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(54) **A BASKET SYSTEM**

(57) With the present invention, there is provided a basket system (S) suitable for use in household appliances (G) such as dishwashers, and comprising at least one body (1) wherein the dishes are cleaned; at least one washing apparatus (1a) positioned on the body (1) and transferring the washing liquid onto the dishes; at least one basket (2) positioned on the body (1) and consisted of at least two wires (2a), and on which the dishes are placed that are desired to be cleaned; at least one movement member (2c) that moves the basket (2) inside the body (1). The basket system (S) comprises at least one basket bottom (2b) on which the basket (2) is detachably placed, and at least one bend (2d), which is provided on the basket bottom (2b), which prevents the basket (2) from moving in the movement direction of the basket bottom (2b), independent from the basket bottom (2b), when the basket (2) is placed on the said basket bottom (2b), and which is interposed between the wires (2a) of the basket (2).

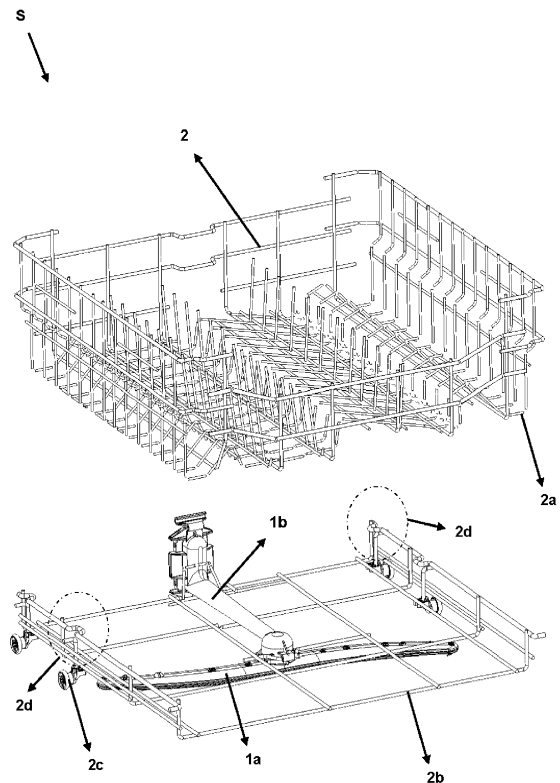


Figure 4

Description

Technical Field

[0001] The present invention relates to a basket system suitable for use in household appliances such as dishwashers.

Background Art

[0002] Currently, household appliances such as dishwashers have baskets into which the dishes are placed that are desired to be washed. The dishes that have been washed up are taken from the basket and placed into spaces such as kitchen cupboards where they are stored. However, it requires strength to place the dishes one-by-one into the kitchen cupboards that are typically located at higher positions than the dishwashers, and it also takes time.

[0003] US2005241686A1 discloses a rack assembly positioned in a dishwasher. This assembly includes a basket on which the tableware are placed and washed, and a supplementary rack detachably mounted on the said basket and shiftable thereon. Since the supplementary rack is detachable from the basket, it is prevented from occupying redundant space on the basket, if not required to be used. Furthermore, due to the fact that it is shiftable on the basket, a position thereof can be adjusted, according to the needs. However, since the said supplementary rack in US2005241686A1 is open at side-ways, the supplementary rack cannot be separated from the basket and moved close to the kitchen cupboard, with the tableware placed thereon.

Brief Description of the Invention

[0004] With the present invention, there is provided a basket system suitable for use in household appliances such as dishwashers, and comprising at least one body wherein the dishes are cleaned; at least one washing apparatus positioned on the body and transferring the washing liquid onto the dishes; at least one basket which is positioned on the body and consisted of at least two wires and on which the dishes are placed that are desired to be cleaned; and at least one movement member that moves the basket inside the body; the basket system being characterized by comprising at least one basket bottom on which the basket is detachably placed, and at least one bend which is provided on the basket bottom, which prevents the basket from moving in the movement direction of the basket bottom, independent from the basket bottom, when the basket is placed on the said basket bottom, and which is interposed between the wires of the basket.

