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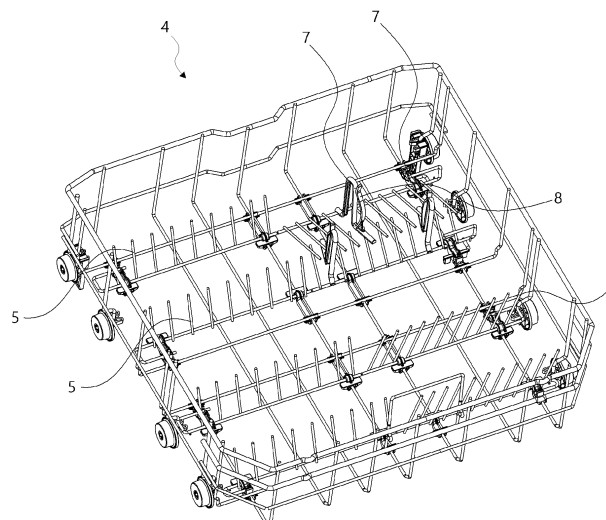
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(54) **A DISHWASHER COMPRISING A BOTTLE HOLDER**

(57) The present invention relates to a dishwasher (1) comprising a body (2); a washing tub (3) which is arranged in the body (2) and wherein the washing process is realized; at least one rack (4) which is disposed in the washing tub (3) and whereon the dishes to be washed are placed; a plurality of plate holder wires (5) which are provided on the rack (4) and which enable the kitchen items to be fixed on the rack (4); at least one spraying

member (6) which enables the water to be sprayed onto the rack (4) and the kitchen items to be cleaned, and a bottle holder wire (7) which is disposed in place of at least one plate holder wire (5) in the same row, wherein the plate holder wire (5) and the bottle holder wire (7) in the same row are used alternately by rotating around the horizontal axis.

Figure 3



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Description

[0001] The present invention relates to a dishwasher comprising a bottle holder.

[0002] In dishwashers, the washing process is realized by spraying the water received from the main delivery line onto the dishes by means of spray arms. The spraying members provided on the spray arm enable the water to be sprayed onto the dishes at a certain pressure. The flow rate and pressure of the sprayed water are critical in terms of cleaning of the dishes. In the dishwashers, washing areas are formed to clean heavy stains. Additional spraying members are used to clean the stains in the washing areas. The kitchen items placed onto the rack are cleaned with water pressure and detergent. Therefore, the layout of the dishes on the rack is important to perform a highly-efficient washing process. Especially tall kitchen items such as bottles and glasses with a narrow mouth cannot contact water and thus, cannot be cleaned. Therefore, a plurality of arrangement apparatuses are used in dishwashers. However, the arrangement apparatuses occupy additional space and decrease the usable volume of the rack. When not in use, the arrangement apparatuses prevent the proper arrangement.

[0003] In the state of the art Patent Document No. EP2332458, a dishwasher is disclosed, comprising a foldable bottle holder apparatus.

[0004] The aim of the present invention is the realization of a dishwasher which provides ease of use.

[0005] The dishwasher realized in order to attain the aim of the present invention, explicated in the first claim and the respective claims thereof, comprises a body; a washing tub which is disposed in the body, wherein the washing process is performed; at least one rack which is disposed in the washing tub; a plurality of plate holder wires which enable the placement of items onto the rack; and at least one spraying member which sprays water onto the racks. The kitchen items to be washed are placed onto the rack. By means of the plate holder wires, the kitchen items are fixed onto the rack. The water is delivered onto the dishes by means of the spraying member. Consequently, the cleaning process is performed.

[0006] The dishwasher of the present invention comprises a bottle holder wire which is disposed in place of at least one plate holder wire in the same row. The plate holder wire and the bottle holder wire in the same row are used alternately. Thus, the bottle holder wire remains between the kitchen items and does not occupy space when not in use.

[0007] In an embodiment of the present invention, the dishwasher comprises the bottle holder wire having a placement position and an idle position. When the bottle holder wire is in the placement position, the plate holder wire extends parallel to the base of the rack. When the bottle holder wire is in the idle position, the plate holder wire extends perpendicular to the base of the rack, suitable for the placement of items thereon.

[0008] In an embodiment of the present invention, the dishwasher comprises the bottle holder wire which is used as plate holder wire when in the idle position. When the bottle holder wire is in the idle position, the edge thereof perpendicular to the base of the rack is used as the plate holder, suitable for bearing plates against the same.

