



159159

PAPER-MADE FOOD CONTAINER STRUCTURE

FIELD OF THE INVENTION

The present invention relates to a paper-made food container having a hole defined through the container and walls extend around the hole for supporting a sub-container.

BACKGROUND OF THE INVENTION

A conventional paper-made food container 70 is disclosed in Fig. 15 and generally includes a main container 71 which includes four sidewalls and a cover 72 is connected to one of the sidewalls of the main container 71. A connection plate 73 is connected to one of the sidewalls of the main container 71. A sub-container 74 includes three partitions 75 and is connected to the connection plate 73. The cover 72 is sized to cover the main container 71 and the sub-container 74. The sub-container 74 and the main container 71 is connected by the connection plate 73 which has only a very limited area so that if the user supports on either of the sub-container 74 and the main container 71, the other part will collapse due to the weight of the food therein. The other paper-made food container 80 is disclosed in Fig. 16 and includes a main container which is composed of two partitions 82 and 83, and a cover 81 which is sized to cover the main container. A sub-container 84 is put in the partition 82 so as to define three small partitions in the partition 82. The sub-container 84 needs to be manufactured in separate and cannot avoid mixture of liquid contents in the two partitions on two sides of the sub-container 84 from the gap between the bottom of the sub-container 84 and the inside of the partition 82.



G00002

The present invention intends to provide a paper-made food container wherein the sub-container is engaged with a hole in the main container and supported on support walls extending from the inside of the main container.

5

SUMMARY OF THE INVENTION

The present invention relates to a paper-made food container which comprises a main container composed of a first board which includes four first folding portions at four corners of the first board and the four first folding portions are folded to form sidewalls of the main container. Two separation portions with a folding line located there between are located at the first board and each separation portion has a second folding portion on two ends thereof. The two separation portions are folded upright by folding the folding line and the second folding portions. The main container is defined into a first partition and a second partition by the separation portions.

15 A hole is defined through the second partition of the first board and located between the separation portion and the sidewall located opposite to the separation portion in the second partition. Two slits are defined in the separation portion and the sidewall located opposite to the separation portion in the second partition, and in communication with the hole. Two third folding portions are respectively defined in a part split from the separation portion and the sidewall located opposite to the separation portion in the second partition by the slits. The two third folding portions are folded to form two support walls on two sides of the hole.

A sub-container includes a second board which includes four side plates and four fourth folding portions are located at four corners of the second board and connected between the four side plates. The four fourth folding portions are folded to form four sidewalls of the sub-container. Two of the side plates of the sub-container each have a hooking plate. The sub-container is engaged with the hole and the two hooking plates are hooked on the two support walls in the second partition.

The present invention will become more obvious from the following description when taken in connection with the accompanying drawings which show, for purposes of illustration only, a preferred embodiment in accordance with the present invention.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is top view of the main container of the food container of the present invention;

Fig. 1 is top view of the sub-container of the food container of the present invention;

Fig. 3 is an exploded view to show the main container and two sub-containers;

Fig. 4 shows a sub-container is engaged with the hole in the second partition of the main container;

Fig. 5 shows a cover is connected to the main container;

Fig. 6 is an exploded view to show the main container with the cover and two sub-containers;

Fig. 7 shows a sub-container is engaged with the hole in the second partition of the main container having the cover;

Fig. 8 is top view of the main container of another embodiment of the food container of the present invention;

5 Fig. 9 is top view of the sub-container used to the food container as shown in Fig. 8;

Fig. 10 is an exploded view to show the main container and two sub-containers of the embodiment in Fig. 8;

Fig. 11 shows the one sub-container is engaged with the hole in the
10 second partition and the other sub-container is engaged with the first partition;

Fig. 12 shows a cover is connected to the main container as shown in Fig. 8;

Fig. 13 is an exploded view to show the main container as in Fig. 8 with the cover and two sub-containers;

15 Fig. 14 shows the two sub-containers are engaged with the first and second partitions of the main container having the cover;

Fig. 15 shows a first embodiment of the conventional food container, and

Fig. 16 shows a second embodiment of the conventional food
20 container.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to Figs. 1 to 3, the paper-made food container of the present invention comprises a main container 10 having a first board 11 which includes four first folding portions 110 at four corners of the first board 11.

