

(19)



(11)

EP 1 769 201 B1

(12)

EUROPEAN PATENT SPECIFICATION

(45) Date of publication and mention
of the grant of the patent:

30.06.2010 Bulletin 2010/26

(21) Application number: **05760014.0**

(22) Date of filing: **11.07.2005**

(51) Int Cl.:

F25D 23/02 (2006.01)

(86) International application number:

PCT/IB2005/052297

(87) International publication number:

WO 2006/011081 (02.02.2006 Gazette 2006/05)

(54) **A COOLING DEVICE**

KÜHLVORRICHTUNG

DISPOSITIF DE REFROIDISSEMENT

(84) Designated Contracting States:

**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI
SK TR**

(30) Priority: **22.07.2004 TR 200401807**

(43) Date of publication of application:

04.04.2007 Bulletin 2007/14

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- **PATENT ABSTRACTS OF JAPAN vol. 2003, no.
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Description

[0001] This invention relates to a cooling device which has a bottle opener affixed on its door.

[0002] In order to drink beverages kept in the cooling device, one has to take them out and open their caps. In general, bottle openers, preferably made of metal, are manually used to remove the cap by placing the cap into the opener and applying pressure onto the cap. Since the bottle openers are kept in different places, their utilization is not practical for the user.

[0003] In the United States of America Patent no. US 1880985 a cooling device provided with a bottle opener is described wherein a part of the bottle opener is affixed at an angle to remove bottle caps.

[0004] In the International Patent Application no. W002072465 a bottle cap opener for a cabinet is described which is affixed to cooling device like appliances for opening bottle caps by means of its projections. US-A-2 031 701 discloses a cooling device according to the preamble of claim 1.

[0005] The object of this invention is to achieve a cooling device which incorporates a bottle-cap opener that can be hidden when necessary.

[0006] The cooling device designed to fulfill the object of the present invention is illustrated in the attached figures where:

[0007] Figure 1- is the perspective view of a cooling device.

[0008] Figure 2 - is the front view of a door handle mounted on a cooling device the bottle opener cover of which is in open position.

[0009] Figure 3 - is the perspective view of a door handle with bottle opener cover in open position.

[0010] Figure 4 - is the perspective view of a door handle.

[0011] Elements shown in figures are numbered as follows:

1. Cooling device
2. Door
3. Door handle
4. Bottle opener cover
5. Bottle opener housing
6. Bottle opener
7. Handle housing
8. Hinge
9. Fixer
10. Locking mechanism

[0012] The cooling device (1) comprising at least one door (2), wherein food and beverages to be cooled or their containers like jars, bottles etc. can be stored by opening and closing, at least one or more door handles (3) positioned on the door (2) which enables the user to grasp for opening or closing the door (2), a bottle opener (6) affixed on the door handle (3) for opening bottle caps, a bottle opener cover (4) which may be opened when

necessary to enable the use of the bottle opener (6) or be closed when not used to hide the bottle opener (6) complementing the easthetic appearance of the door handle (3), a hinge (8) that fixes the bottle opener cover (4) and the door handle (3) to each other and enables the opening closing movement of bottle opener cover (4), and a locking mechanism (10) that provides fastening and unfastening of the door handle (3) and the bottle opener cover (4) .

[0013] The door (2) comprises one or more door handle housings (7) on which the handle (3) is fixed.

[0014] The door handle(3) comprises a bottle opener housing (5) and a hinge (8) where the bottle opener (6) is placed and a fixer (9) which affixes the door handle (3) and the bottle opener (6) to the door (2).

[0015] In the preferred embodiment of the present invention, the locking mechanism (10) comprises one or more than one latch and latch housing of matching form and build. Bottle opener cover (4) is affixed to the door handle (3) by means of laches and latch housings, preferably in the form of snap-fit joints.

[0016] In the preferred embodiment of present invention a curved metal plate is used as hinge (8).

[0017] In the preferred embodiment of the present invention, a "U" shaped bottle opener (6) is used. The bottle cap, placed at an angle in the bottle opener (6) is squeezed into projections of the "U" shaped form, opening when bottle is pulled.

