate for the tubs of the dishwashers and tubs may be used independent from each other. Multiple use of the same component and formation of separate compartments result in the efficient use of only a smaller part of the washing tub.

[0004] In the state of art, United States Patent US6260565 defines a dishwasher having two covers one in drawer type and the other with hinges covering two separate washing tubs. These two separate washing tubs can be used independently from each other.

[0005] In the prior art, European Patent Application EP 1189534 discloses a dishwasher having a cover opening by sliding like a drawer. The lower basket of the dishwasher is pulled out with the cover opened by sliding. The other baskets of the dishwasher are only reached by a pulling after the cover is opened.

[0006] The object of this invention is to provide a dishwasher having covers which can be opened and closed to enable the user load and remove the objects easily in the baskets of the dishwasher. This object is achieved by a dishwasher as defined in the appended independent claim 1.

[0007] The dishwasher realized in order to attain above mentioned objects of the present invention has been illustrated in the attached drawings, wherein;

Figure 1 is a schematic view of a dishwasher,

Figure 2 is schematic view of a dishwasher wherein the upper basket is pulled outside.

Figure 3 is a schematic view of a dishwasher wherein the lower basket is pulled outside.

Figure 4 is a schematic view of a dishwasher comprising a drip tray under both the upper and the lower baskets.

Figure 5 is a schematic view of a dishwasher comprising a drip tray under both the upper and the lower

basket wherein the upper basket is pulled outside.

Figure 6 is a schematic view of a dishwasher having a lower cover so high to cover the base.

Figure 7 is a schematic view of a dishwasher having a lower cover so high to cover the base wherein the lower basket is pulled outside.

Figure 8 is a schematic view of a dishwasher having an upper basket with adjustable height.

Figure 9 is a schematic view of a dishwasher having an upper basket with adjustable height and lower cover moving in a linear direction.

Figure 10 is a schematic view of a dishwasher having an upper basket with adjustable height and lower cover moving in a circular direction.

[0008] The components shown in the figures have been enumerated as below;

1. Dishwasher
2. Washing tub
3. Sump
5. Lower spray arm
6. Upper spray arm
7. Water distribution line
8. Body
12. Lower basket
13. Upper basket
15. Base
101. Lower cover
102. Upper cover
103. Dragger
104. Spraying member
105. Locking mechanism
106. Opening
108. Drip tray
201. Additional drip tray
301. Height Adjustment Mechanism
302. Connection mechanism

[0009] The dishwasher (1) which is the subject of this invention comprises a body (8), a washing tub (2) in the body (8), a sump (3) where the water is collected, under the washing tub (2), upper and lower spray arms (5 and 6) directing the water to the objects, a circulation pump directing the water from the sump (3) to the upper and lower spray arms (5 and 6), a water distribution line (7) connected to the circulation pump, a discharge pump used to discharge the water collected in the sump (3) at the end of the washing cycle out of the dishwasher (1), a heater used to heat the washing water and the objects therein, a water inlet valve receiving the washing water, a base (15) and at least two baskets (12 and 13) where the objects are loaded.

[0010] The dishwasher (1) comprises at least two covers (101 and 102) attached to the baskets (12 and 13) covering the washing tub (2). When the objects are loaded in the dishwasher (1), covers (101 and 102) and baskets (12 and 13) attached to them are pulled by sliding

out of the body (8) and covers (101 and 102) are closed after the loading step is completed.

[0011] Furthermore, the dishwasher (1) comprises a drip tray (108) under the lower basket (12) which is connected with the cover (101) attached to the basket (12) and moves together, preventing the dripping of the water from the objects on the outer environment when the baskets (12 and 13) are pulled out of the body. The drip tray has the required dimensions for preventing the dripping, for example it has almost the same size with the lower basket (12) and the parts of the baskets (12 and 13) that are pulled out. When the cover (101) is open, the water dripping from the objects in the baskets (12 and 13) slides over the drip tray (108) to the sump (3). When the cover (101) is closed, the washing water slides through an opening (106) between the drip tray (108) and the washing tub (2) to the sump (3). Sump (3) is intentionally mounted under a very close place to the opening (106) to transfer the washing water swiftly and prevent its collection.

[0012] Additionally the dishwasher (1) comprises one or more spraying member (104) under the drip tray (108) cleaning the dirt collected under the drip tray (108) and inside walls of the sump (3). Drip tray (108) forms a set between the spray arms (5 and 6) and sump (3) during the washing cycle, hence the dirt inside walls of the sump (3) and under the drip tray (108) is not cleaned as desired. The accumulation of the dirt is therefore prevented by means of the spraying member (104) connected to the water distribution line (7).

[0013] The dishwasher comprises a dragger (103) under the cover (102) connected to the upper basket (13), opening the upper cover (102) at the same amount with the lower cover (101) when it is opened. Since no structure is used to prevent the dripping of water from the objects when the upper basket (13) is pulled out, the lower cover (101) is attached to the dragger (103) when the upper door (102) is opened and both covers (101 and 102) are opened together at the same amount. Drip tray (108) can function for both baskets (12 and 13) in this way.

[0014] The dishwasher (1) further comprises a locking mechanism (105) providing the independent movement of the lower cover (101) from the lower basket (12) when opened together with the upper cover (102) when the upper cover (102) is opened and the joint movement of the lower cover (101) with the lower basket (12) when the lower cover (101) is opened. When the objects are to be loaded to only the upper basket (13), as both the upper cover (102) and the lower cover (101) are opened together by the dragger (103) and as it would not be easy for the user to pull entirely or partially full lower basket (12) out of the body (8), by means of the locking mechanism (105), the lower basket (12) is pulled only when the lower cover (101) is opened. When the user pulls the cover handle on the upper cover (102) to pull out the upper basket (13), locking mechanism (105) locks the upper cover (102) with the lower cover (101) and sepa-

rates the lower cover (101) from the lower basket (12). When the user prefers to use the lower basket (12), the handle on the lower cover (101) is pulled and the lower basket (12) is pulled out with the lower cover (101) as the locking mechanism is not activated.

