June 11, 1968 G. SAKIER 3,387,810

HOLDER FOR TUBES OF PAINT OR OTHER SUBSTANCE

Filed Aug. 24, 1966

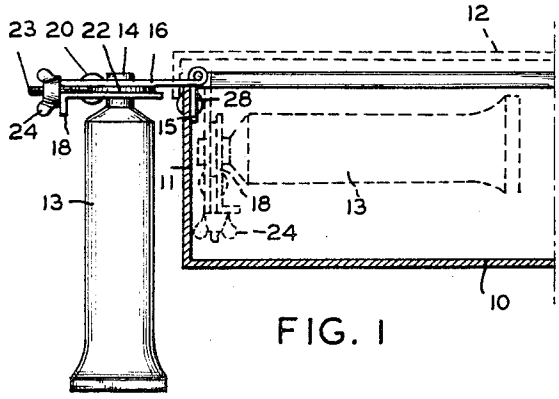


FIG. 1

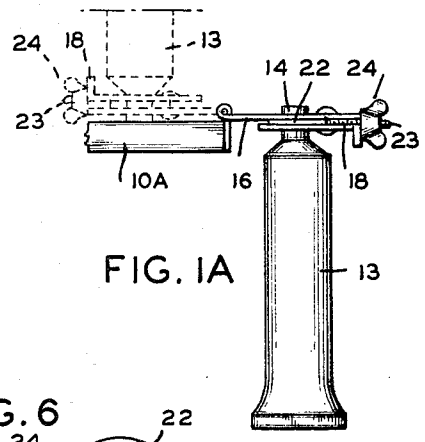


FIG. 1A

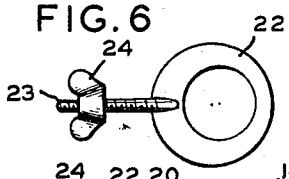


FIG. 6

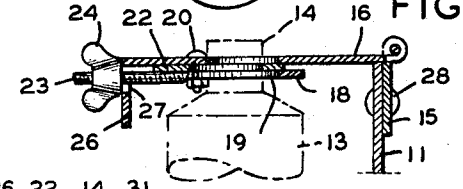


FIG. 4

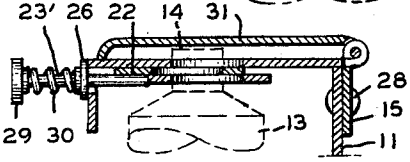


FIG. 7

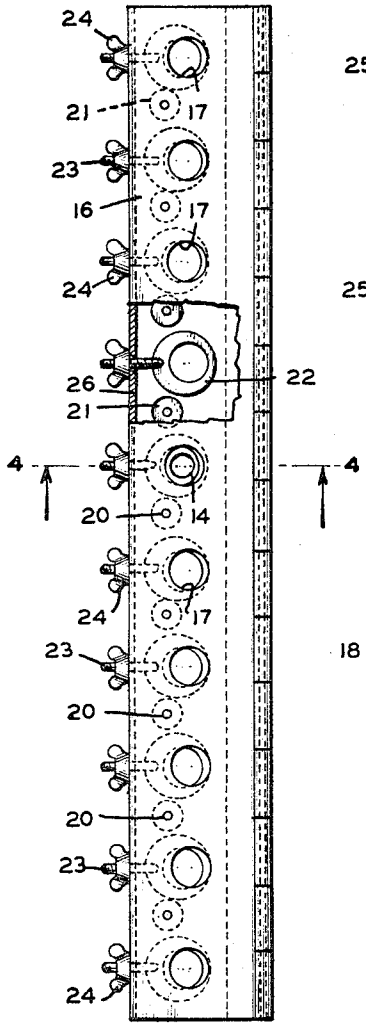


FIG. 2

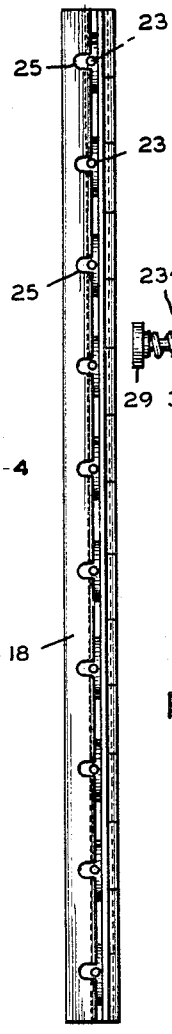


FIG. 3

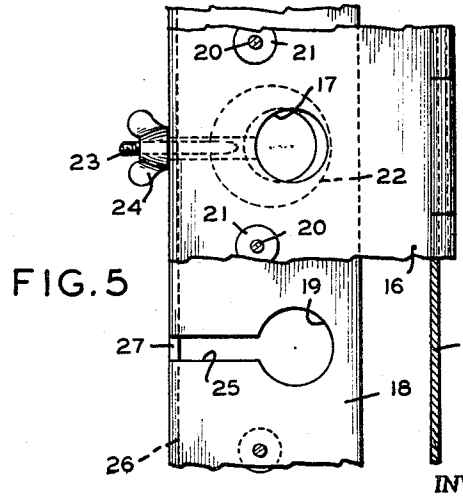


FIG. 5

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HOLDER FOR TUBES OF PAINT OR OTHER SUBSTANCE

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ABSTRACT OF THE DISCLOSURE

Article holding apparatus having a fixed member with a series of openings therein and a plurality of independently adjustable fastening members having openings of substantially the same size as the openings of the support member and movable into and out of registration therewith for clamping articles of the same or different sizes.

