March 20, 1951 N. P. ROSENBERG 2,545,706

ORNAMENTAL SHIP MODEL DISPLAY

Filed Oct. 14, 1947

FIG. 1.

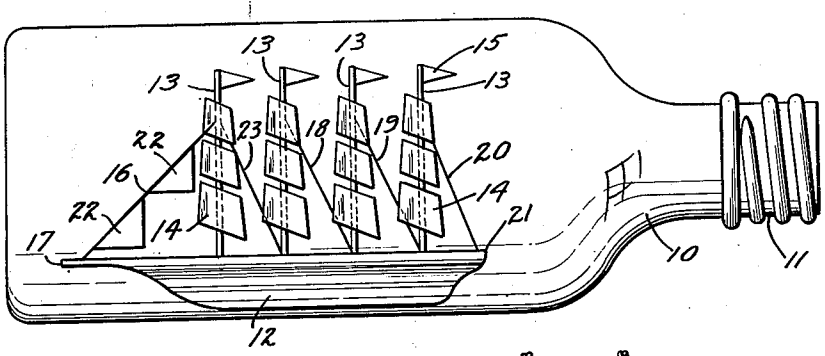


FIG. 2.

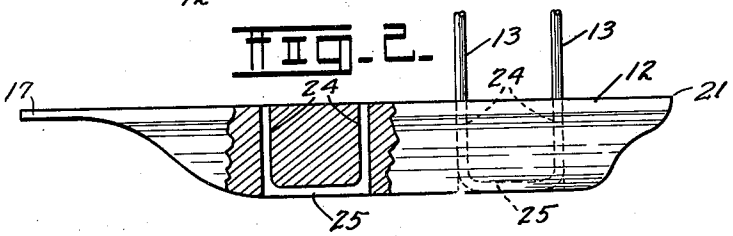


FIG. 3.

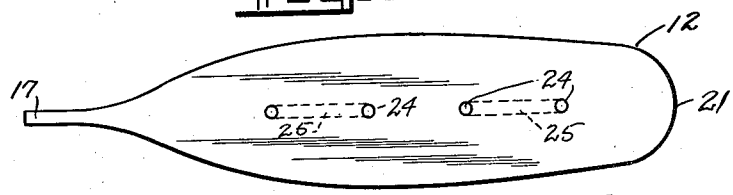
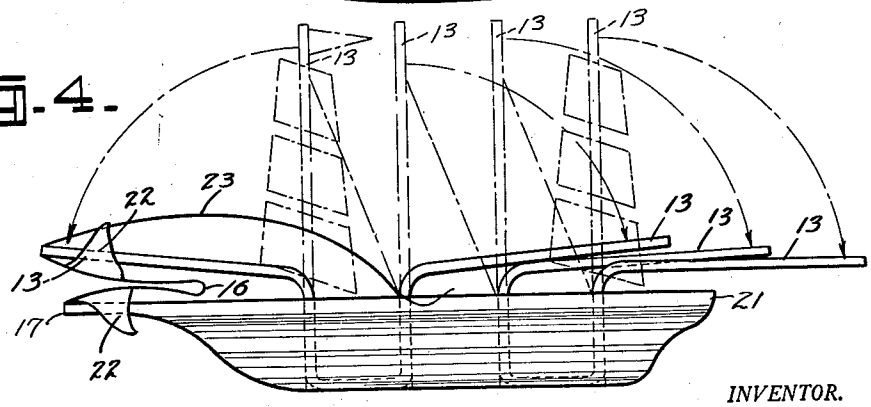


FIG. 4.



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ORNAMENTAL SHIP MODEL DISPLAY

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2 Claims. (Cl. 41—10)

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This invention relates to a novelty and more particularly to a miniature sailing ship positioned in a bottle.

The principal object of the invention is the provision of a ship in a bottle and method of forming the ship and positioning the same therein.

A further object of the invention is the provision of a means of forming a model ship, which model may be inserted into a bottle through the relatively narrow neck thereof.

A still further object of the invention is the provision of a mast structure for a model ship including flexible means and suitably arranged rigging permitting the mast structures to be temporarily collapsed while the model ship is positioned in a bottle.

A still further object of the invention is the provision of a novelty comprising a bottle having a narrow neck section and a model ship positioned therein, the over-all dimensions of the ship and particularly the masts thereof being substantially greater than the narrow neck portion of the bottle.

A still further object of the invention is the provision of a method of forming a ship in a bottle comprising a novelty item.

The ship in the bottle and method of forming and placing the same therein is particularly adaptable for kit construction wherein model makers and others may form a model ship from a kit of appropriate parts and insert the same in a bottle, the resulting combination appearing as though the ship were formed piece by piece in the bottle by the tedious means heretofore necessary to achieve such a combination.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein:

Figure 1 is a side view of a ship in a bottle.

Figure 2 is an enlarged side elevation of a ship model hull with parts broken away and parts in cross section and illustrating the means of mounting the masts therein.

Figure 3 is a top plan view of the ship model hull.

Figure 4 is a side view of the ship model with the masts and rigging shown in solid lines in collapsed position and dotted lines in upright position.

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By referring to the drawings and Figure 1 in particular it will be seen that a bottle 10 has been disclosed which has a relatively narrow neck portion 11 providing the sole means of access into the interior of the bottle 10. A ship model is positioned in the hollow interior of the bottle 10 and, in combination with the bottle, forms a novelty apparently comprising a ship model constructed piece by piece in the bottle by a tedious operation conducted through the narrow neck opening of the bottle.

