A COOLING DEVICE COMPRISING A BOTTLE HOLDER

The present invention relates to a cooling device (1) comprising a body (2), a rear wall (3) and two opposite side walls (4) that surround the body (2), more than one channel (5) that is situated on the side walls (4) and whereon the shelves are seated, and a holder (6) having two supports (7) extending along the side walls (4) of the body (2) and more than one wire (8) that are disposed on the supports (7) so as to extend over the opposite supports (7) and whereon the items are placed, and when the holder is not desired to be used, the wires are moved by the user and rested against the rear wall thus enabling the volume inside the cooling device to be used flexibly.

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A COOLING DEVICE COMPRISING A BOTTLE HOLDER

[0001] The present invention relates to a cooling device comprising a bottle holder that facilitates storing of bottles.

[0002] In cooling devices, holders positioned under the shelves are used for storing bottles. By means of the holders, the bottles are loaded horizontally into the cooling device and the volume inside the body is used effectively. But when the holder is not used, the volume between the two shelves gets narrower and items like tall pots become hard to load.

[0003] In the Patent Application No. WO20 12062882, a cooling device is disclosed, comprising a carrier where the wires are gathered by means of a channel by bearing against the rear wall.

[0004] In the Patent Application No. WO201 00761 78, a cooling device is disclosed comprising a carrier which can be folded in the vertical direction.

[0005] The aim of the present invention is the realization of a cooling device having a bottle holder that is prevented from occupying space inside the body when not in use.

[0006] The cooling device realized in order to attain the aim of the present invention, explicated in the first claim and the respective claims thereof, comprises a holder having supports, wires that can move over the supports by being connected to the supports and cavities on the supports wherein the wires are partially seated. In the cooling device of the present invention, when the holder is not desired to be used, the wires are moved by the user and rested against the rear wall thus enabling the volume inside the cooling device to be used flexibly.

[0007] In an embodiment of the present invention, the holder is placed into the channels where the shelves are mounted and the ends of the supports are bent to be firmly seated into the channel. Thus, a separate channel is not required for supporting the holder and the holder is enabled to be supported so as not to move.

[0008] In an embodiment of the present invention, the end portions of the wires are bent so as to completely surround the support. By means of this embodiment, connection methods like welding or intermediary connection
elements are not required for fastening the wires to the support, and production costs are decreased. The user can easily move the wires forwards - backwards on the support.

[0009] In an embodiment of the present invention, rollers are provided at the end portions of the wires. By means of the rollers, the wires can move on the supports more easily, thus the holder can be changed from the holding position to the park position and from the park position to the holding position conveniently.

[0010] In an embodiment of the present invention, the cavities arranged on the support are deep enough to enable the rollers to be almost entirely seated therein. Since the rollers are inserted into the cavities, the wires are prevented from moving while the user loads/unloads objects onto/from the wire.

[0011] In an embodiment of the present invention, the support comprises a barrier that prevents the rollers from moving upwards. By means of the barrier, the rollers are supported from above and the wires are allowed to move only in the horizontal direction.

[0012] In an embodiment of the present invention, the holder comprises a housing seated on the support and whereto the wires are attached. The housing prevents the vibrations that occur when the cooling device operates from affecting the holder.

[0013] In an embodiment of the present invention, the cavities on the housing are arranged consecutively. Thus, the user is provided with flexibility in placing the wires and even short bottles are allowed to be stored on the holder.

[0014] By means of the present invention, the holder is changed to the park position when not in use, thus minimizing the place occupied inside the body and enables the bottles to be supported in a balanced manner on the wires when changed to the holding position.

[0015] The cooling device realized in order to attain the aim of the present invention is illustrated in the attached figures, where:

[0016] Figure 1 - is the front schematic view of a cooling device.

[0017] Figure 2 - is the perspective view of a support related to an embodiment of the present invention.
[0018] Figure 3 - is the perspective view of a wire and cavities related to an embodiment of the present invention.

[0019] Figure 4 - is the partial perspective view of the holder related to an embodiment of the present invention.

[0020] Figure 5 - is the partial perspective view of the holder related to another embodiment of the present invention.

[0021] Figure 6 - is another partial perspective view of the holder related to yet another embodiment of the present invention.

[0022] The elements illustrated in the figures are numbered as follows:

1. Cooling device
2. Body
3. Rear wall
4. Side wall
5. Channel
6. Holder
7. Support
8. Wire
9. Cavity
10. Roller
11. Barrier
12. Housing

[0035] The cooling device (1) comprises a body (2), a rear wall (3) and two opposite side walls (4) that surround the body (2), more than one channel (5) that is situated on the side walls (4) and whereon the shelves are seated, and a holder (6) having two supports (7) seated in the channel (5) and more than one wire (8) whereon the objects are placed.

[0036] The user can store the bottles horizontally inside the body (2) thanks to the holder (6) disposed in the cooling device (1).

[0037] The cooling device (1) of the present invention comprises the holder (6) having
- the wires (8) that are connected to the supports (7) and that can be slid along the support (7),
- at least one cavity (9) that is arranged on the support (7) and wherein
each wire (8) is partially seated,

- a holding position wherein the wires (8) are seated in the cavities (9) to support the objects placed thereon from below,

- a park position wherein the wires (8) bear against the rear wall (3) by being slid over the supports (7).