[0015] When the dishwasher (1) is used, the user loads the objects into the baskets (12 and 13) by opening one of the lower and upper covers (101 and 102).

[0016] In another embodiment of the invention, dishwasher (1) comprises a height adjustment mechanism (301) providing the adjustment of the height of upper basket (13) for example in two positions like low and high and a connection mechanism (301) changing the position of the connection point of the upper basket (13) with the upper cover (102) when the position of the upper basket (13) is changed. As the upper basket (13) can be used in more than one position, when the upper basket (13) is in a high position, the upper cover (10) is at sufficient height (h_1) to prevent being hit by the object (h_2) at maximum height which can be placed in the lower basket (12) when the basket (12) and the lower cover (101) are pulled out of the body (8). In this embodiment the height (h_1) of the upper cover (102) may be shorter than that of the lower cover (101).

[0017] In another embodiment of the invention, the dishwasher (1) has the lower cover (101) in a form that when the upper basket (13) is pulled out the lower cover (101) will not affect the movement of the upper basket (13) when the upper basket (13) is adjusted to low position by means of the height adjustment mechanism (301). The lower cover (101) moves in linear or circular direction by the way of preferably a spring-based movement mechanism placed in the upper part. When the lower cover (101) moves in a circular direction, it moves forward and backward. When the lower cover (101) moves in a linear direction, it moves towards inside and outside.

[0018] In another embodiment of the invention, the dishwasher (1) comprises an additional drip tray (201) under the upper basket (13) connected to the cover (102) attached to the upper basket (13) preventing the water of the objects in the upper basket (13) from dripping on the floor when the upper basket (13) is pulled out of the body (8). In this embodiment, as there is an additional drip tray (201) holding the water dripping from the objects in the upper basket (13), the lower cover (102) does not need to be opened with the upper cover (101). Accordingly, there is no dragger (103) and locking mechanism (105) in this embodiment.

[0019] In another embodiment of the invention, the lower cover (101) is formed in a suitable size to prevent the base (15) from being seen. Therefore when desired, a more decorative appearance may be obtained by placing the dishwasher (1) in the kitchen leaving under a high base.

[0020] Although the dishwasher (1) comprises only one washing tub (2) and has the same design and placement of the components as in the conventional machines, the covers (101 and 102) and the baskets (12 and 13)

attached to them provide an easy use for the loading and discharge of the objects by sliding and opening with one movement.

Claims

1. A dishwasher (1) comprising a body (8), a washing tub (2) in the body (8), a sump (3) where the water is collected, under the washing tub (2), a water distribution line (7) and at least two baskets (12 and 13) in which the objects are loaded, **characterized by** at least two covers (101 and 102) which are attached to the baskets (12 and 13), opened by a sliding movement and closing the washing tub (2), an a drip tray (108) which prevents the dripping of the water from the objects in the baskets (12 and 13) on the floor when the baskets (12 and 13) are pulled out of the body, which is under the lower basket (12) and which is connected to and moves with the cover (101) which is attached to the lower basket (12).
2. A dishwasher (1) as defined in claim 1 **characterized by** the drip tray (108) in required dimensions to prevent the dripping from the baskets (12 and 13), directing the water dripped from the objects to the sump (3) and having an opening (106) with the wall of the washing tub (2) when the cover (101) is closed.
3. A dishwasher (1) as defined in claim 2 **characterized in that** the sump (3) is placed at a position close to or under the opening (106) to provide the transfer of the washing water coming from the drip tray (108) and prevention of its accumulation.
4. A dishwasher (1) as defined in any of the previous claims **characterized by** one or more spraying members (104) under the drip tray (108), connected to the water distribution line (7) and cleaning the dirt accumulated in the side walls of the sump (3) and under the drip tray (108).
5. A dishwasher (1) as defined in any of the previous claims **characterized by** a dragger (103) under the cover (102) connected to the upper basket (13), attached to the lower cover (101) when the upper cover (102) is opened as no structure is used to prevent the water dripping from the objects when the upper basket (13) is pulled out, and providing the opening of two covers (101 and 102) together and serving of the drip tray (108) for both baskets (12 and 13).
6. A dishwasher (1) as defined in any of the previous claims **characterized by** a locking mechanism (105) providing the independent movement of the lower cover (101) when opened together with the upper cover (102) from the lower basket (12) and the joint movement of the lower cover (101) with the lower basket (12) when the lowercover (101) is opened.
7. A dishwasher (1) as defined in any of the previous claims **characterized in that** the upper basket (13) can stand in two different positions like low and high and be adjusted with respect to the needs of the users and, the upper cover (102) having a height (h_1) which can prevent being hit by the object (h_2) at maximum height which can be placed in the lower basket (12) during the high position of the upper basket (13) when the basket (12) and the lower cover (101) are pulled out of the body (8) as the upper basket (13) can be used in more than one position.
8. A dishwasher (1) as defined in claim 6 **characterized by** a height adjustment mechanism (301) adjusting the height of the upper basket (13) with respect to the needs of the user in two positions like low and high, and a connection mechanism (302) changing the position of the connection point of the upper cover (102) with the upper basket (13) when the position of the upper basket (13) is changed.
9. A dishwasher (1) as defined in any of the claims 1-4, **characterized by** an additional drip tray (201) under the upper basket (13), connected to the cover (102) which is attached to the upper basket (13) and moves together, preventing the dripping of the water from the objects in the upper basket (13) on the floor when the upper basket (13) is pulled out of the body (8).
10. A dishwasher (1) as defined in any of the previous claims **characterized by** the lower cover (101) having the sizes enough to prevent the base (15) to be seen and obtain a more decorative appearance.
11. A dishwasher (1) as defined in any of the claims 1 to 6 **characterized by** a height adjustment mechanism (301) adjusting the height of the upper basket (13) with respect to the needs of the user in two positions like low and high, a connection mechanism (302) changing the position of the connection point of the upper cover (102) with the upper basket (13) when the position of the upper basket (13) is changed, and a lower cover (101) in a form not to prevent the movement of the upper basket (13) by being pushed by the upper basket (13) when it is pulled out.
12. A dishwasher (1) as defined in claim 11 **characterized in that** the lower cover (101) moves inside and outside in a linear direction due to a movement mechanism placed in the upper part.
13. A dishwasher (1) as defined in claim 11 **characterized in that** the lower cover (101) moves forward and backward in a circular direction due to a movement mechanism placed in the upper part.

