United States Patent [19]

Skau

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[54] **CONTAINER BOX CLOSURE**

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[52] **U.S. Cl.** ..... **229/7 SC;** 222/561

[51] **Int. Cl.** **B65d 47/00;** B65d 83/00

[58] **Field of Search** ..... 229/11, 9, 7 R, 7 SC; 222/561

[56] **References Cited**

UNITED STATES PATENTS

2,386,877	10/1945	Neilson, Jr. et al.	229/7 R
2,781,156	2/1957	Wallo	229/7 R X
2,846,130	8/1958	Foote	229/7 SC
3,110,436	11/1963	Wagner	229/7 SC X
3,179,314	4/1965	Hodgson et al.	222/561
3,180,552	4/1965	Atkinson, Jr.	229/7 R

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[57] **ABSTRACT**

A container box closure device which may be fitted into side of a conventional container box to serve as a closable orifice. The closure unit is composed of two rectangular-shaped sections joined at one edge which grip the side of a box, when the device is slipped through a slot in the top of a box side about the box side. A slideable door opening is mounted on the exterior of the device to permit the box contents to be poured through a hole cut in the box side, when the door is in the open position.

1 Claim, 4 Drawing Figures

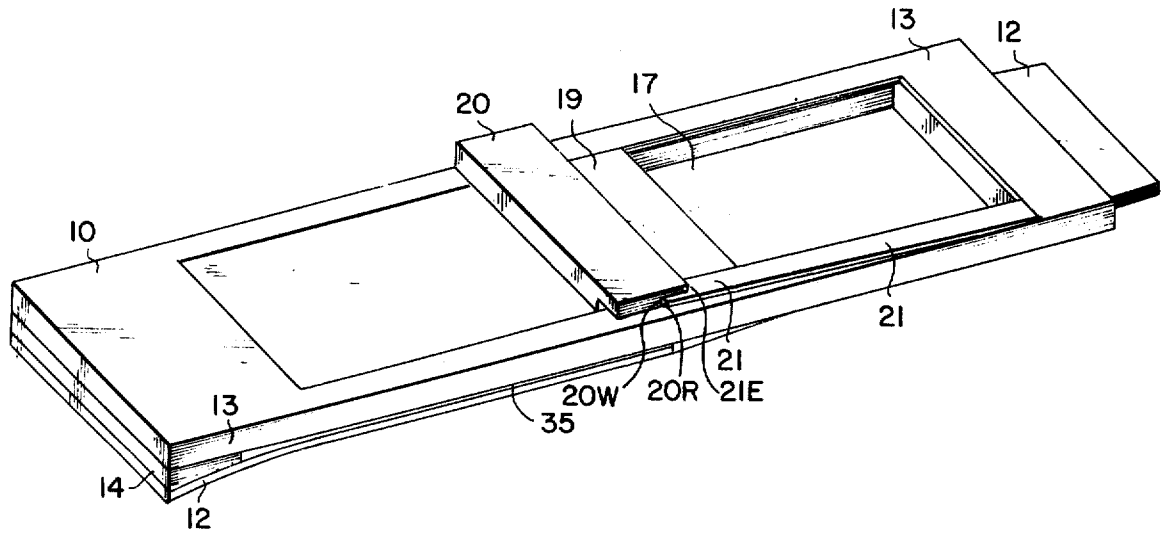


FIG. 1

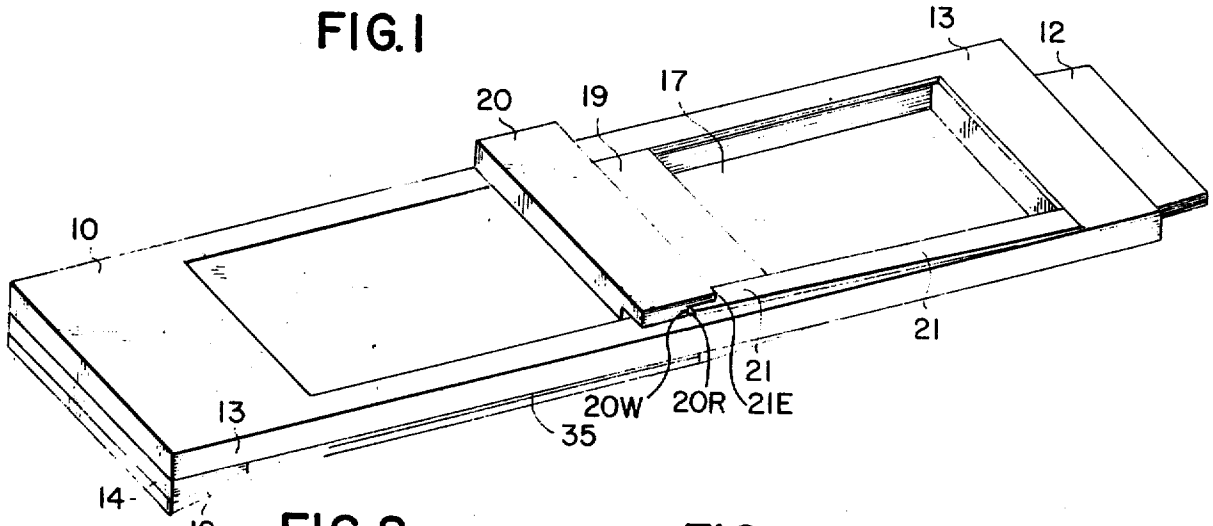


FIG. 2

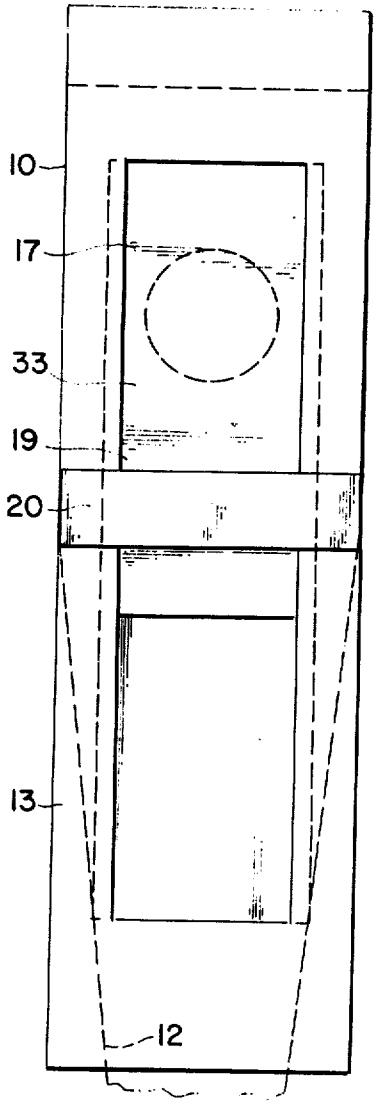


FIG. 3

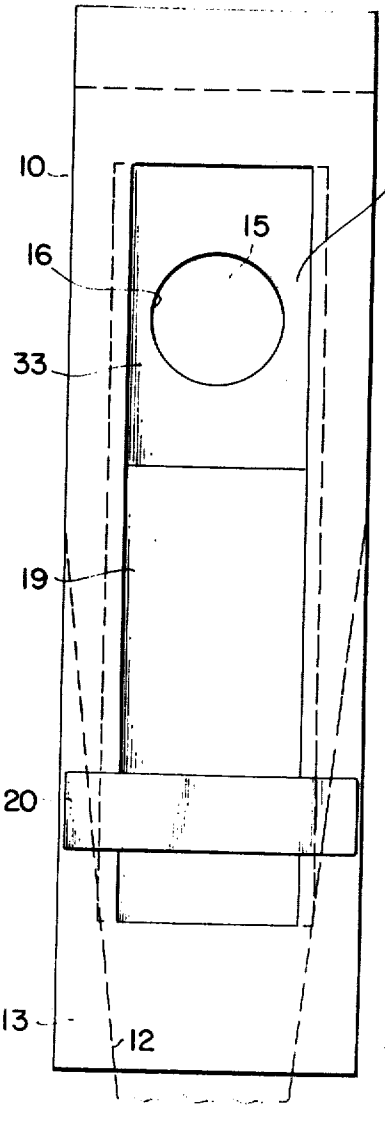
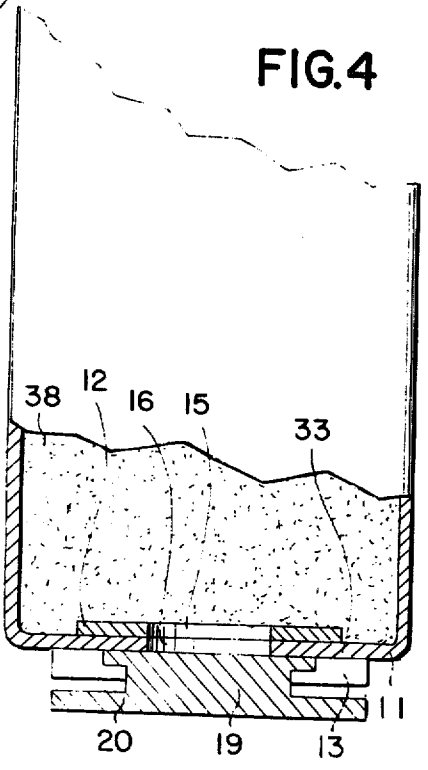


