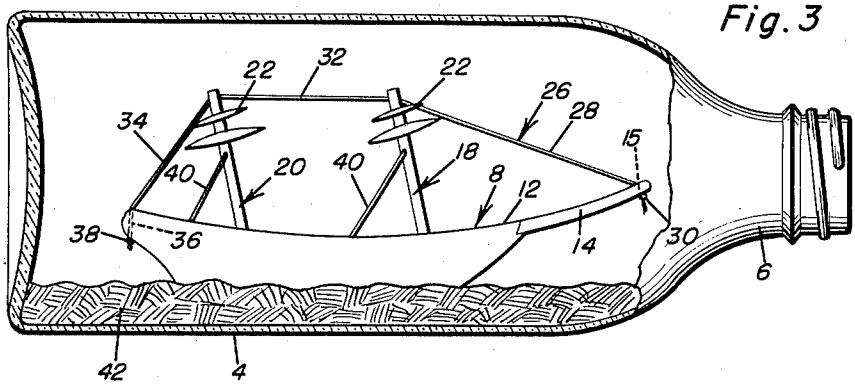
Jan. 17, 1956 L. M. PATTERSON 2,730,827

TOY KIT

Filed Aug. 24, 1953

Fig. 3



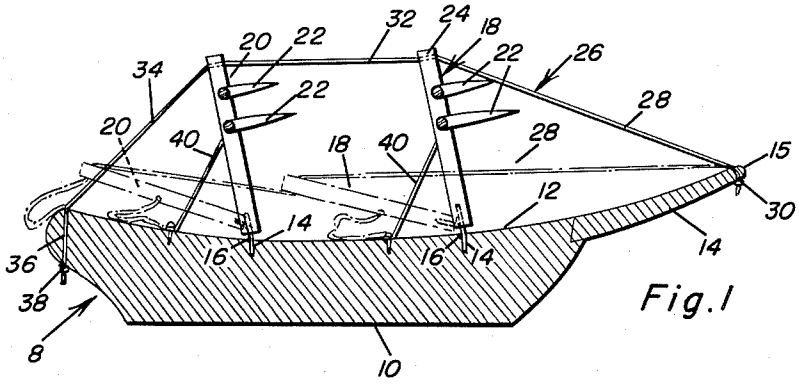
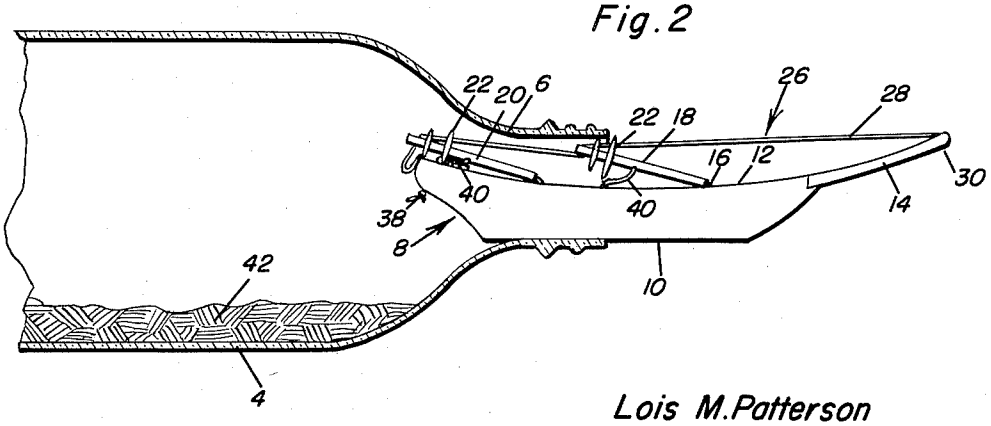


Fig. 1

Fig. 2



Lois M. Patterson

INVENTOR.

BY Clarence A. O'Brien and Harvey B. Jacobson

Attorneys

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Lois M. Patterson, Pacific Grove, Calif.

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3 Claims. (Cl. 41—10)

The present invention relates to a toy kit for hobbyists, primarily children, and has more specific reference to a bottle having a restricted neck and a boat located in the receiving space of the bottle.

More particularly, the invention has to do with a kit which is characterized by a bottle, modeling clay to be inserted into the space of the bottle, and an insertable and removable boat characterized by a hull, fore and aft masts and elastic rigging defining a novel boat the over-all dimensions of which are such that in inserting and removing the boat the masts, which are foldable, may be retracted to positions in close proximity to the deck of the hull so that the over-all dimensions are temporarily such as to allow passage of the complete boat through the restricted passageway in the bottleneck.

More specifically stated, it is an object of the invention to produce and offer for sale a novel and amusing boat-in-the-bottle toy or kitt which has to do with the stated bottle, a rough hull with a jib-boom, masts with attached yards, requisite pieces of elastic thread forming the so-called rigging, and a batch of modeling clay which may be used in forming a suitable base for the hull within the confines of the bottle.

More specifically, the object of the invention is to provide an insertable and removable two-masted hull or boat wherein a lengthwise elastic band or thread has its ends joined with fore and aft portions of the hull and its intermediate portion operatively associated with the upper ends of rigid masts for exerting tension on the masts and moving the same, which are detachably pinned to the deck, to their normal perpendicular or erect positions.

Other objects, features and advantages will become more readily apparent from the following description and the accompanying sheet of drawings.