[0005] With the inventive basket system, the dishes that have been cleaned and desired to be conveyed to the space where they are stored, are separated from the household appliance together with the basket on which

they are placed and are conveyed to the desired position at one time.

Object of the Invention

[0006] An object of the present invention is to provide a basket system suitable for use in household appliances such as dishwashers.

[0007] Another object of the present invention is to provide a basket system from which the basket contained therein can be separated.

[0008] A further object of the present invention is to provide a basket system wherein the basket contained therein is prevented from moving independent from it, during the movement of the same.

[0009] Another object of the present invention is to provide a basket system wherein the basket contained therein may be easily placed thereon.

[0010] Still another object of the present invention is to provide a basket system which offers ease of use, and which is robust and reliable.

Description of the Drawings

[0011] The illustrative embodiments of the basket system according to the present invention are illustrated in the enclosed drawings, in which:

Figure 1 is a perspective view of the inner side of a household appliance comprising the basket system according to the present invention.

Figure 2 is a front view of the inner side of a household appliance comprising the basket system according to the present invention.

Figure 3 is a perspective view of the basket system according to the present invention.

Figure 4 is an exploded view of the basket system according to the present invention.

Figure 5 is a perspective view of a detail D shown in Figure 3.

[0012] All the parts illustrated in the drawings are individually assigned a reference numeral and the corresponding terms of these numbers are listed as follows:

Household appliance	(G)
Basket system	(S)
Body	(1)
Washing apparatus	(1a)
Connecting arm	(1b)
Basket	(2)
Wire	(2a)
Basket bottom	(2b)
Movement member	(2c)
Bend	(2d)
Detail	(D)

Description of the Invention

[0013] In order to be washed up, the dirty dishes are placed onto the baskets provided in household appliances such as dishwashers. After they have been washed, the dishes on the basket are collected and placed onto the spaces such as kitchen cupboards where they are stored. Since the kitchen cupboards are usually located at higher positions than the dishwashers, it is risky for the health of the user to collect the heavy dishes one-by-one from the basket and place them into the kitchen cupboards, and it also takes time to convey the dishes from the basket to the kitchen cupboards. Therefore, with the present invention, there is provided a basket assembly comprising a basket that may be conveyed to a location, with the dishes being positioned thereon, close to the space where the cleaned dishes are desired to be put. The basket system (S) according to the present invention, as illustrated in figures 1-5, is suitable for use in household appliances (G) such as dishwashers, and comprising at least one body (1) wherein the dishes are cleaned; at least one washing apparatus (1a) positioned on the body (1) and transferring the washing liquid onto the dishes; at least one basket (2) positioned on the body (1), preferably on an upper part of the washing apparatus (1a) that is distant from the floor, and consisted of at least two wires (2a), and on which the dishes are placed that are desired to be cleaned; at least one movement member (2c) that moves the basket (2) inside the body (1); the system also comprises at least one basket bottom (2b) on which the basket (2) is detachably placed, and at least one bend (2d), preferably made from wires (2a), which is provided on the basket bottom (2b), which prevents the basket (2) from moving in the movement direction of the basket bottom (2b), independent from the basket bottom (2b), when the basket (2) is placed on the said basket bottom (2b), and which is interposed between the wires (2a) of the basket (2), the ends of which that are distant from the floor are preferably open (i.e. they are not coupled to each other). In a preferred embodiment of the invention, the movement member (2c) may be arranged on the said basket bottom (2b), or it may be arranged on the basket (2) in other embodiment.