[0009] In an embodiment of the present invention, the dishwasher comprises the U-shaped bottle holder wire. By means of the U shape of the bottle holder wire, the kitchen items with a narrow mouth such as bottle, glass, etc. can be fixed. When in the placement position, the bottle holder wire is in the form of a reverse U. When in the idle position, the bottle holder wire is recumbent. Thus, the kitchen items such as plate, etc. can bear against the same.

[0010] In an embodiment of the present invention, the dishwasher comprises a gripping member which is disposed next to the bottle holder wire. The items placed such as glass, bottle, etc. is positioned between the bottle holder wire and the gripping member. Thus, the kitchen items are prevented from being scattered.

[0011] By means of the present invention, a dishwasher which provides ease of use is realized. By means of the bottle holder wires, the kitchen items with a narrow mouth such as bottle, glass, etc. are easily placed. When not in use, the bottle holder wire can be used as plate holder, preventing any decrease in the area of use.

[0012] A dishwasher 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 the dishwasher.
Figure 2 - is the partial view of the rack when the bottle holder wire is in the idle position.

Figure 3 - is the perspective view of the rack when the bottle holder wire is in the placement position.

[0013] The elements illustrated in the figures are numbered as follows:

1. Dishwasher
2. Body
3. Washing tub
4. Rack
5. Plate holder wire
6. Spraying member
7. Bottle holder wire
8. Gripping member

[0014] The dishwasher (1) comprises a body (2); a washing tub (3) which is arranged in the body (2) and wherein the washing process is realized; at least one rack (4) which is disposed in the washing tub (3) and whereon the dishes to be washed are placed; a plurality of plate holder wires (5) which are provided on the rack (4) and which enable the kitchen items to be fixed on the rack (4); and at least one spraying member (6) which enables the water to be sprayed onto the rack (4) and

the kitchen items to be cleaned. By means of the plate holder wire (5), the kitchen items are regularly placed and fixed on the rack (4). By means of the spraying member (6), the water is sprayed onto the kitchen items, performing the cleaning process.

[0015] The dishwasher (1) of the present invention comprises the rack (4) having a bottle holder wire (7) which is disposed in place of at least one plate holder wire (5) in the same row, wherein the plate holder wire (5) and the bottle holder wire (7) in the same row are used alternately by rotating around the horizontal axis. The rack (4) comprises the bottle holder wire (7) in place of at least one plate holder wire (5) in the same row. The bottle holder wire (7) and the plate holder wire (5) in the same row are used alternately by rotating around the horizontal axis. Thus, the bottle holder wire (7) does not occupy space on the rack (4) when not in use.

[0016] In an embodiment of the present invention, the dishwasher (1) comprises the bottle holder wire (7) having a placement position wherein the plate holder wire (5) is parallel to the base of the rack (4) and an idle position wherein the plate holder wire (5) is perpendicular to the base of the rack (4) so as to be suitable for placing plates thereon. When the plate holder wire (5) is parallel to the base of the rack (4), the bottle holder wire (7) shifts to the placement position so as to be in use. When the plate holder wire (5) is perpendicular to the base of the rack (4), the bottle holder wire (7) shifts to the idle position.

[0017] In an embodiment of the present invention, the dishwasher (1) comprises the bottle holder wire (7) which is used as plate holder wire (5) when in the idle position. When in the idle position, the bottle holder wire (7) can be used as the plate holder wire (5), suitable for bearing plates against the same. Thus, the bottle holder wire (7) is not required to be removed from the rack (4) when not in use, thus providing ease of use.

[0018] In an embodiment of the present invention, the dishwasher (1) comprises the U-shaped bottle holder wire (7). When in the placement position, the bottle holder wire (7) is in the form of a reverse U. In the idle position, the U-shaped bottle holder wire (7) is recumbent.

[0019] In an embodiment of the present invention, the dishwasher (1) comprises a gripping member (8) which is disposed next to the bottle holder wire (7) and which enables the bottle to be fixed. By means of the gripping member (8), the kitchen items such as bottle, glass, etc. is fixed between the bottle holder wire (7) and the gripping member (8). Thus, the kitchen items are prevented from being scattered during the washing process.

[0020] By means of the present invention, a dishwasher (1) is realized, comprising the bottle holder wire (7) which facilitates the placement of the kitchen items such as bottle, glass, etc. on the rack (4). When not in use, the bottle holder wire (7) is shifted to the idle position so as to be used as the plate holder wire (5).