FIG. 4



CONTAINER BOX CLOSURE

SUMMARY OF THE INVENTION

My invention relates to a reusable box closure device which may be inserted through a slot in the side of the box so as to act as a closable orifice of the box.

The device is in the form of a rectangular shape and incorporates two sections that fit about the sides of a box into which the device is inserted. A slideable door serves as an opening for pouring the contents of the box through a hole cut in the side of the box.

An advantage of my device is that the one unit may be employed with conventional containers of various sizes.

BRIEF DESCRIPTION OF THE DRAWING

The objects and features of the invention may be understood with reference to the following detailed description of an illustrative embodiment of the invention, taken together with the accompanying drawings in which:

FIG. 1 illustrates a perspective view of the invention;

FIG. 2 illustrates a plan view of the invention in a closed position;

FIG. 3 illustrates a plan view of the invention in an opened position; and

FIG. 4 illustrates a top sectional view of the invention fastened to a container.

DESCRIPTION OF THE PREFERRED EMBODIMENT

Turning how descriptively to the drawings, in which similar reference characters denote similar elements throughout the several views, FIGS. 1–4 show a box closure device **10** may be inserted about the side **33** of a conventional cardboard box **11** through a slot cut in the top side edge of a box **11**. The closure device **10** is composed of two rectangular pieces **12** and **13** held together at one end by a wedged shaped piece **14** at one end of the rectangular pieces **12** and **13** such that a gap **35** exists between the adjacent surfaces of the two rectangular pieces **12** and **13**.

The device **10** is inserted through a slot in the side **33** of a box **11** so that member **12** slides inside the box along side **33** to clamp the side **33** to exterior member **13**. A hole **16** is then punched in the box side **33** to align with a hole **15** in member **12** and the orifice section **17** of member **13**.

A slidable door **19** is fitted on member **13** to move

longitudinally with respect to member **13**, so as to cover or uncover the orifice section **17** of member **13**, with a handle **20** fastened to door **19**. A flexible spring strip **21** which acts as a safety latch may be mounted on the exterior surface of member **13** to lie between handle **20** and the exterior surface of member **13** when the slidable door **19** and attached handle **20** are in the open position, with the free end **21E** of strip **21** abutting the wall **20W** of a recess **20R** in the handle **20** when the slidable door **19** and attached handle **20** is in the closed position so as to latch handle **20** in the closed position to prevent accidental spillage of the contents **38** of box **11**.

Since obvious changes may be made in the specific embodiment of the invention described herein, such modifications being within the spirit and scope of the invention claimed, it is indicated that all matter contained herein is intended as illustrative and not as limiting in scope.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent of the United States is:

1. A reusable one-piece closure assembly that may be readily installed on a conventional paperboard box to serve as a closable orifice of the box, comprising two members in the form of strips of material which are fastened together at a common end so as to clamp together a side of box lying between the two members when the inner member is pushed through a slit in the side of a box, with the exterior member fitted with a slidable door member to alternately open or close an orifice in the exterior member,

said slidable door member and said exterior member fitted with safety latch means to latch the slidable door member in the closed position of the slidable door member,

said safety latch means comprising a flexible flat spring strip, one end of which is mounted to the exterior surface of the exterior member to lie between the slidable door member and the exterior member in the open position of the slidable door member, with the other end of the spring strip member projecting, in the closed position of the slidable door member, into a recess in the exterior face of the slidable door member and against a wall of said recess, said slidable door member being freely slidable over said flat spring member when the flat spring member is manually depressed against the exterior member.

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