



PORTABLE CONTAINER

BACKGROUND OF THE INVENTION

5 Field of the Invention

[0001]

The present invention relates to a portable container of sweets, medicines, granules, and powder, and in detail relates to a portable small container consisting of a container body and a lid body, in which taking contents in and out is made easy by making opening
10 and closing of the lid body possible only by pressing the surface of the lid body with a finger tip, and that is convenient for carrying.

Description of the Related Art

[0002]

15 Various conventional small containers for sweets have been known. They are a type of container for storing and carrying granules such as candies, mints, medicines or other small articles.

However, many of them are not a container in which the lid body opens and closes with a hinge and stored articles can be easily taken out with one hand when carrying by
20 opening and closing the lid body with a hinge in many of them, or it is inconvenient because it becomes bulky in the case of carrying in a pocket.

Moreover, the art related to the present invention is disclosed in the following document.

[Patent Document 1] Registered Utility Model No. 3047078

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SUMMARY OF THE INVENTION

[0003]



The objective or challenge of the present invention is to provide a portable small container that can be opened and closed easily with one hand and that is not bulky when being stored or worn in clothes when carrying.

[0004]

5 The present invention solves the above-described problems by providing a portable container equipped with a container body and a lid body that can be opened and closed by turning the lid body relative to the container body via a rotating mechanism, in which the above-described container body has a bottom part and a pair of sidewalls raised from the bottom part and a pair of end walls, the above-described lid body has a pair of sidewalls
10 and an end wall opposing to a surface part, the above-described rotating mechanism is configured with an axis formed in the above-described pair of sidewalls of the lid body and a bearing formed in the above-described pair of sidewalls of the container body, an opening mechanism is formed in the lid body, at the same time a hooking mechanism fixing the lid body in the closed position is provided in a position separated from the
15 above-described rotating mechanism, the above-described opening mechanism is configured with a pressing part formed on a rear end surface of the lid body and an oblique side part formed on the pair of sidewalls, at the same time a discharge port exposed at the opening of the lid body is formed in the end wall of the container body, and discharging of contents is made possible by pressing the above-described pressing
20 part, releasing the engagement between the lid body and the container body due to the hooking mechanism, turning the lid body, and exposing the above-described discharge port.

[0005]

Further, in the above-described portable container, the axis in the lid body is
25 configured with a projection projecting in the direction of the sidewall of the container body, the bearing in the container body is configured with a recessed part formed in the sidewall surface of the container body, the hooking mechanism provided in a position

separated from the rotating mechanism is configured with a projection formed on the pair of sidewalls of the lid body and projecting in the direction of the sidewall of the container body and a hole part formed on the sidewall surface of the container body and in which the projection is engaged.

5 [0006]

Furthermore, in the portable container described above, a shock absorbing means is intervened between the lid body and an opening face of the container body, and the shock absorbing means engaged with the opening face of the container body may be configured by having a pair of sidewall and end wall opposing to the surface part.

10 [0007]

Because the opening and closing of the lid body can be performed with only the fingers of one hand in the present invention, contents can be taken out easily anytime anywhere including when driving a vehicle. Further, because it can be made into a thin and a curved shape on the whole, it is not bulky when storing in a pocket..

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Embodiments

[0008]

Next, one embodiment of the present invention is explained with figures. Fig. 1 is a perspective view of the portable container with the lid body closed. In the figure, 1 is a portable container formed with an aluminum thin plate, 2 is a container body, and 3 is a lid body engaged with the container body. Further, 4 is a rotating mechanism, 5 is a hooking mechanism, and these will be described later.

[0009]

Fig. 2 is a perspective view of the portable container 1 with lid body 3 open. The lid body 3 opens by a pressing force due to a finger tip, etc. to activate the opening mechanism. The above-described opening mechanism is configured with a pressing part 3a located on a rear end surface of the lid body 3 and an oblique side part 3b formed on a

rear end of the pair of sidewalls 3c of the lid body 3.

Then, when the above-described pressing part 3a is pressed with a finger tip, etc., a hook of the lid body 3 and the container body 2 is opened due to the hooking mechanism 5, an end part of the lid body 3 (left end in the figure) is turned upward via the rotating mechanism 4, a discharge port 2a formed at the end wall that is a front side of the container body 2 is exposed, and contents are taken out from the discharge port 2a.

[0010]

Fig. 3 is a perspective view of the container body 2 and a shock absorbing means covering the top face of the opening part of the container body 2, 6 in Figure 3(a) is the shock absorbing means covering the top face of the opening part, and the shock absorbing means 6 is formed with a thin plastic plate in which a rear end part is formed on the slope, having a rectangular parallelepiped shape with a lower part opening, and engaging with the inside of the container body 2 as shown in Fig. 3 (b). The slope of the rear end part is for the purpose of avoiding trouble from occurring when opening and closing the lid body 3. Moreover, 2b is a hole part formed on a pair of sidewalls 2d of the container body 2 in Fig. 3 (a), and the hooking mechanism 5 is configured as described later by engaging a projection formed on the side wall 3c of the lid body 3 with the hole part 2b. Furthermore, 2c is a recessed part formed on a pair of sidewalls 22 of the container body 2, and the rotating mechanism 4 is configured as described later by engaging a projection formed on the side wall 3c of the lid body 3 with the recessed part 2c.