Patentansprüche

1. Geschirrspüler (1), umfassend einen Grundkörper (8), einen Spülbehälter (2) in dem Grundkörper (8), eine Sammelwanne (3), in der das Wasser gesammelt wird, eine Wasserverteilungsleitung (7), und wenigstens zwei Körbe (12 und 13), in die die Gegenstände geladen werden, **gekennzeichnet durch** wenigstens zwei Abdeckungen (101 und 102), die an den Körben, welche **durch** eine Schiebewegung geöffnet werden, angebracht sind, und die den Spülbehälter (2) schließen, und eine Tropfwanne (108), die verhindert, dass, wenn die Körbe (12 und 13) aus dem Grundkörper herausgezogen werden, Wasser von den Gegenständen in den Körben (12 und 13) auf den Boden tropft, und die sich unter dem unteren Korb (12) befindet, und die mit der Abdeckung (101) verbunden ist, welche an dem unteren Korb (12) angebracht ist, und sich mit dieser bewegt.
2. Geschirrspüler (1) nach Anspruch 1, **dadurch gekennzeichnet, dass** die Tropfwanne (108) die erforderlichen Abmessungen aufweist, um zu verhindern, dass ein Tropfen von den Körben (12 und 13) stattfindet, und die das Wasser, das von den Gegenständen getropft ist, zur Sammelwanne (3) lenkt, und die eine Öffnung (106) mit der Wand des Spülbehälters (2) aufweist, wenn die Abdeckung (101) geschlossen ist.
3. Geschirrspüler (1) nach Anspruch 2, **dadurch gekennzeichnet, dass** die Sammelwanne (3) an einer Position in der Nähe der oder unter der Öffnung (106) angeordnet ist, um das Weiterleiten von Wasser zu ermöglichen, das von der Tropfwanne (108) kommt, und seine Ansammlung zu verhindern.
4. Geschirrspüler (1) nach einem der vorangehenden Ansprüche, **gekennzeichnet durch** ein oder mehrere Sprühelemente (104) unter der Tropfwanne (108), die mit der Wasserverteilungsleitung (7) verbunden sind, und den Schmutz beseitigen, der sich an den Seitenwänden der Sammelwanne (3) und unter der Tropfwanne (108) ansammelt.
5. Geschirrspüler (1) nach einem der vorangehenden Ansprüche, **gekennzeichnet durch** eine Schleppvorrichtung (103) unter der Abdeckung (102), welche mit dem oberen Korb (13) verbunden ist, und die an der unteren Abdeckung (101) angebracht ist, wenn die obere Abdeckung (102) geöffnet ist, da kein Bauteil verwendet wird, das verhindert, dass das Wasser von den Gegenständen tropft, wenn der obere Korb (13) herausgezogen wird, und die das gemeinsame Öffnen der zwei Abdeckungen (101 und 102) vorsieht, und die die Tropfwanne (108) für beide Körbe (12 und 13) bereitstellt.
6. Geschirrspüler (1) nach einem der vorangehenden Ansprüche, **gekennzeichnet durch** einen Arretiermechanismus (105), der vorsieht, dass sich die untere Abdeckung (101) unabhängig von dem unteren Korb (12) bewegt, wenn sie zusammen mit der oberen Abdeckung (102) geöffnet wird, und der vorsieht, dass sich die untere Abdeckung (101) gemeinsam mit dem unteren Korb (12) bewegt, wenn die untere Abdeckung (101) geöffnet wird.
7. Geschirrspüler (1) nach einem der vorangehenden Ansprüche, **dadurch gekennzeichnet, dass** der obere Korb (13) in zwei verschiedenen Positionen angeordnet sein kann, einer niedrigen und einer hohen, und in Anpassung an die Bedürfnisse des Benutzers einstellbar ist, und dass die obere Abdeckung (102) eine Höhe (h_1) aufweist, die verhindern kann, dass sie von dem Gegenstand (h_2) maximaler Höhe, der in dem unteren Korb (12) angeordnet ist, während der obere Korb (13) sich in der hohen Position befindet, getroffen wird, wenn der Korb (12) und die untere Abdeckung (101) aus dem Grundkörper (8) herausgezogen werden, indem der obere Korb (13) in mehr als einer Position benutzbar ist.
8. Geschirrspüler (1) nach Anspruch 6, **gekennzeichnet durch** einen Höheneinstellmechanismus (301), der die Höhe des oberen Korbs (13) in Anpassung an die Bedürfnisse des Benutzers in zwei Positionen, einer niedrigen und einer hohen, einstellt, und **durch** einen Verbindungsmechanismus (302), der die Position des Verbindungspunkts der oberen Abdeckung (102) mit dem oberen Korb (13) verändert, wenn die Position des oberen Korbs (13) geändert wird.
9. Geschirrspüler (1) nach einem der Ansprüche 1 bis 4, **gekennzeichnet durch** eine weitere Tropfwanne (201) unter dem oberen Korb (13), die mit der Abdeckung (102) verbunden ist, welche an dem oberen Korb (13) angebracht ist, und sich zusammen damit bewegt, wodurch verhindert wird, dass das Wasser von Gegenständen im oberen Korb (13) auf den Boden tropft, wenn der obere Korb (13) aus dem Grundkörper (8) herausgezogen wird.
10. Geschirrspüler (1) nach einem der vorangehenden Ansprüche, **dadurch gekennzeichnet, dass** die untere Abdeckung (101) eine Größe aufweist, die ausreichend ist, um zu verhindern, dass die Basis (15) sichtbar ist, und so ein ästhetischeres Erscheinungsbild zu erreichen.
11. Geschirrspüler (1) nach einem der Ansprüche 1 bis 6, **gekennzeichnet durch** einen Höheneinstellmechanismus (301), der die Höhe des oberen Korbs (13) in Anpassung an die Bedürfnisse des Benutzers in zwei Positionen, einer hohen und einer niedrigen,