[0014] In an illustrative embodiment of the invention, the basket (2) is disposed on the basket bottom (2b) such that the bend (2d) of the basket bottom (2b) is interposed between the wires (2a) of the basket (2), as shown in figure 5 in detail. Thus, the basket (2) is prevented from moving in the movement direction of the basket bottom (2b), independent from the basket bottom (2b), during the sliding movement of the basket bottom (2b) especially outside of the body (1) or inside of the body (1). Moreover, since the ends of the wires (2a) that are distant from the floor are open - said bend (2d) being interposed between the wires (2a) - the basket (2) may be lifted upwards from the floor and separated from the basket bottom (2b).

[0015] In a preferred embodiment, said bend (2d) is U-shaped. One of the two arms forming U-shape of the said

bend (2d) contacts one of the wires (2a), between which it is interposed, and restricts the movement of the basket (2), during the movement of the basket (2) on the basket bottom (2b) in a direction (i.e. outside the body (1)). Similarly, the other one of the two arms forming U-shape of the bend (2d) contacts the other one of the wires (2a), between which it is interposed, and restricts the movement of the basket (2) in the opposite direction, during the movement of the basket (2) on the basket bottom (2b) in the opposite direction (i.e. inside the body (1)). Thereby, the basket (2) is prevented from slidably move on the basket bottom (2b), independent from the basket bottom (2b).

[0016] In another preferred embodiment of the invention, at least one connecting arm (1b) that allows connection of the washing apparatus (1a) of the household appliance (G) to the body (1) is positioned at an upper part of the basket bottom (2b) that is distant from the floor, and the washing apparatus (1a) positioned at an end of the said connecting arm (1b) that is distant from the body (1) is positioned at a lower part of the basket bottom (2b) that is close to the floor.

[0017] In another embodiment of the invention, the basket bottom (2b) is also consisted of wires (2a) so as to enable the washing liquid to reach the dishes placed on the basket (2).

[0018] In an alternative embodiment of the invention, the basket system (S) comprises even numbered bends (2d) positioned on the basket bottom (2b), at opposite two side edges of the basket bottom (2b) that are perpendicular to the opening thereof that allows access to the inside of the household appliance (G), such that they are preferably aligned with each other. In an embodiment of the invention, the basket system (S) comprises two bends (2d) on one of the edges, and two bends (2d) at the edge opposite to the said edge. Thus, the basket (2) is connected to the basket bottom (2b), at two sides thereof, during the movement of the basket bottom (2b), so that it is connected to the basket bottom (2b) in a robust manner.

[0019] In another preferred embodiment of the invention, the basket bottom (2b) comprises even numbered movement members (2c) positioned at opposite edges, in order to enable its balanced movement in the household appliance (G).

Claims

1. A basket system (S) suitable for use in household appliances (G) such as dishwashers, and comprising at least one body (1) wherein the dishes are cleaned; at least one washing apparatus (1a) positioned on the body (1) and transferring the washing liquid onto the dishes; at least one basket (2) positioned on the body (1) and consisted of at least two wires (2a), and on which the dishes are placed that are desired to be cleaned; at least one movement

member (2c) that moves the basket (2) inside the body (1), **characterized by** comprising;

- at least one basket bottom (2b) on which the basket (2) is detachably placed, and
- at least one bend (2d), which is provided on the basket bottom (2b), which prevents the basket (2) from moving in the movement direction of the basket bottom (2b), independent from the basket bottom (2b), when the basket (2) is placed on the said basket bottom (2b), and which is interposed between the wires (2a) of the basket (2).