[0038] Connected to the supports (7), the wires (8) can move forwards-backwards inside the body (2) along the supports (7). When the user desires to use the holder (6), he/she changes the holder (6) to the holding position by placing the wires (8) in the cavities (9) wherein they are partially seated and places the objects on the wires (8). When the holder (6) is not in use, the wires (8) are collected at the rear side by being moved towards the rear wall (3) over the supports (7) and the holder (6) is changed to the park position. By means of the holder (6) changed to the park position, the volume between two shelves is enabled to be used flexibly.

[0039] In an embodiment of the present invention, the cooling device (1) comprises the supports (7) that are seated into the channels (5) by bending their ends. By means of this embodiment, the user is enabled to mount the holder (6) to the desired channel (5) and furthermore the supports (7) are enabled to be fixed firmly to the channel (5) and the holder (6) is prevented from swaying while the user loads or unloads items.

[0040] In an embodiment of the present invention, the ends of the wires (8) are bent so as to almost surround the supports (7). By means of this embodiment, no intermediate member is required to be used to attach the wires (8) to the supports (7). The user can change between the park position and the holding position by driving/sliding the wires (8) along the support (7). Thus, the wires (8) are prevented from dislodging during loading/unloading.

[0041] In an embodiment of the present invention, the wires (8) comprise more than one roller (10) that is mounted to the end portions thereof and that can rotate on the support (7). By means of the rollers (10), the user is enabled to move the wires (8) more easily.
In an embodiment of the present invention, the cooling device (1) comprises the cavities (9), the depths of which are greater than the diameter of the roller (10). The wires (8) are enabled to remain stationary without swaying since the rollers (10) are seated completely into the cavities (9) while the holder (6) is in the holding position.

In an embodiment of the present invention, the supports (7) comprise a barrier (11) that enables the rollers (10) to remain on the support (7). By means of this embodiment, the wires (8) are prevented from moving upwards/downwards while sliding the wires (8) on the supports (7) by enabling the rollers (10) to remain between the support (7) and the barrier (11), thereby increasing consumer satisfaction.

In an embodiment of the present invention, the holder (6) comprises a housing (12) that is mounted on the support (7) and wherein the wires (8) are placed and move. By means of the housing (12), the wires (8) are prevented from being affected by the vibrations originating from the operation of the cooling device (1).

In an embodiment of the present invention, the holder (6) comprises the housing (12) that has the consecutively arranged cavities (9). By means of this embodiment, the wires (8) are positioned as desired and the bottles with different lengths are enabled to be stored.

In the cooling device (1) of the present invention, the user can use the volume inside the body (2) flexibly when the holder (6) is not used by changing the holder (6) to the park position. When the user desires to use the holder (6), he/she can change the holder (6) to the holding position by easily placing the wires (8) into the cavities (9).
Claims

1. A cooling device (1) comprising a body (2), a rear wall (3) and two opposite side walls (4) that surround the body (2), more than one channel (5) that is situated on the side walls (4) and wherein the shelves are seated, and a holder (6) having two supports (7) extending along the side walls (4) of the body (2) and more than one wire (8) that are disposed on the supports (7) so as to extend over the opposite supports (7) and wherein the items are placed, characterized in that the holder (6) having
   - the wires (8) that are connected to the supports (7) and that can be slid along the support (7),
   - at least one cavity (9) that is arranged on the support (7) and wherein each wire (8) is partially seated,
   - a holding position wherein the wires (8) are seated in the cavities (9) to support the items placed thereon from below,
   - a park position wherein the wires (8) bear against the rear wall (3) by being slid over the supports (7).

2. A cooling device (1) as in Claim 1, characterized in that the supports (7) that are seated in the channels (5) by bending their ends.

3. A cooling device (1) as in Claim 1, characterized in that the wires (8), the ends of which are bent to surround the supports (7).

4. A cooling device (1) as in any one of the Claims 1 or 2, characterized in that more than one roller (10) that is mounted to the end portions of the wires (8) and that can slide/rotate on the support (7).

5. A cooling device (1) as in Claim 4, characterized in that the cavity (9), the depth of which is greater than the diameter of the roller (10).

6. A cooling device (1) as in any of the Claims 4 or 5, characterized in that the support (7) having a barrier (11) that enables the rollers (10) to remain on the support (7).

7. A cooling device (1) as in any one of the Claims 1 or 2, characterized in that a housing (12) that is mounted on the support (7) and wherein the wires (8) are placed and move.

8. A cooling device (1) as in Claim 7, characterized in that the housing (12) having more than one cavity (9) arranged consecutively.
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<th>Publication date</th>
<th>Patent family member(s)</th>
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<tr>
<td>CN 102494509</td>
<td>13-06-2012</td>
<td>NON E</td>
<td></td>
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<tr>
<td>WO 2007054916</td>
<td>18-05-2007</td>
<td>NON E</td>
<td></td>
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<tr>
<td>CN 2562149</td>
<td>23-07-2003</td>
<td>NON E</td>
<td></td>
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<tr>
<td>WO 2008052977</td>
<td>08-05-2008</td>
<td>NON E</td>
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