einstellt, **durch** einen Verbindungsmechanismus (302), der die Position des Verbindungspunkts der oberen Abdeckung (102) mit dem oberen Korb (13) verändert, wenn die Position des oberen Korbs (13) geändert wird, und **durch** eine untere Abdeckung (101), die eine Form aufweist, in der die Bewegung des oberen Korbs (13) nicht behindert wird, indem sie von dem oberen Korb (13) verschoben wird, wenn dieser herausgezogen wird.

12. Geschirrspüler (1) nach Anspruch 11, **dadurch gekennzeichnet, dass** sich die untere Abdeckung (101) mittels eines Bewegungsmechanismus, der im oberen Abschnitt angeordnet ist, in linearer Bewegung hinein und heraus bewegt.

13. Geschirrspüler (1) nach Anspruch 11, **dadurch gekennzeichnet, dass** sich die untere Abdeckung (101) mittels eines Bewegungsmechanismus, der im oberen Abschnitt angeordnet ist, in kreisförmiger Bewegung vor und zurück bewegt.

Revendications

1. Lave-vaisselle (1) comprenant un corps (8), un tube de lavage (2) dans le corps (8), un puisard (3) où l'eau est collectée, sous le tube de lavage (2), une ligne de distribution de l'eau (7) et au moins deux paniers (12 et 13) dans lesquels les objets sont chargés, **caractérisée par** au moins deux couvercles (101 et 102) attachés aux paniers (12 et 13), ouvrables par un mouvement de glissement et fermant le tube de lavage (2), et une cuvette d'égouttage (108) empêchant l'égouttage de l'eau depuis les objets dans les paniers (12 et 13) à l'étage lors que les paniers (12 et 13) sont tirés vers l'extérieur du corps, se trouvant sous le panier inférieur (12) et qui est attachée, pour bouger avec, au couvercle (101) lié, à son tour, au panier inférieur (12).

2. Lave-vaisselle (1) selon la revendication 1 **caractérisée par** une cuvette d'égouttage (108) aux dimensions requises pour empêcher l'égouttage depuis les paniers (12 et 13), orientant l'eau égouttée depuis les objets vers le puisard (3) et ayant une ouverture (106) avec le mur du tube de lavage (2) lors que le couvercle (101) est fermé.

3. Lave-vaisselle (1) selon la revendication 2 **caractérisée en ce que** le puisard (3) est placé en position fermée par rapport à l'ouverture (106) ou sous celle-ci, pour assurer la transmission de l'eau de lavage venant de la cuvette d'égouttage (108) et l'empêchement de son accumulation.

4. Lave-vaisselle (1) selon l'une quelconque des précédentes revendications, **caractérisée par** un ou

plusieurs éléments de pulvérisation (104) sous la cuvette d'égouttage (108), attaché à la ligne de distribution de l'eau (7) et nettoyant les saletés accumulées sur les murs latéraux du puisard (3) et sous la cuvette d'égouttage (108).

5. Lave-vaisselle (1) selon l'une quelconque des précédentes revendications, **caractérisée par** un চালুতী (103) sous le couvercle (102) connecté au panier supérieur (13), attaché au couvercle inférieur (101) lors que le couvercle supérieur (102) est ouvert de façon à ce qu'il n'y ait aucune structure pour empêcher l'eau égouttée depuis les objets quand le panier supérieur (13) est tiré vers dehors, et empêchant l'ouverture de deux couvercles (101 et 102) ensemble en se servant de cuvette d'égouttage (108) pour tous les deux paniers (12 et 13).

6. Lave-vaisselle (1) selon l'une quelconque des précédentes revendications, **caractérisée par** un mécanisme de verrouillage (105) assurant le mouvement indépendant du couvercle inférieur (101) lors qu'il est ouvert avec le couvercle supérieur (102) depuis le panier inférieur (12) et le mouvement accompagné du couvercle inférieur (101) à celui du panier inférieur (12) lors que le couvercle inférieur (101) est ouvert.

7. Lave-vaisselle (1) selon l'une quelconque des précédentes revendications, **caractérisée en ce que** le panier supérieur (13) peut rester en deux différentes positions, à savoir les positions basse et haute, et peut être ajusté en fonction des besoins des utilisateurs et, le couvercle supérieur (102) ayant une hauteur (h_1) qui peut l'empêcher d'être atteint par l'objet (h_2) à la hauteur maximum à laquelle ce dernier peut être placé dans le panier inférieur (12) durant la position haute du panier supérieur (13) lors que le panier (12) et le couvercle inférieur (101) sont tirés à l'extérieur du corps (8), puisque le panier supérieur (13) peut être utilisé dans plusieurs positions.

8. Lave-vaisselle (1) selon la revendication 6 **caractérisée par** un mécanisme d'ajustement de la hauteur (301) servant à ajuster la hauteur du panier supérieur (13) sur deux positions, à savoir les positions basse et haute, en fonction des besoins de l'utilisateur, et un mécanisme de connexion (302) changeant la position du point de connexion du couvercle supérieur (102) avec le panier supérieur (13) lors que la position du panier supérieur (13) a changé.

9. Lave-vaisselle (1) selon l'une quelconque des revendications de 1 à 4, **caractérisée par** une cuvette d'égouttage additionnelle (201) sous le panier supérieur (13), connectée au couvercle (102) qui est attaché au panier supérieur (13) et qui bouge ensemble, empêchant l'égouttage de l'eau depuis les objets

dans le panier supérieur (13) à l'étage lors que le panier (13) est tiré vers l'extérieur du corps (8).