The four first folding portions 110 are folded to form sidewalls 15 of the main container 10. Two separation portions 12 are defined in the main container 10 and a folding line is located between the two separation portions 12. Each separation portion 12 has a second folding portion 120 on two ends thereof
5 and a connection plate 13 extends from each of the second folding portions 12. The two separation portions 12 are folded upright by folding the folding line therebetween and the second folding portions 120 to form a central separation wall 14 as shown in Fig. 3. The connection plates 13 are glued in pairs such that the main container 10 is defined into a first partition 101 and a second
10 partition 102 by the separation portions 12.

A hole 17 is defined through the second partition 102 of the first board 11 and located between the separation portion 12 and the sidewall 15 located opposite to the separation portion 12 in the second partition 102. The separation portion 12 and the sidewall 15 located opposite to the separation
15 portion 12 in the second partition 102 each have two slits 16 which are in communication with the hole 17. Two third folding portions 160 are respectively defined in a part split from the separation portion 12 and the sidewall 15 located opposite to the separation portion 12 in the second partition 102 by the slits 16. The two third folding portions 160 are folded to
20 form two support walls 18 on two sides of the hole 17.

Two sub-containers 20 each include a second board 21 which includes four side plates 22 and four fourth folding portions 220 located at four corners of the second board 21 and connected between the four side plates 22. The four fourth folding portions 220 are folded to form four

sidewalls of the sub-container 20 and define a space 24. Each of the side plates 22 of each sub-container 20 has a hooking plate 23. Referring to Fig. 4, the sub-container 20 is engaged with the hole 17 and two hooking plates 23 are hooked on the two support walls 18 in the second partition 102, and one
5 of the hooking plates 23 is hooked on the central separation wall 14.

Referring to Fig. 1 again, a cutting line 16' is defined through the first partition 101 of the first board 11 and two ends of the cutting line 16' extend to the separation portion 12 and the sidewall 15 located opposite to the separation portion 12 in the first partition 101. Two fifth folding portions 160'
10 are respectively defined in a part split from the separation portion 12 and the sidewall 15 located opposite to the separation portion 12 in the first partition 101 by the cutting line 16'. The two third folding portions 160 are folded to form a support wall. The other sub-container 20 can be put in the first partition 101 and the two hooking plates 23 can be hooked on the sidewall 15
15 connected to the separation portion 12 and the support wall in the first partition 101.

Figs. 5 to 7 show a cover 30 is integrally connected to a side of the food container and parallel to the separation portions 12. The cover 30 is sized to cover the first and second partitions 101, 102.

20 Figs. 8 to 10 show another embodiment of the present invention wherein the main container 40 having a first board 41 which includes four first folding portions 410 at four corners of the first board 41. The four first folding portions 410 are folded to form sidewalls 45 of the main container 40. Two separation portions 42 are defined in the main container 40 and a folding

line is located between the two separation portions 42. Each separation portion 42 has a second folding portion 420 on two ends thereof and a connection plate 43 extends from each of the second folding portions 42. The two separation portions 42 are folded upright by folding the folding line
5 therebetween and the second folding portions 420 to form a central separation wall 44 as shown in Fig. 10. The connection plates 43 are glued in pairs such that the main container 40 is defined into a first partition 401 and a second partition 402 by the separation portions 42.

A hole 47 is defined through the second partition 402 of the first
10 board 41 and located between the separation portion 42 and the sidewall 45 located opposite to the separation portion 42 in the second partition 402. The separation portion 42 and the sidewall 45 located opposite to the separation portion 42 in the second partition 402 each have two slits 46 which are in communication with the hole 47. Two third folding portions 460 are
15 respectively defined in a part split from the separation portion 42 and the sidewall 45 located opposite to the separation portion 42 in the second partition 402 by the slits 46. The two third folding portions 460 are folded to form two support walls 48 on two sides of the hole 47.