[0018] In yet another embodiment of the present invention, door handle (3) is assembled in the door handle housing (7), a hinge (8) preferably riveted to the bottle opener cover (4), and the bottle opener (6) are placed in this order on the bottle opener housing (5) after which it is assembled on the door (2) by a fastener (9), preferably a screw.

[0019] When it is attempted to open a bottle with the help of the present embodiment which is the object of this invention, the user first pulls up the bottle opener cover (4) towards himself/herself to expose the bottle opener (6), and removes the bottle cap by means of affixing the bottle cap to bottle opener (6). After opening the bottle cap, the user closes the bottle opener cover (4) by pushing it back to its place.

[0020] In another embodiment of the present invention, the bottle opener cover (4) is made of a transparent material which enables the bottle opener (4) to be seen from the outside.

[0021] With the embodiment of the present invention, the caps of bottles in the cooling device (1) or in the environments, where the cooling device is placed can be opened without the need for any additional bottle opener and keeping a bottle opener as a separate tool is not needed.

Claims

1. A cooling device (1) comprising at least one door (2)

where food and beverages or their containers like bottles and jars are placed by opening and closing for cooling, one or more than one door handles (3) on the door (2) to enable the user to grasp and to open and close the door (2), and **characterized by** a bottle opener (6) on the door handle (3) to enable the opening of bottle caps.

2. A cooling device as in Claim 1, **characterized by** a bottle opener cover (4) that may be opened to use the bottle opener (6) or closed to hide the bottle opener (6) when not used.
3. A cooling device as in Claim 1 and Claim 2, **characterized by** a hinge (8) that attaches the door handle (3) and bottle opener cover (4) to each other and enables the bottle opener cover (4) to open and to close, and a locking mechanism (10) that fastens and unfastens the door handle (3) and the bottle opener cover (4) .
4. A cooling device as in Claims 1 to 3, **characterized by** a door handle (3) comprising a hinge (8) and a bottle opener housing (5) where the bottle opener (6) is placed, a fixer (9), which enables the fixing of bottle opener (6) and door handle (3) assembled into the bottle opener housing (5) to be attached to the door (2).

Patentansprüche

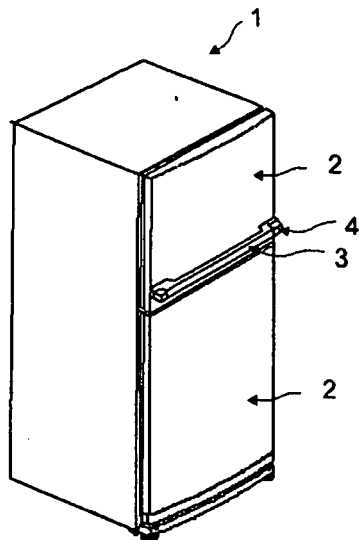
1. Kühlvorrichtung (1) mit wenigstens einer Tür (2), in die durch Öffnen und Schließen derselben Lebensmittel und Getränke oder ihre Behälter wie z. B. Flaschen und Dosen zum Kühlen gegeben werden, einem oder mehreren Türgriffen (3) an der Tür (2), an denen der Benutzer die Tür (2) zum Öffnen und Schließen ergreifen kann, und **gekennzeichnet durch** einen Flaschenöffner (6) am Türgriff (3), der das Öffnen von Flaschendeckeln ermöglicht.
2. Kühlvorrichtung nach Anspruch 1, **gekennzeichnet durch** eine Flaschenöffnerabdeckung (4), die geöffnet werden kann, um den Flaschenöffner (6) zu benutzen, oder geschlossen werden kann, um den Flaschenöffner (6) zu verbergen wenn er nicht benutzt wird.
3. Kühlvorrichtung nach Anspruch 1 und 2, **gekennzeichnet durch** ein Gelenk (8), das den Türgriff (3) und die Flaschenöffnerabdeckung (4) aneinander befestigt, und das es erlaubt, die Flaschenöffnerabdeckung (4) zu öffnen und zu schließen, und einen Verriegelungsmechanismus (10), der den Türgriff (3) und die Flaschenöffnerabdeckung (4) verriegelt und entriegelt.