10. Lave-vaisselle (1) selon l'une quelconque des précédentes revendications **caractérisée par** un couvercle inférieur (301) ayant des dimensions suffisantes pour empêcher la base (15) d'être vue et pour obtenir une apparence plus décorative. 5
11. Lave-vaisselle (1) selon l'une quelconque des revendications de 1 à 6, **caractérisée par** un mécanisme d'ajustement de la hauteur (301) servant à ajuster la hauteur du panier supérieur (13) sur deux positions, à savoir les positions basse et haute, en fonction des besoins de l'utilisateur, et un mécanisme de connexion (302) changeant la position du point de connexion du couvercle supérieur (102) avec le panier supérieur (13) lors que la position du panier supérieur (13) a changé, et un couvercle inférieur (101) en une telle forme qui n'empêcherait pas le mouvement du panier supérieur (13) en étant poussé par le panier supérieur (13) lors que ce dernier est tiré vers l'extérieur. 10
15
20
12. Lave-vaisselle (1) selon la revendication 11 **caractérisée en ce que** le couvercle inférieur (101) bouge à l'intérieur et à l'extérieur dans une direction linéaire en raison du mécanisme de mouvement placé dans la partie supérieure. 25
30
13. Lave-vaisselle (1) selon la revendication 11 **caractérisée en ce que** le couvercle inférieur (101) bouge en avant et en arrière dans une direction circulaire en raison du mécanisme de mouvement placé dans la partie supérieure. 35