In the drawings, wherein like numerals are employed to designate like parts throughout the views:

Figure 1 is a view in section and elevation of the complete ready-to-insert boat which shows in full and dotted lines the manner in which the folding thread-biased masts function.

Figure 2 is a view showing the bottle in section and the boat in elevation and illustrating the manner in which the masts are folded down to out-of-the-way or compact positions to allow the boat to be either inserted or removed by way of the restricted neck.

Figure 3 is a view in section and elevation illustrating the boat in the bottle, this being the finished product which may be used as a mantlepiece ornament or for some other decorative purpose by the usual juvenile model maker.

Referring now to the drawings with the aid of reference numerals and lead lines, the body of the bottle is of any appropriate size and shape and it is denoted generally by the numeral 4. The restricted neck is denoted at 6. The boat is preferably one which is sold in knockdown form and which is made up of separate components. To this end, the boat is characterized by an appropriate

rough hull 8 having a flat bottom 10 and a suitably shaped deck 12 and a jib-boom 14 the outer end of which is provided with a keeper notch 15. At longitudinally spaced points are appropriate recesses or sockets 14 into which suitable jointing pins 16 are fitted. The pins are preferably U-shaped and secured to the lower ends of the rigid uprights herein referred to as masts 18 and 20. The masts are provided with suitably attached yards or cross-spars 22—22. The upper ends of the masts are preferably provided with keeper notches 24.

The elastic tensioning, biasing and retaining means is denoted by the numeral 26 and it comprises an elastic thread of appropriate tensile strength. The forward downwardly inclined end portion 28 is formed with a knot 30 which is detachably joined with the notched end 15. The intermediate portion 32 is stretched between and joined with the notched upper ends 24—24 of the masts 18 and 20. The rearwardly inclined end portion 34 has its terminal portion 36 passing through an opening provided therefor in the hull with the terminal formed into a retaining knot 38. The numerals 40—40 designate auxiliary inelastic threads or bands which are joined at their lower ends to the deck and at their upper ends to the intermediate portions of the respective holding mast. These stretchless threads are referred to as rigging due to the manner in which they are associated with the spar-equipped masts. It is within the purview of this invention to also include sails (not shown) on the masts if desired. The idea is, however, to provide the knock-down components which go to make up the model boat and to include these in a kit which also include the bottle. Then, too, a suitable batch of modeling clay will be provided and this will be placed in the bottle in appropriate form as shown at 42 in Figure 3 in particular.

The contents that go to make up the kit will be prepared for sale in an appropriate cardboard or equivalent box. The instructions on the box or elsewhere will emphasize or stress the unique "pop up" nature of the folding thread-tensioned masts. By anchoring the elastic thread at the fore and aft ends of the hull, the masts are obviously caused to pop up to the desired position as shown in Figure 3. In Figure 2 the masts are shown folded down close to the deck which is the position taken thereby when the boat is either inserted or removed. The principle of the masts swinging back automatically to their erect or perpendicular positions after the boat is in the space of the bottle is, of course, the outstanding aspect of the invention.

Generally, the hull is made all of one piece of wood and need not, of course, be made in sections. The invention, while it is ornamental, is for the purpose of furnishing creative hobby for children and perhaps adults too.

The details of construction of the composite boat, the knockdown nature thereof, and the "pop up" characteristic of the tensioned masts will be clear, it is believed, by studying the description in conjunction with the drawings.

From the foregoing, the construction and operation of the device will be readily understood and further explanation is believed to be unnecessary. However, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the appended claims.

What is claimed as new is as follows:

1. In combination, a bottle having a restricted neck, an insertable and removable boat, said boat embodying a hull, rigid fore and aft masts having their lower ends detachably and hingedly joined to the deck of the hull whereby they may be folded against the deck in a compact and convenient manner, and means for swinging the

masts to and retaining the same in their customary perpendicular positions relative to said deck, said means embodying an elastic band having its intermediate portion connected to the upper ends of the respective masts and its end portions connected to the respective forward and rear end portions of the hull.

2. In combination, a bottle having a restricted neck, an insertable and removable boat, said boat embodying a hull, rigid fore and aft masts, each mast having a pin at its lower end hingedly connected with the deck of said hull in a manner to permit the masts to be manually and bodily swung down and folded to a position in compact relation in respect to said deck, means for swinging the masts to and retaining the same in their customary positions perpendicular to said deck, said means embodying an elastic band having its intermediate portion connected to the upper ends of the respective masts and its end portions connected to the respective forward and rear end portions of the hull, and auxiliary threads joined at their lower ends to the hull and at their upper ends to the intermediate portions of the respective masts.

3. As a new article of manufacture a boat for insertable and removable use in association with a bottle having a restricted neck comprising a hull having a jib-

boom at its bow end, the outer end of said boom having a keeper notch, a pair of rigid masts having complemental yards, each mast comprising a rigid member having a pin at its lower end fitted removably into a recess provided therefor in the deck of the hull and having a keeper notch in its upper end, said pins fitting into said recesses and thus providing hinged connections allowing said masts to be folded into compact and convenient relation with the deck of the hull, and an elastic band having its respective ends connected to the respective forward and rearward end portions of the hull and having its intermediate portion operatively connected with the upper ends of the respective masts by way of the keeper notches in said upper ends.

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