2. A basket system (S) according to claim 1, **characterized in that** the basket (2) is positioned on an upper part of the washing apparatus (1a) that is distant from the floor. 15
3. A basket system (S) according to claim 1, **characterized in that** the ends of the wires (2a) that are distant from the floor are open. 20
4. A basket system (S) according to claim 1, **characterized in that** the bend (2d) is made from wire (2a). 25
5. A basket system (S) according to claim 1, **characterized in that** the movement member (2c) is located on the said basket bottom (2b). 30
6. A basket system (S) according to claim 1, **characterized in that** the movement member (2c) is located on the basket (2).
7. A basket system (S) according to claim 1, **characterized in that** the bend (2d) is U-shaped. 35
8. A basket system (S) according to claim 7, **characterized in that** one of the two arms forming U-shape of the bend (2d) contacts one of the wires (2a), between which it is interposed, during the movement of the basket (2) on the basket bottom (2b) in a direction. 40
9. A basket system (S) according to claim 8, **characterized in that** the other one of the two arms forming U-shape of the bend (2d) contacts the other one of the wires (2a), between which it is interposed, during the movement of the basket (2) on the basket bottom (2b) in the opposite direction. 45 50
10. A basket system (S) according to claim 1, **characterized in that** at least one connecting arm (1b) that allows connection of the washing apparatus (1a) to the body (1) is positioned at an upper part of the basket bottom (2b) that is distant from the floor, and the washing apparatus (1a) positioned at an end of the said connecting arm (1 b) that is distant from the 55

body (1) is positioned at a lower part of the basket bottom (2b) that is close to the floor.

11. A basket system (S) according to claim 1, **characterized in that** the basket bottom (2b) is formed from wires (2a). 5
12. A basket system (S) according to claim 1, **characterized by** comprising even numbered bends (2d) positioned on the basket bottom (2b), at opposite two side edges of the basket bottom (2b) that are perpendicular to the opening thereof that allows access to the inside of the household appliance (G). 10
13. A basket system (S) according to claim 12, **characterized in that** the bends (2d) are positioned to be aligned with each other. 15
14. A basket system (S) according to claim 12, **characterized by** comprising two bends (2d) on one of the edges, and two bends (2d) at the edge opposite to the said edge. 20
15. A basket system (S) according to claim 1, **characterized in that** the basket bottom (2b) comprises even numbered movement members (2c) positioned at opposite edges. 25