Two sub-containers 50 each include a second board 51 which
20 includes four side plates 52 and four fourth folding portions 520 located at four corners of the second board 51 and connected between the four side plates 52. The four fourth folding portions 520 are folded to form four sidewalls of the sub-container 50 and define a space 54. Each of the side plates 52 of each sub-container 50 has a hooking plate 53. Referring to Fig. 11,

the sub-container 50 is engaged with the hole 47 and two hooking plates 53 are hooked on the two support walls 48 in the second partition 402, and one of the hooking plates 53 is hooked on the central separation wall 44.

Referring to Fig. 8 again, a cutting line 46' is defined through the first partition 401 of the first board 41 and two ends of the cutting line 46' extend to the separation portion 42 and the sidewall 45 located opposite to the separation portion 42 in the first partition 401. Two fifth folding portions 460' are respectively defined in a part split from the separation portion 42 and the sidewall 45 located opposite to the separation portion 42 in the first partition 401 by the cutting line 46'. The two third folding portions 460 are folded to form a support wall. The other sub-container 50 can be put in the first partition 401 and the two hooking plates 53 can be hooked on the sidewall 45 connected to the separation portion 42 and the support wall in the first partition 401.

Figs. 12 to 14 show a cover 60 is integrally connected to a side of the food container and perpendicular to the central separation wall 44. The cover 30 is sized to cover the first and second partitions 401, 402.

While we have shown and described the embodiment in accordance with the present invention, it should be clear to those skilled in the art that further embodiments may be made without departing from the scope of the present invention.

WHAT IS CLAIMED IS:

1. A paper-made food container comprising:

a main container having a first board which includes four first folding portions at four corners of the first board, the four first folding portions being folded to form sidewalls of the main container, two separation portions defined in the main container and a folding line located between the two separation portions, each separation portion having a second folding portion on two ends thereof and a connection plate extending from each of the second folding portions, the two separation portions being folded upright by folding the folding line there between and the second folding portions, the connection plates being glued in pairs, the main container being defined into a first partition and a second partition by the separation portions;

a hole defined through the second partition of the first board and located between the separation portion and the sidewall located opposite to the separation portion in the second partition, the separation portion and the sidewall located opposite to the separation portion in the second partition having two slits which are in communication with the hole, two third folding portions respectively defined in a part split from the separation portion and the sidewall located opposite to the separation portion in the second partition by the slits, the two third folding portions being folded to form two support walls on two sides of the hole, and

a sub-container including a second board which includes four side plates and four fourth folding portions located at four corners of the second board and connected between the four side plates, the four fourth folding

portions being folded to form four sidewalls of the sub-container, two of the side plates of the sub-container each having a hooking plate, the sub-container being engaged with the hole and the two hooking plates being hooked on the two support walls in the second partition.

5 2. The container as claimed in claim 1, wherein a cutting line is defined through the first partition of the first board and extends to the separation portion and the sidewall located opposite to the separation portion in the first partition, two fifth folding portions respectively defined in a part split from the separation portion and the sidewall located opposite to the
10 separation portion in the first partition by the cutting line, the two third folding portions being folded to form a support wall, another sub-container including a second board which includes four side plates and four fourth folding portions located at four corners of the second board and connected between the four side plates, the four fourth folding portions being folded to
15 form four sidewalls of the sub-container, two of the side plates of the sub-container each having a hooking plate, the sub-container being put in the first partition and the two hooking plates being hooked on the sidewall connected to the separation portion and the support wall in the first partition.

 3. The container claimed in claim 1, wherein a cover is integrally
20 connected to a side of the food container and parallel to the separation portions.

 4. The container claimed in claim 1, wherein a cover is integrally connected to a side of the food container and perpendicular to the separation portions.