The ship comprises a hull 12, a plurality of masts 13 and suitable sails 14 affixed to each of the plurality of masts 13 and pennants 15 affixed to each of the masts 13. Rigging 16 is provided running from the foremost portion 17 of the ship to a point near the top of the foremost of the plurality of masts 13 and from that point downwardly to the base of the second of the masts 13 with respect to the fore part of the ship. Additional rigging 18 is affixed between the second of the masts 13 from a point near the top thereof to the base of the third of the masts 13, the masts being counted from the foremost part of the ship. Rigging 19 is positioned from the third of the masts 13 at a point near the top thereof to the base of the fourth of the masts 13 at the base thereof. Rigging 20 is positioned from the fourth of the masts 13, which is the mast closest the back of the ship hull 12, at a point thereon near the top thereof and is affixed to the hull 12 at a point adjacent the rearmost portion 21 thereof. Representations of triangularly shaped sails 22 are affixed to the rigging 16 so that the assembly of the hull 12, the masts 13, the sails 14, the pennants 15 and the rigging 16, 18, 19 and 20, respectively, appear as a rigidly formed, conventional ship model incapable of being positioned in the bottle 10 except by piece by piece insertion of the several parts thereof.

An additional rigging 23 is attached to the upper portion of the foremost of the masts 13 and not initially attached to the base of the second of the masts 13 as this operation of attaching the rigging 23 to the base of the mast 13 is performed after the ship model is positioned in the bottle and is the only operation in the formation of the ship in the bottle to be performed.

By referring now to Figures 2 and 3 of the drawings it will be seen that the hull 12 is provided with four vertically positioned spaced openings 24 divided into two pairs, each of which are connected at their bottoms longitudinally of the

ship hull by longitudinal passageways **25**. A plurality of masts **13** (four in number, as shown in Figure 1) comprise two U-shaped sections of resilient plastic material, such as "Nylon," a synthetic fiber - forming polymeric amide, or "Plaskon," a urea-formaldehyde resin, or "Plexiglas," an acrylic polymer resin, of appropriate cross section which are inserted into the openings **24** in the hull from the lower portion of the hull so that the arms of the U-shaped mast sections **13** extend upwardly above the deck of the hull and form the masts **13**, as shown in Figure 1. The interconnecting base portions of the U-shaped mast structures lie within the longitudinal connecting passageways **25** formed in the hull.

Each of the U-shaped masts **13** is formed of suitable plastic material and capable of being almost flush with the deck of the hull **12**, as shown in solid lines in Figure 4 wherein the foremost of the plurality of masts **13** is shown bent backwardly with the rigging **23** in loose position and the other three of the masts **13** are bent backwardly, it being observed that the rigging **16**, **19** and **20** is unaffected by the backward bending of the three masts and that the rigging **16** is unaffected by the forward bending of the first mast.

It will thus be seen that in forming the ship in the bottle the model ship is assembled from the hull **12**, the two U-shaped mast structures **13** and a plurality of sails **14** which are cut from suitable fabric and affixed to the masts by gluing or otherwise suitably affixing the same thereto, the pennants **15** and the triangular shaped sails **22** being likewise affixed as shown in Figure 1 of the drawings. The rigging **16**, **18**, **19** and **20** is positioned and secured as shown in Figure 1. The rigging **23** is secured to the upper portion of the first of the masts **13** and left unaffixed at its lowermost end.

The ship model is then ready for positioning in the bottle **10** and this is achieved by bending the first mast forwardly, as shown in Figure 4 in solid lines, and the other three masts bent backwardly, as also shown in Figure 4 in solid lines. As the masts **13** are formed of resilient plastic material, they will return to accurate position once the ship model is positioned in the bottle **10** where it is preferably secured in position as by a suitable adhesive. At this point the masts will have resumed their vertical position and the sails and the rigging will be appropriately positioned thereby. The loosely affixed rigging **23** is then secured for manipulation as by means of a pair of tweezers and affixed to the base of the second of the masts **13**, from the front of the ship, as by gluing the same thereto or otherwise, as desired. The excess rigging **23** is then severed and removed from the bottle and the resulting object comprises a novel ship in a bottle, the masts, rigging and sails of which are apparently incapable of being positioned in the bottle except by individual insertion therein.

It will thus be seen that a novel method of forming a ship in a bottle has been disclosed as well as a means of forming the ship model from the several component parts thereof, which means is particularly adaptable to kit type constructions wherein the hull, sails, rigging, etc., can be individually assembled by the model maker and the assembled ship model inserted in the bottle as heretofore disclosed. The resulting object will be found to be attractive and of considerable interest and obviously capable of assembly and formation by unskilled persons as well as model makers and the like.

Having thus described my invention, what I claim is:

1. A ship model including a hull having vertically positioned openings formed therein and spaced longitudinally thereof and a plurality of masts positioned in the said openings, each of the said masts comprising a section of resilient material and sails and rigging secured to the said masts and hull and the ship model adapted for insertion in a bottle by bending the said masts thereof to a position flush with the deck of the ship model, the masts being capable of assuming their normal vertical relationship with respect to the hull of the ship model when the same is positioned in a bottle.

2. A ship model including a hull having vertically positioned openings formed therein and spaced longitudinally thereof, grooves in the bottom of the said hull interconnecting the vertically positioned openings, a plurality of U-shaped masts positioned in the said openings and grooves, each of the U-shaped masts comprising a section of resilient material sails and rigging secured to the vertical portions of the said masts and hull and the ship model adapted for insertion in a bottle by bending the said resilient masts and rigging thereof to a position flush with the hull, the masts being capable of reassuming the normal vertical relationship with respect to the hull of the ship model and repositioning the rigging with respect thereto when the same is positioned in a model.

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