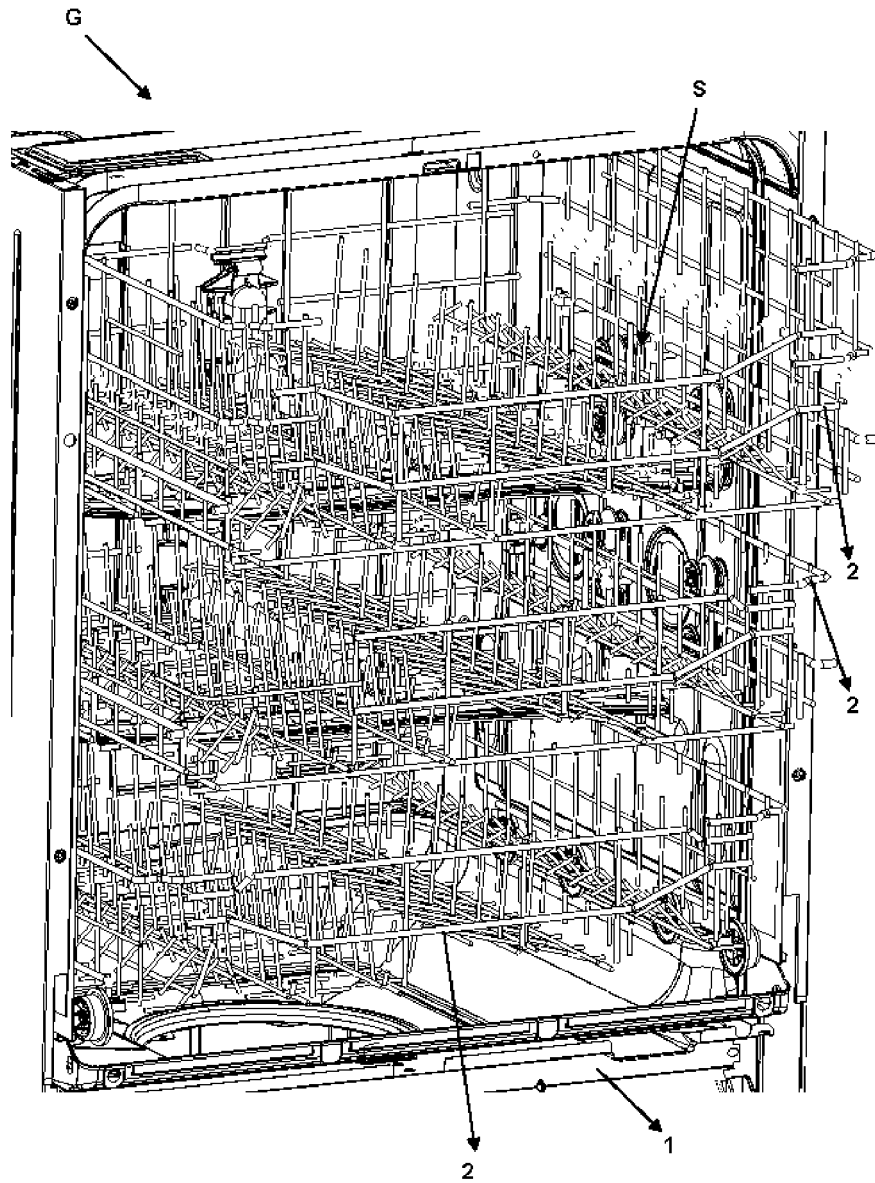


Figure 1

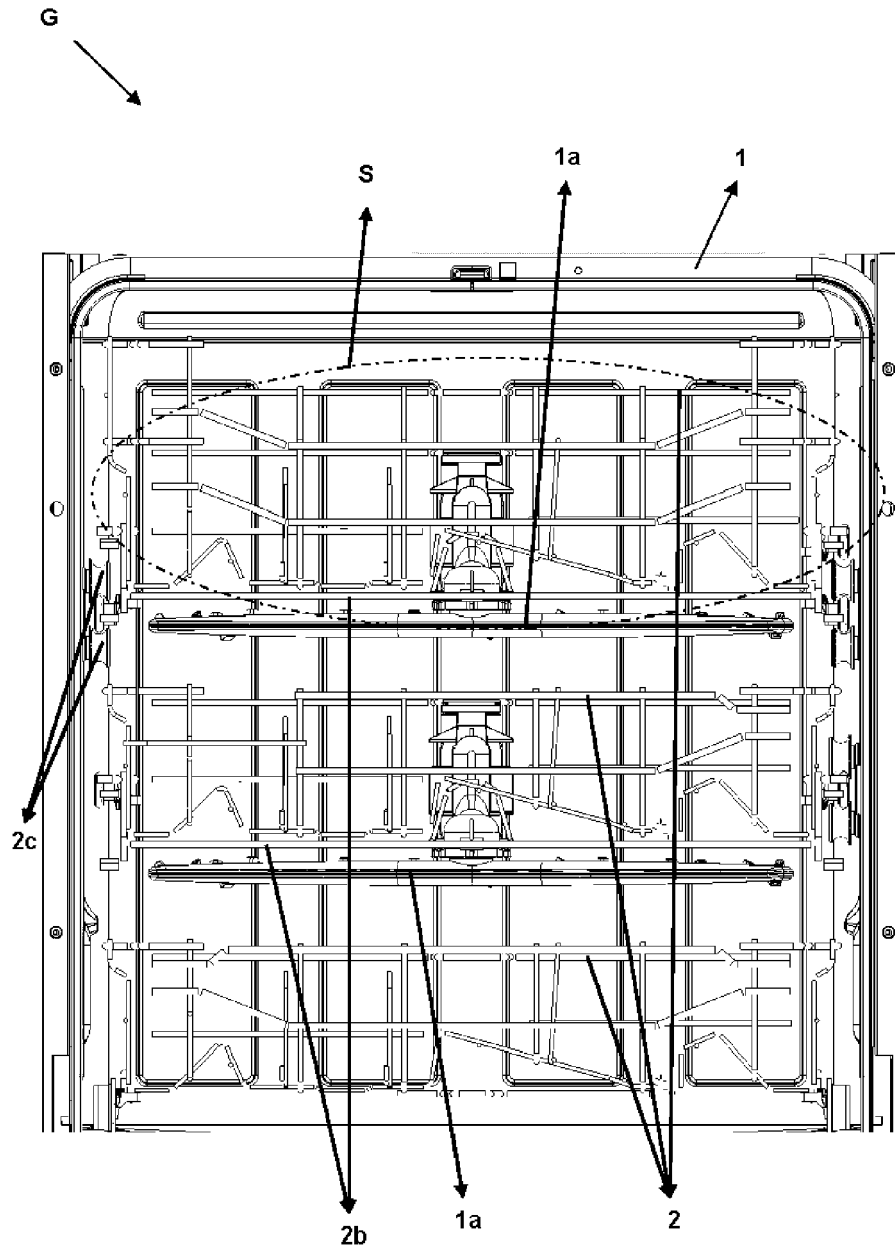


Figure 2