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Figure 1

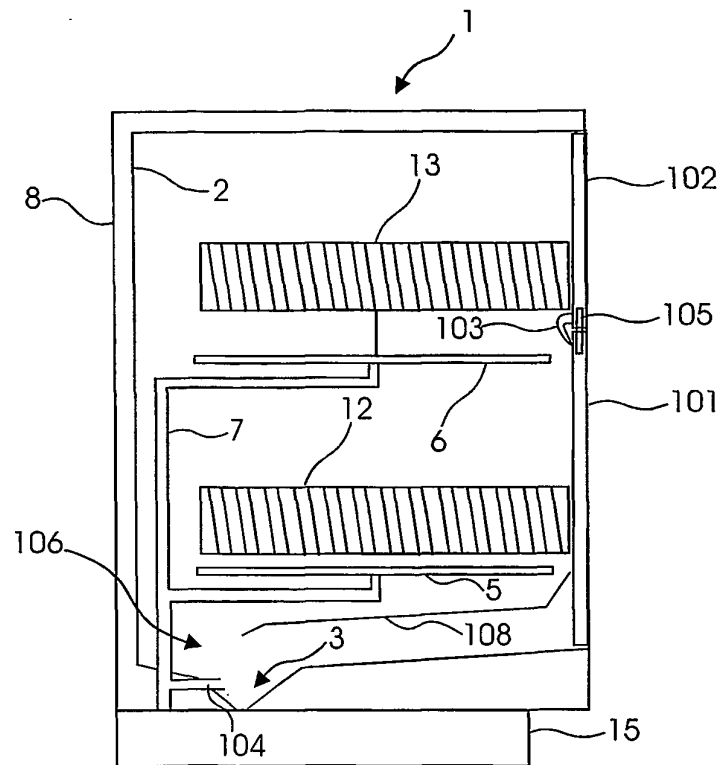


Figure 2

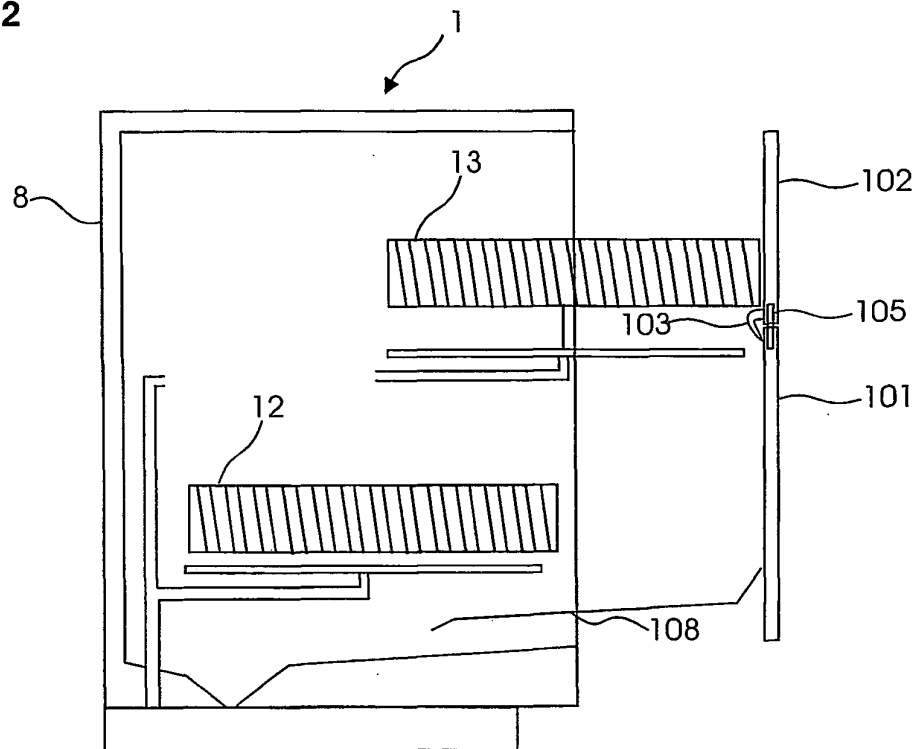


Figure 3

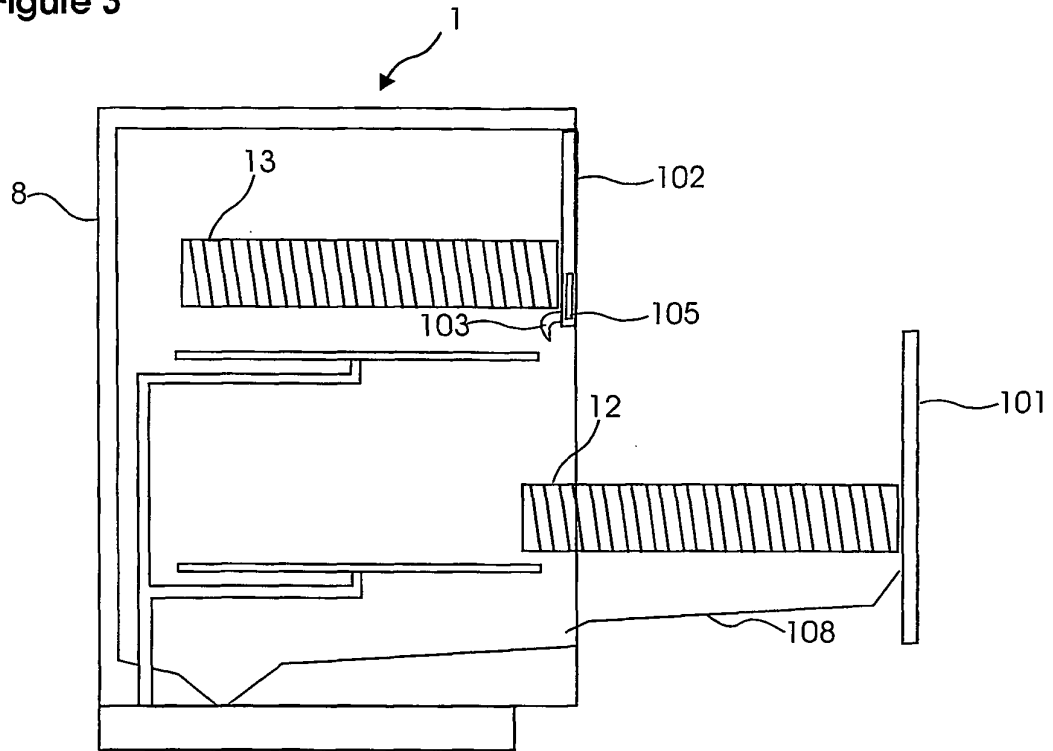


Figure 4