[0011]

Fig. 4 is a perspective view of the container body 2. The container body 2 has a bottom part 21, a pair of sidewalls 22 raised from the bottom part 21, and a pair of end walls 23. An oblique side part 22a is formed at the top end of a rear part of the sidewalls 22 so that its backside does not collide when the lid body 3 opens.

[0012]

Fig. 5 is a side view of the portable container 1, Fig. 5 (a) is a side view in a

condition when the lid body 3 is closed, and Fig. 5 (b) is a side view in a condition when the lid body 3 is opened. In Fig. 5 (a), 31 is a projection formed in the front (left in the figure) of the pair of sidewalls of the lid body 3 and projecting in the direction of the sidewall of the container body inside, and in the same way 32 is a projection formed in the rear (right in the figure) of the pair of sidewalls of the lid body 3 and projecting in the direction of the sidewall of the container body inside. Then, in the sidewalls of the lid body 3, a hole part 2b is formed in a position corresponding to the projection 31 as shown in Fig. 5 (b), and a recessed part (not shown in the figure) is formed in a position corresponding to the projection 32. The projection 31 is engaged with the hole part 2b and the above-described hooking mechanism 5 is configured, and the projection 32 is engaged with the above-described recessed part in the sidewalls of the lid body 3 so as to be able to rotate and the rotating mechanism 4 is configured.

[0013]

Next, an action of the present embodiment is explained referring mainly to Fig. 5 based on the above-described configuration.

In Fig. 5 (a), a finger tip is placed against the pressing part 3a of the opening mechanism in the rear end part (right in the figure) of the surface of the lid body 3, and this part is pressed. As a result, the engagement between the hole part 2 b of the container body 2 and 31 of the lid body 3 is released in the above-described hooking mechanism 5 first, the lid body 3 rotates around the projection 32 as an axis in the rotating mechanism 4 and the recessed part 2c as a bearing, the front end part (left in the figure) of the lid body 3 raises, the discharge port 2a appears as shown in Fig. 5 (b), and taking contents out becomes possible. The rotation of the lid body 3 can be performed smoothly because the oblique side part 22a and 3b of the opening mechanism 4 exist. In order to close the lid body 3, the front end part of the lid body 3 needs to be pressed downward so that the lid body 3 is engaged to the container body 2. At this time, the projection 31 of the lid body 3 is engaged to the hole part 2b of the container body 2, and

the lid body 3 is hooked to the container body 2.

[0014]

In the above-described embodiments, an embodiment is described in which the material of the container body 2 and the lid body 3 is metal. However, it should be appreciated that a material such as a resin and paper can be used.

BRIEF DESCRIPTION OF THE DRAWINGS

[0015]

Fig. 1 is a perspective view of the portable container with the lid body closed.

10 Fig. 2 is a perspective view of the portable container 1 with lid body 3 open.

Fig. 3 is a perspective view of the container body 2 and a shock absorbing means covering a top face of the opening part of the container body 2.

Fig. 4 is a perspective view of the container body 2.

Fig. 5 is a side view of the portable container 1, Fig. 5 (a) is a side view in a condition when the lid body 3 is closed, and Fig. 5 (b) is a side view of the lid body 3 when it is open.

Explanation of the Reference Numerals

[0016]

20 1.....Portable Container

2.....Container Body

2a.....Discharge Port

2b.....Hole Part

2c.....Recessed Part

25 3.....Lid Body

3a.....Pressing Part

4.....Rotating Mechanism

5.....Hooking Mechanism

31, 32...Projection

What is claimed is:

1. A portable container comprising;
 - a container body; and
 - a lid body that can be opened and closed by turning the lid body relative to

5 the container body via a rotating mechanism and in which the opening and closing of the container body by the lid body is performed by sliding the container body and the lid body relative to each other; the portable container wherein the container body has a bottom part and a pair of sidewalls raised from the bottom part and a pair of end walls, the lid body has a pair of sidewalls and an end wall opposing to a surface part, the rotating

10 mechanism is configured with an axis formed in the pair of sidewalls of the lid body and a bearing formed in the pair of sidewalls of the container body, an opening mechanism is formed in the lid body, at the same time a hooking mechanism fixing the lid body in the closed position is provided in a position separated from the rotating mechanism, the opening mechanism is configured with a pressing part formed on a rear end surface of the

15 lid body and an oblique side part formed on the pair of sidewalls of the lid body, at the same time a discharge port exposed at the opening of the lid body is formed in the end wall of the container body, and discharging of contents is made possible by pressing the pressing part, releasing the engagement between the lid body and the container body due to the hooking mechanism, turning the lid body, and exposing the discharge port.
- 20 2. The portable container according to claim 1, wherein the axis in the lid body is configured with a projection projecting in the direction of the sidewall of the container body, the bearing in the container body is configured with a recessed part formed in the sidewall surface of the container body, the hooking mechanism provided in a position separated from the rotating mechanism is configured with a projection formed on the pair
- 25 of sidewalls of the lid body and projecting in the direction of the sidewall of the container body and a hole part formed on the sidewall surface of the container body and in which the projection is engaged.

3. The portable container according to either claim 1 or 2, wherein a shock absorbing means is intervened between the lid body and an opening face of the container body, and the shock absorbing means engaged with the opening face of the container body is configured by having a pair of sidewalls and an end wall opposing to the surface
5 part.