Claims

1. A dishwasher (1) comprising a body (2); a washing tub (3) which is arranged in the body (2) and wherein the washing process is realized; at least one rack (4) which is disposed in the washing tub (3) and whereon the dishes to be washed are placed; a plurality of plate holder wires (5) which are provided on the rack (4) and which enable the kitchen items to be fixed on the rack (4); and at least one spraying member (6) which enables the water to be sprayed onto the rack (4) and the kitchen items to be cleaned, **characterized by** the rack (4) having a bottle holder wire (7) which is disposed in place of at least one plate holder wire (5) in the same row, wherein the plate holder wire (5) and the bottle holder wire (7) in the same row are used alternately by rotating around the horizontal axis.
2. A dishwasher (1) as in Claim 1, **characterized by** the bottle holder wire (7) having a placement position wherein the plate holder wire (5) is parallel to the base of the rack (4) and an idle position wherein the plate holder wire (5) is perpendicular to the base of the rack (4) so as to be suitable for placing plates thereon.
3. A dishwasher (1) as in Claim 2, **characterized by** the bottle holder wire (7) which can be used as the plate holder wire (5) in the idle position.
4. A dishwasher (1) as in any one of the above claims, **characterized by** the bottle holder wire (7) which is in the form of a U.
5. A dishwasher (1) as in any one of the above claims, **characterized by** a gripping member (8) which is disposed next to the bottle holder wire (7) and which enables the bottle to be fixed.