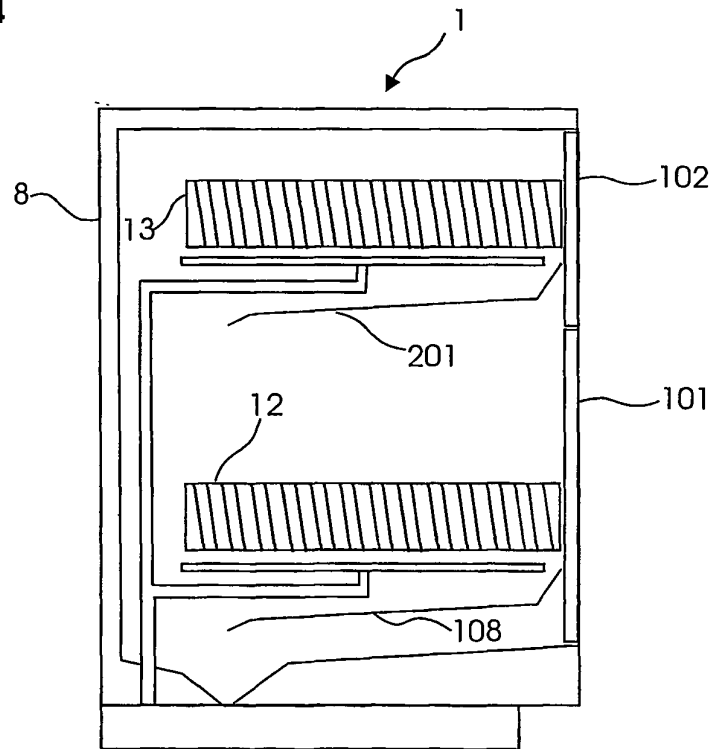


Figure 5

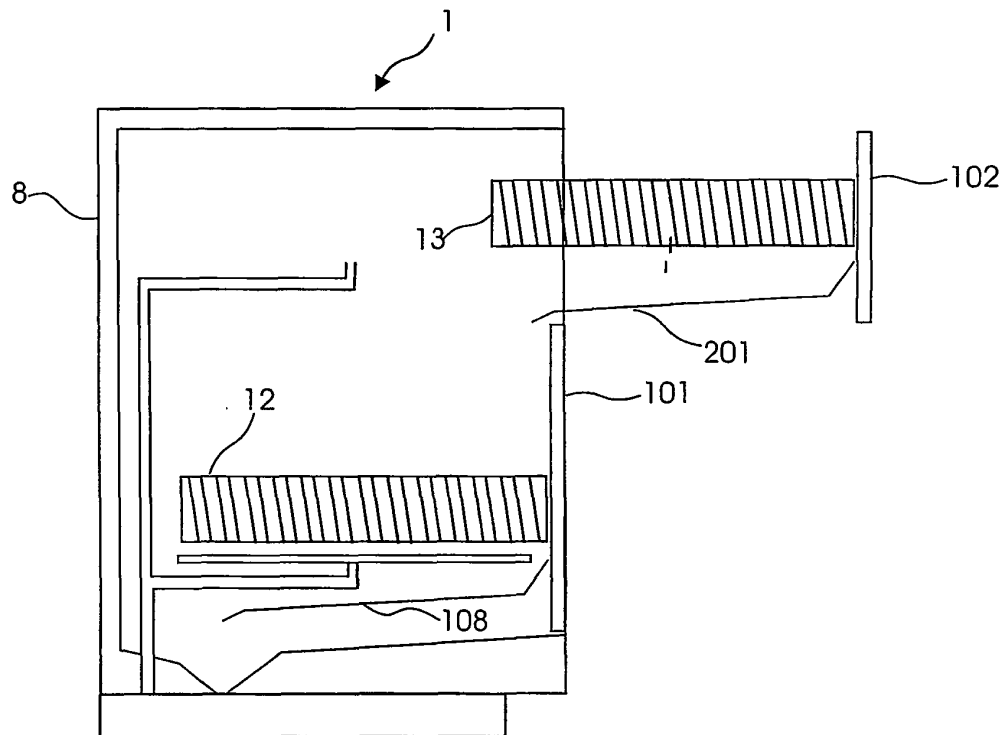


Figure 6

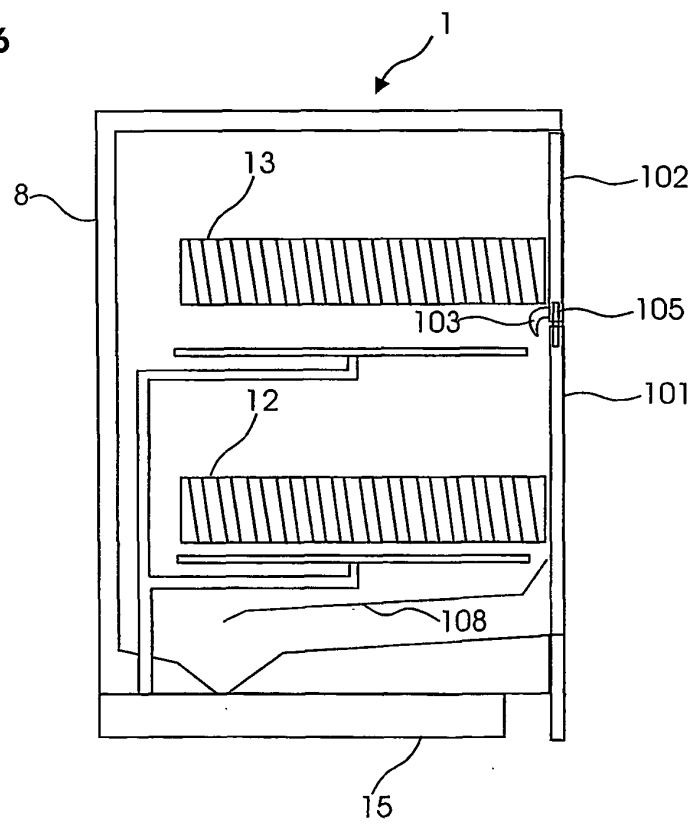


Figure 7

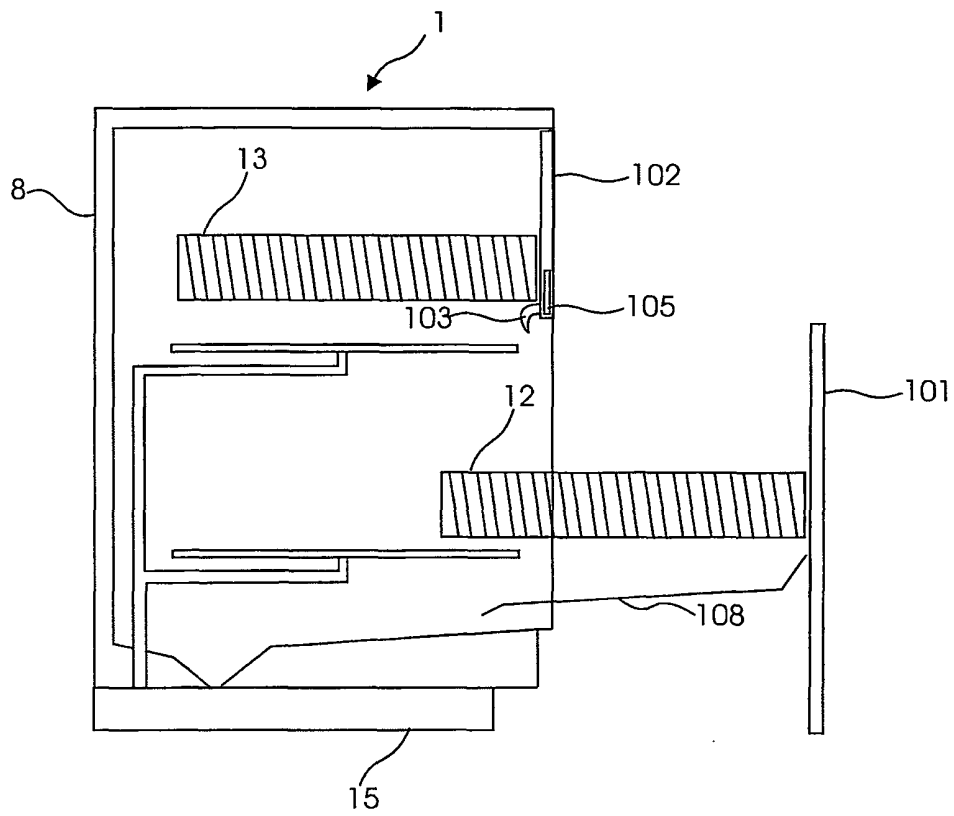


Figure 8