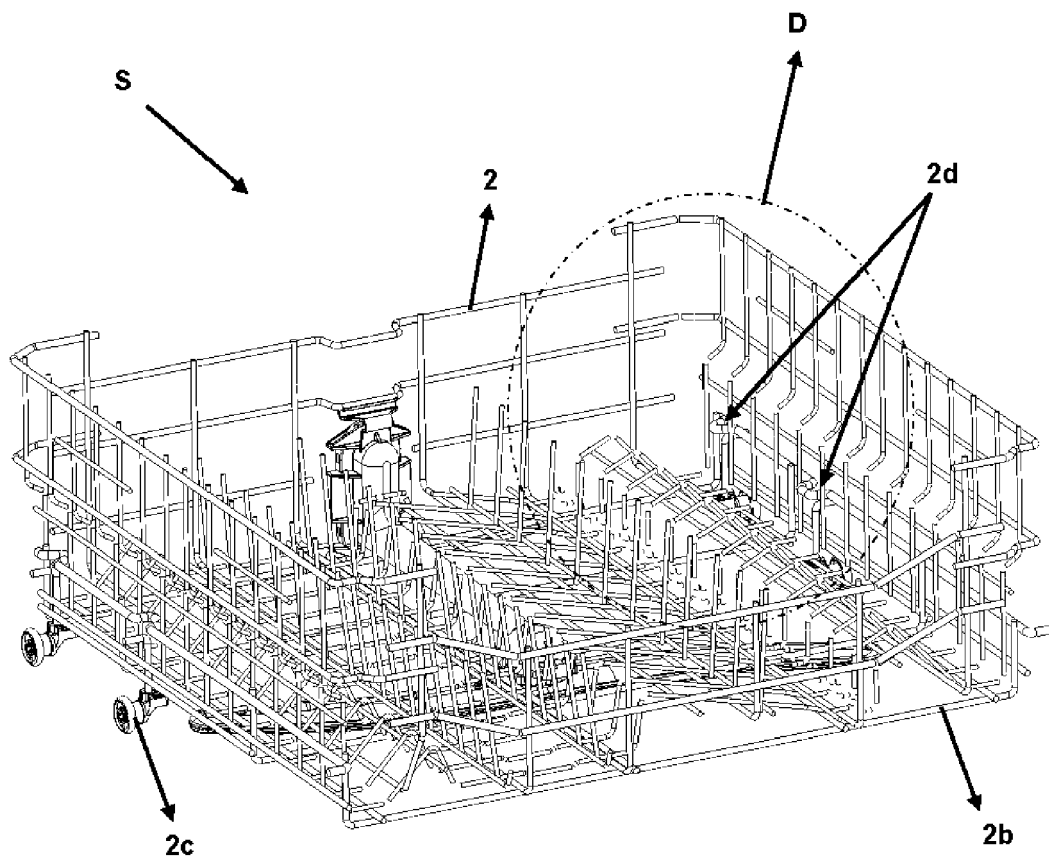


Figure 3

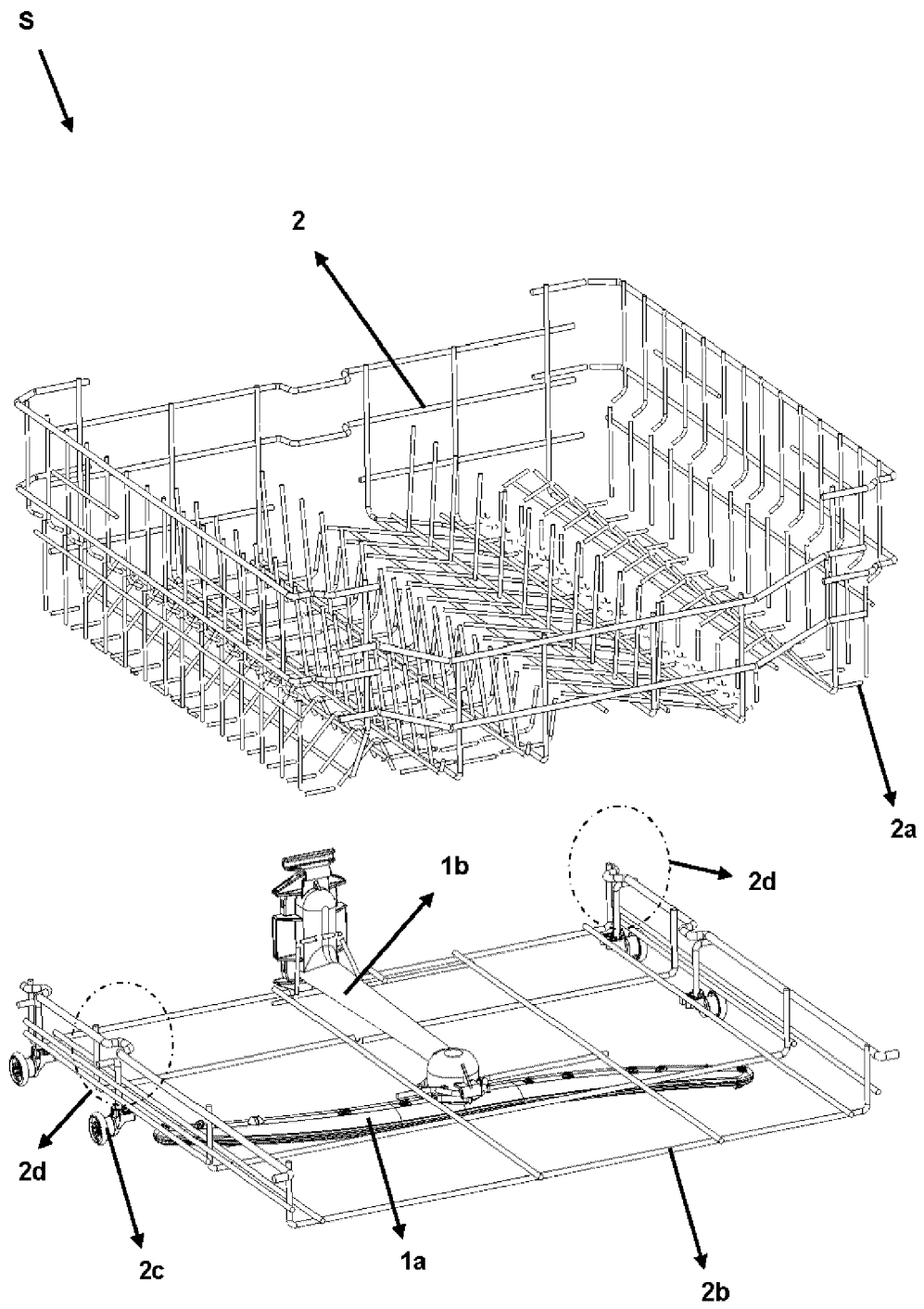