Figure 1

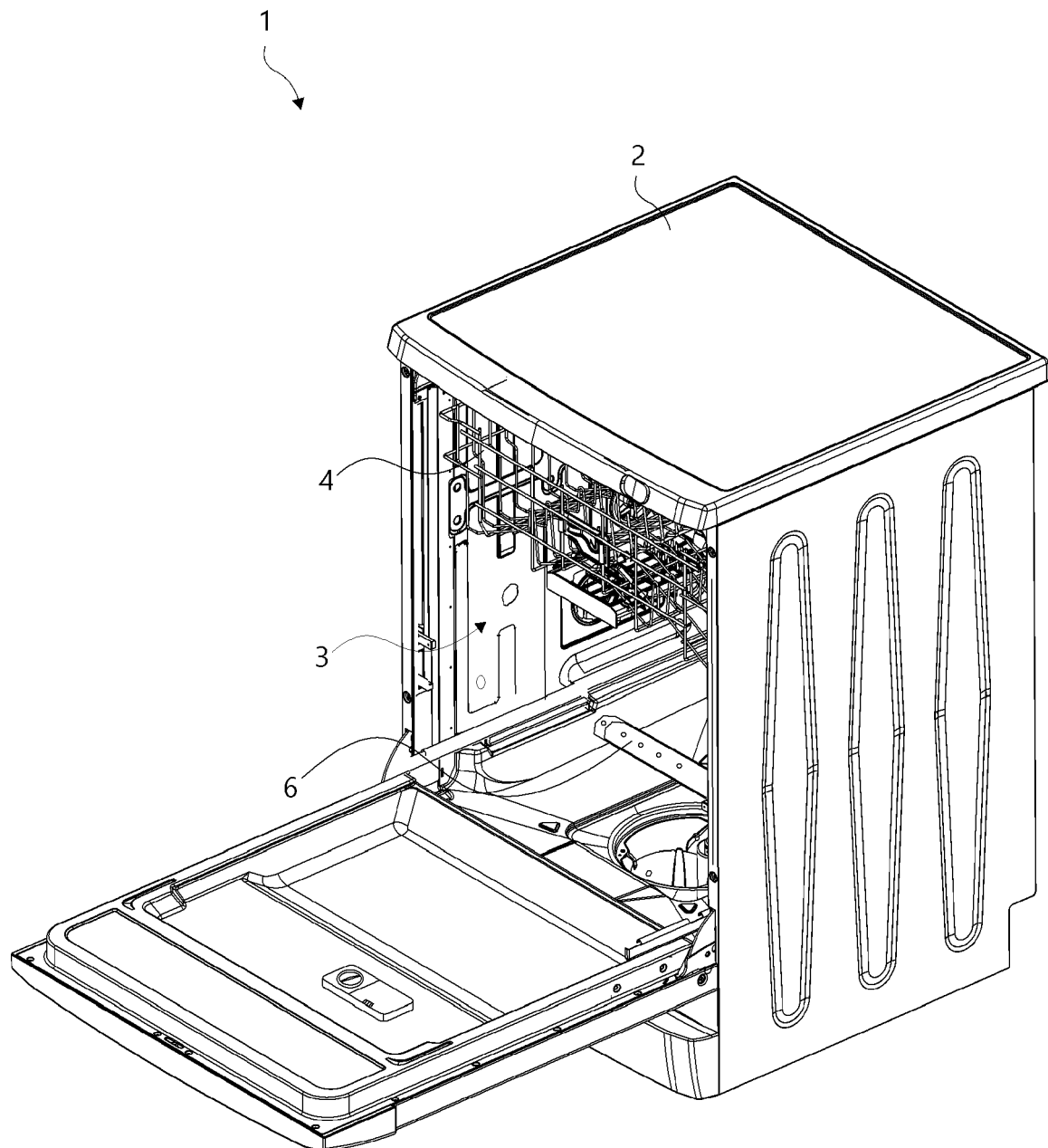


Figure 2

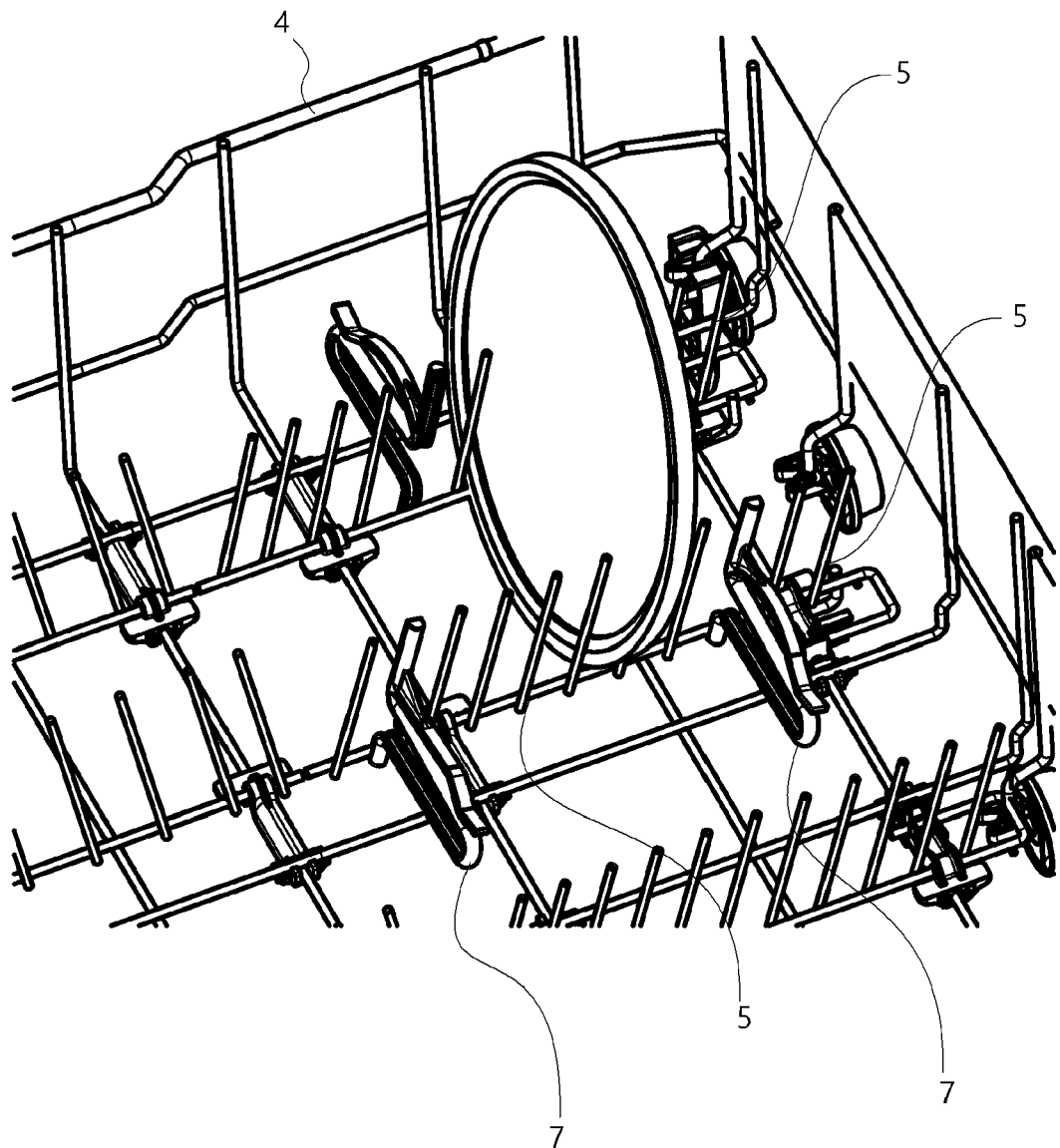
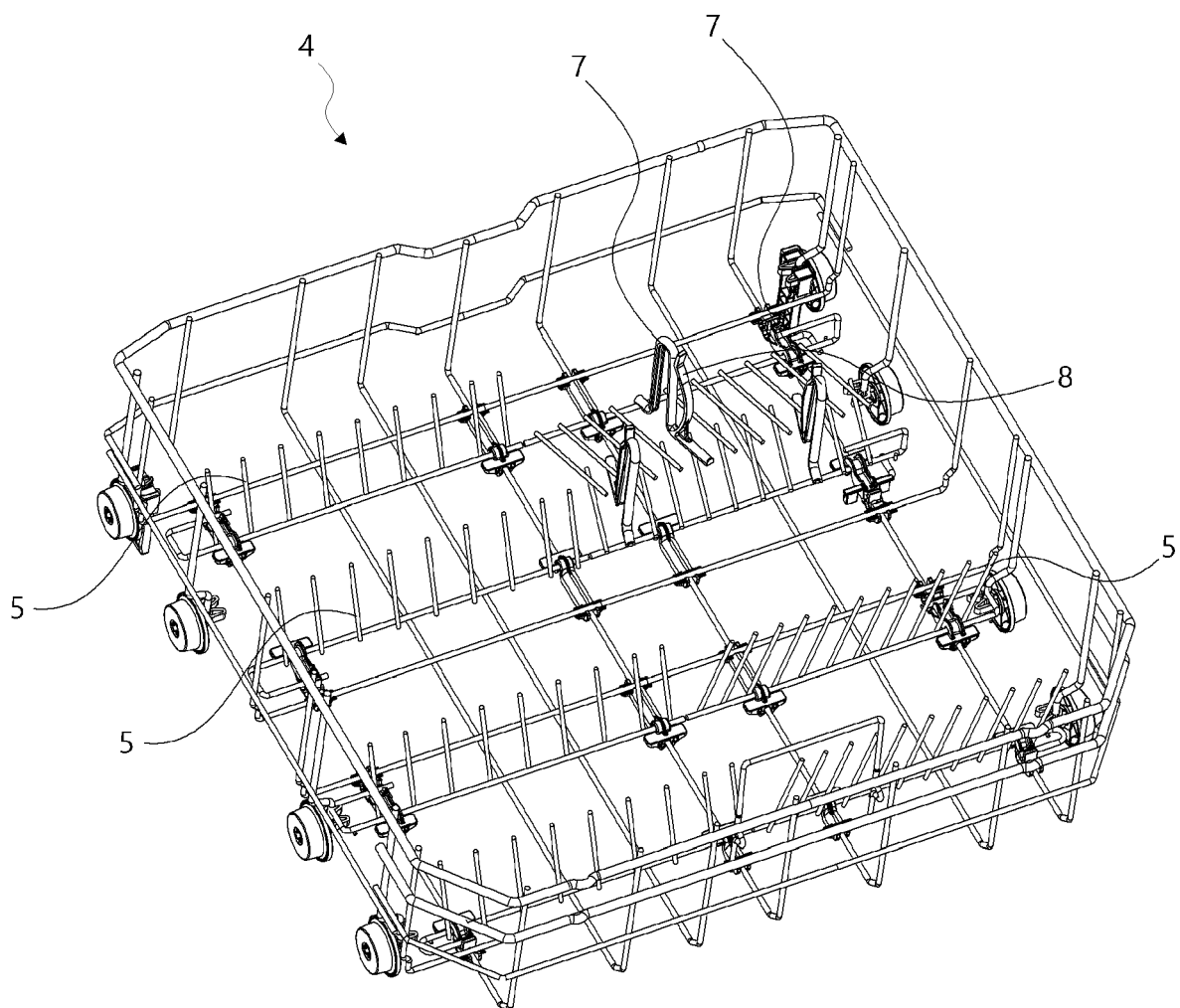


Figure 3





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Application Number
EP 20 19 3643

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Place of search Munich		Date of completion of the search 26 January 2021	Examiner Weidner, Maximilian
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ANNEX TO THE EUROPEAN SEARCH REPORT
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