4. Kühlvorrichtung nach den Ansprüchen 1 bis 3, **dadurch gekennzeichnet, dass** ein Türgriff (3) ein Gelenk (8) und ein Flaschenöffnergehäuse (5) umfasst, in dem der Flaschenöffner (6) untergebracht ist, eine Befestigung (9), die das Befestigen des Flaschenöffners (6) und des Türgriffs (3), die in dem Flaschenöffnergehäuse (5) montiert sind, an der Tür (2) ermöglicht.

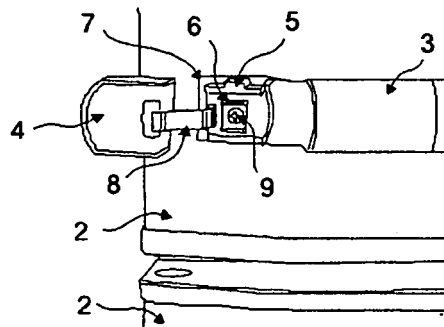
Revendications

1. Un dispositif de refroidissement (1) comprenant au moins une porte (2) où la nourriture et les boissons ou leurs contenants comme des bouteilles et des pots sont placés pour le refroidissement par l'ouverture et de fermeture, une ou plusieurs poignées de porte (3) sur la porte (2) pour permettre à l'utilisateur de saisir et d'ouvrir et de fermer la porte (2), et **caractérisé par** un ouvre-bouteille (6) sur la poignée de porte (3) pour permettre l'ouverture des capsules de bouteille.
2. Un dispositif de refroidissement selon la Revendication 1, **caractérisé par** un couvercle ouvre-bouteille (4) qui peut être ouvert à l'utilisation de l'ouvre-bouteille (6) ou fermé pour cacher l'ouvre-bouteille (6) lorsqu'il n'est pas utilisé.
3. Un dispositif de refroidissement selon la Revendication 1 et la Revendication 2, **caractérisé par** une charnière (8) qui fixe la poignée de porte (3) et le couvercle ouvre-bouteille (4) l'un à l'autre et permet à la couverture ouvre-bouteille (4) d'ouvrir et de fermer, et un mécanisme de verrouillage (10) qui retient et détache la poignée de porte (3) et le couvercle ouvre-bouteille (4).
4. Un dispositif de refroidissement selon les revendications de 1 à 3, **caractérisé par** une poignée de porte (3) comprenant une charnière (8) et un boîtier ouvre-bouteille (5) où l'ouvre-bouteille (6) est placé, un fixateur (9), qui permet la fixation de l'ouvre-bouteille (6) et la poignée de porte (3) montée dans le boîtier ouvre-bouteille (5) pour être fixée à la porte (2).

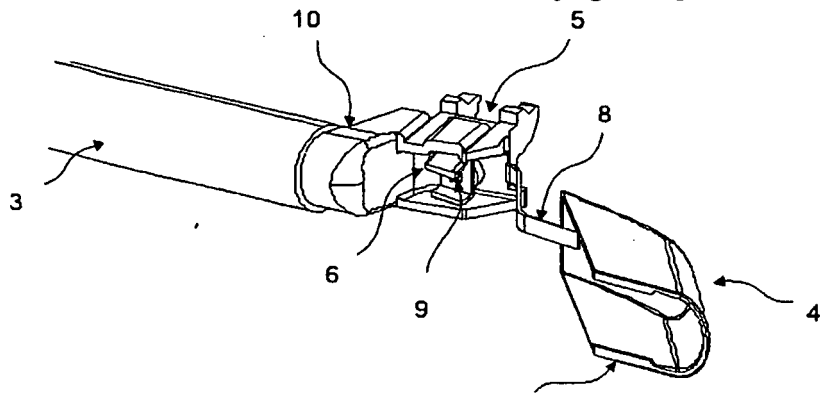
[Fig. 001]



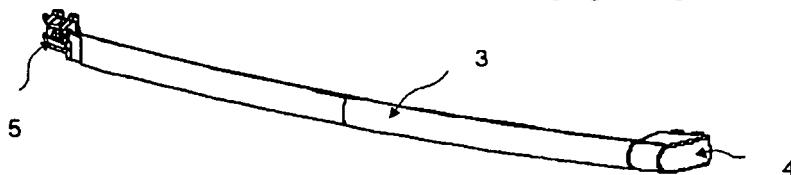
[Fig. 002]



[Fig. 003]



[Fig. 004]



REFERENCES CITED IN THE DESCRIPTION

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