Figure 4

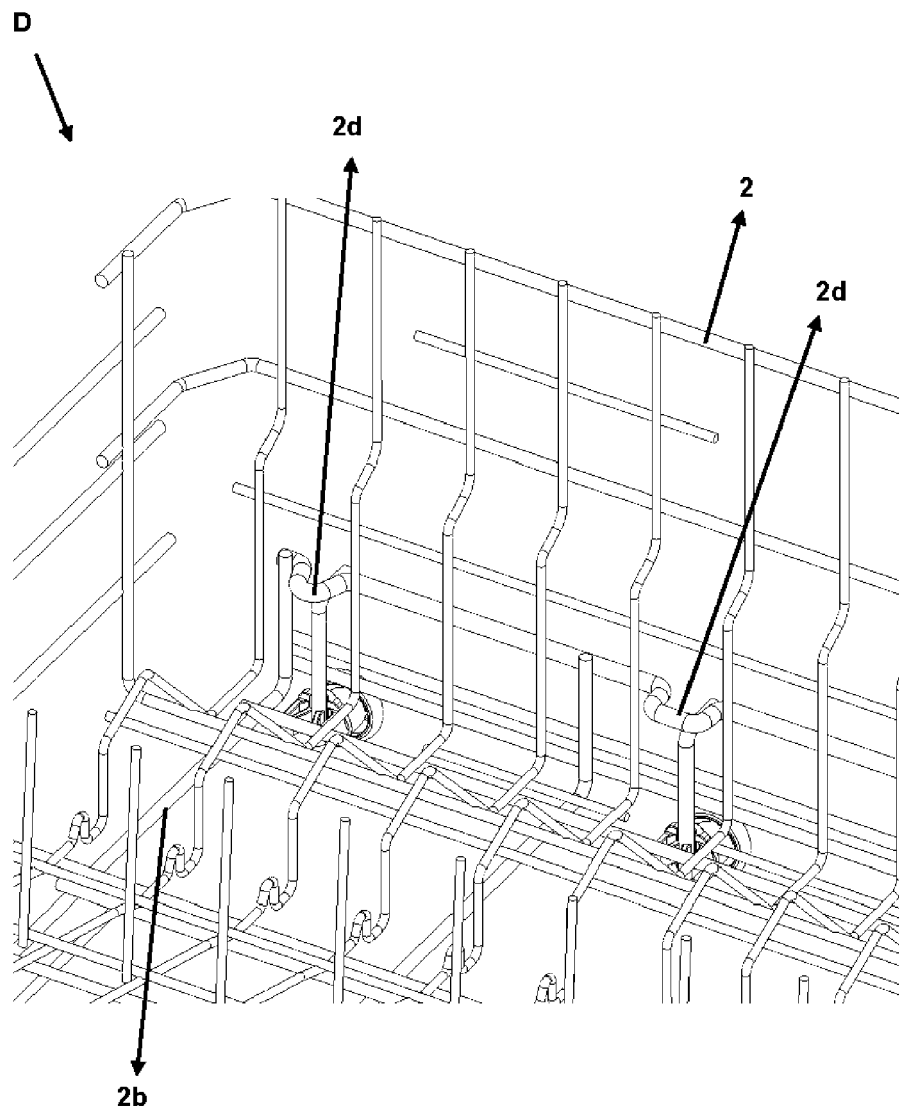


Figure 5



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Application Number
EP 16 16 5430

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