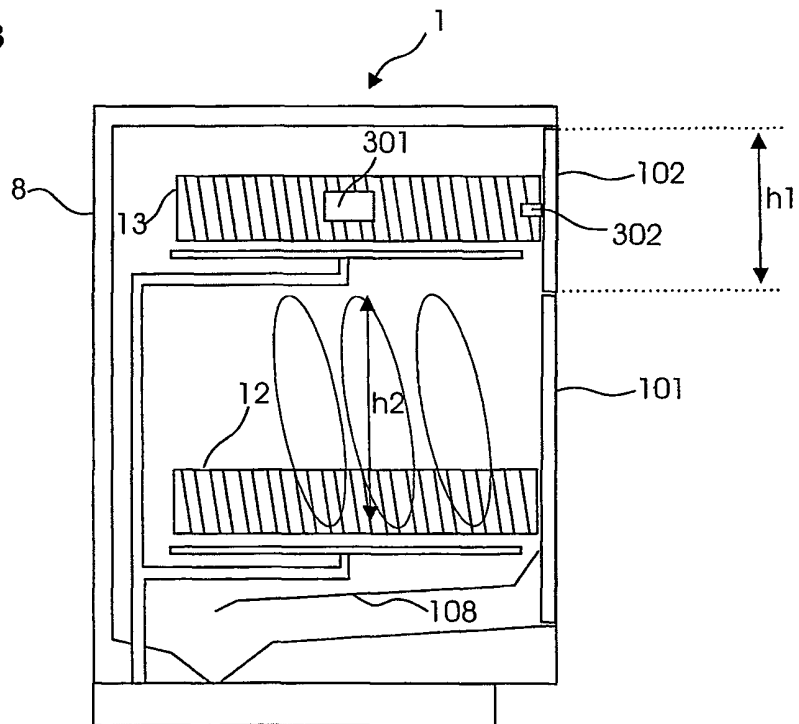


Figure 9

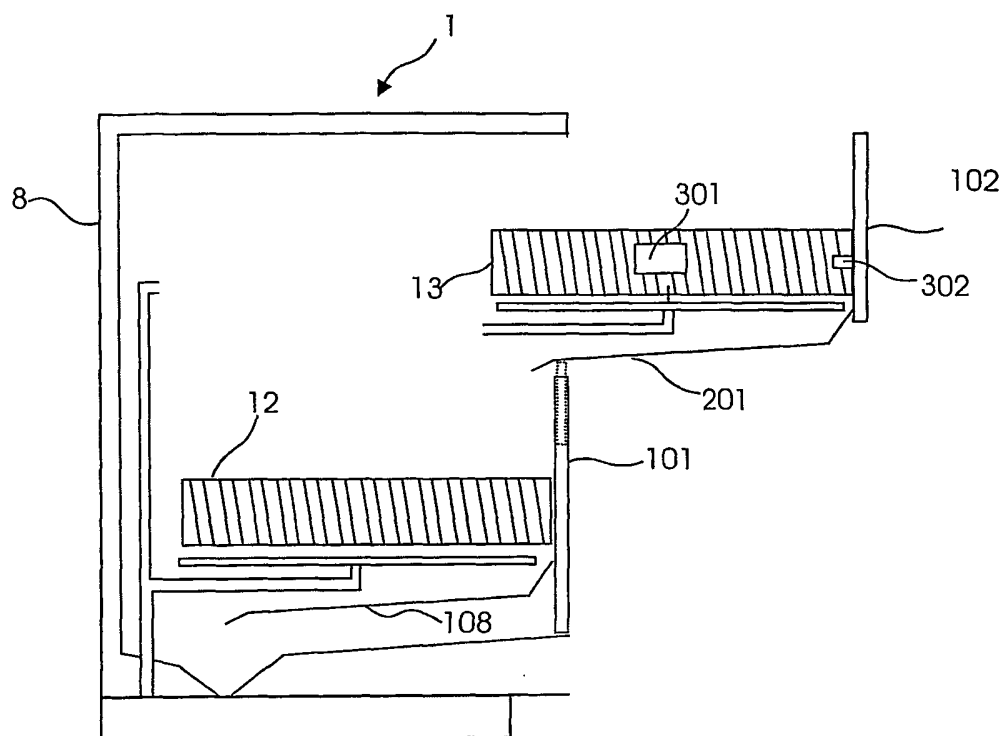
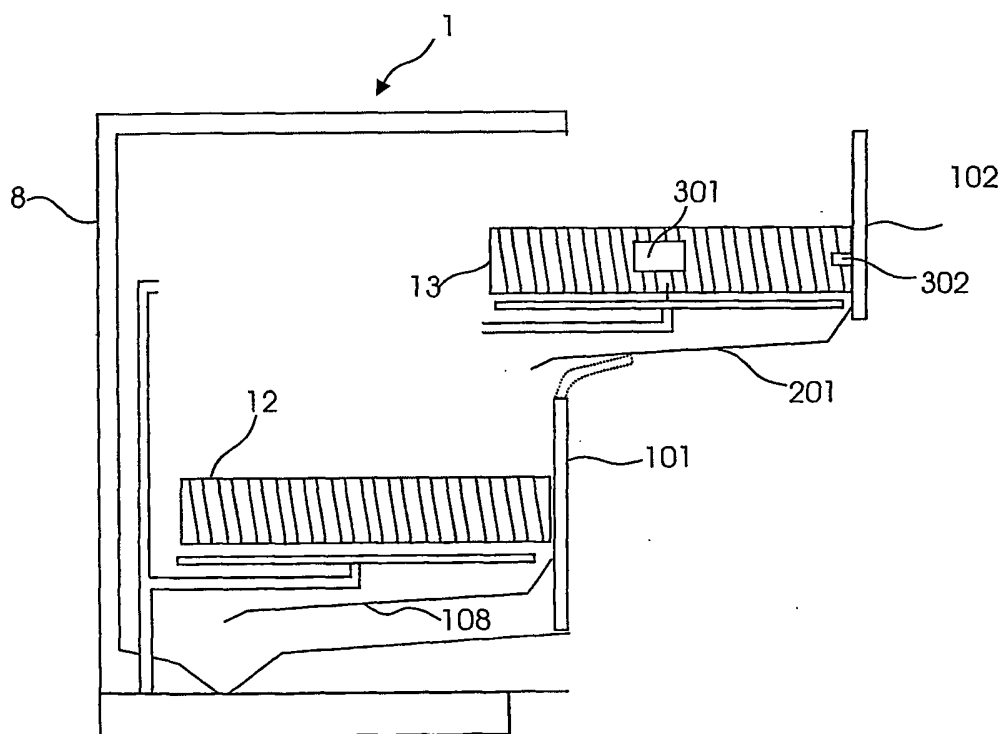


Figure 10



REFERENCES CITED IN THE DESCRIPTION

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