Summary of the invention

This invention is a holder for independently holding and releasing a plurality of objects of the same size or of different sizes and includes a support member having a series of openings therethrough and a plurality of independently adjustable fastening members with one fastening member for each opening of the support member. Each fastening member has an opening of substantially the same size as one of the openings in the support member and such fastening member is adjustable so that the openings can be moved into register with each other to permit an article to be inserted or moved out of register with each other to clamp the article in fixed position. Articles of different sizes can be accommodated merely by moving the fastening member so that the openings are out of registration by different amounts.

Another object of the invention is to provide a rack or holder in the form of a support having a series of openings for the insertion and retention of objects with quickly releasable securing means and with said rack or holder swingable substantially 270° from a position of use to a position of non-use as well.

Another object of the invention is to simplify the holding for use of multiple objects such as tubes of paint or other substance selectively needed by an artist or painter usually with a palette on which the paint is arbitrarily discharged, and to provide a holder by means of which the several objects may be readily secured in place or removed, said rack or holder swingable into a position of use with ends of tubes open to a position of non-use where the ends of tubes are sealed.

Other objects and advantages will be apparent from the following description considered in connection with the accompanying drawing wherein:

FIG. 1 is an end view of the invention;

FIG. 1A is an end view of the invention;

FIG. 2, a top plan view;

FIG. 3, a side elevation with the wing nuts removed;

FIG. 4, an enlarged section on the line 4—4 of FIG. 2;

FIG. 5, an enlarged fragmentary plan view;

FIG. 6, a detail plan view of the tube fastener; and,

FIG. 7, a section similar to that of FIG. 4 of a modified form of the invention.

With continued reference to the drawing the holder of the present invention includes a box or container **10** having upright sides **11** and a cover **12**. The box **10** is adapted to contain a series of objects or tubes **13** containing viscous materials such as artist's or painter's colors. The tubes **13** are of conventional construction with reduced tubular externally threaded discharge portions **14**. These discharge portions **14** usually are fitted with screw caps, not shown, which require finger manipulation in order

to remove the same so that the contents of the tubes may be extruded or expelled by applying pressure to the exterior of the tube with the fingers.

In holders previously provided the threaded discharge ends of the tubes were screwed into correspondingly threaded openings in the holder. This required uniform diameter and pitch of the threads on tubes and because of the wide variety in diameter and pitch of the threads and the nozzles of existing commercial tubes a costly and elaborate system of adapters was required in order to accommodate the many different sizes. Also in the traditional method of preparing a palette an arbitrary amount of the contents of each tube was squeezed out of the tube onto the palette and only a portion used, resulting in substantial waste by the discarding of excess material discharged from the tube onto the palette, whereas in this method the color is discharged only when and in the quantity needed.

The present invention may be mounted in a box or container **10**, or to the edge of any work table or panel **10A** as in FIG. 1A, and is a holder composed of a mounting flange or element **15** to which is hinged a supporting plate or member **16** having a series of equally spaced apertures **17** for receiving the reduced portions **14** of the tubes **13**.

In order to fasten the reduced portions **14** within apertures **17** and additional plate **18** is provided having apertures **19** corresponding in size to and in registration with the apertures **17** in the plate **16**. The plate **18** is fastened to the plate **16** by means of a series of bolts and nuts **20** with a washer or spacer **21** about each of the same to provide space for the reception between the plates **16** and **18** of fastening collars **22**. To each collar **22** is fixed a screw **23** having a wing nut **24** thereon by means of which the collar can be moved from a position concentric with the apertures **17** and **19** to exert pressure or produce a binding action on the discharge portions **14** of the tubes contained thereon. In this illustrated construction, in order to accommodate the screws **23**, the plate **18** is provided with slots **25** which also extend through openings **27** in a flange **26** which serves to strengthen the plate **18**. The screws **23** extend through the slots **25** and the openings **27** and the wing nuts **24** engage the flange **26**.

From the foregoing it will be apparent that with the mounting flange **15** attached in any desired manner, as, for example, by rivets **28** to the upright side **11** of the box or container **10**, the supporting plate **16** and associated plate **18** may be disposed in horizontal position exteriorly of the box **10** with the tubes **13** depending in convenient position for access as illustrated in full lines in FIG. 1, or such plates may be moved or swung through an arch of approximately 270° to a substantially vertical depending position within the box **10** as illustrated in broken lines in FIG. 1, in which position the tubes are substantially horizontally disposed with the tube openings closed against a surface, thus protecting and preventing drying up of the contents of the tubes **13**.

If desired, instead of the wing nuts **24** the collar **22** may be urged out of concentricity with the apertures **17** and **19** by means of a rod **23'** substituted for the screw **23**, such rod being provided with a head **29** between which end and the flange **26** a spring **30** is confined under tension. Also if desired a cover plate **31** may be provided for the plate **16** and the discharge portions **14** of the tubes **13** and therefore forming a part of the hinge.

It will be apparent from the foregoing that a simple practical rack or holder is provided which will materially simplify the maintenance of tubes in a convenient and readily accessible position with the application and removal of such tubes easily accomplished and resulting in a saving in time and contents of the tube in the use of the

same and that the rack or holder may be attached to a box or container, to the edge of a work table, portable panel, or other surface.

It will be obvious to one skilled in the art that various changes may be made in the invention without departing from the spirit and scope thereof and therefore the invention is not limited by that which is illustrated in the drawing and described in the specification, but only as indicated in the accompanying claims.

What is claimed is:

1. Apparatus for independently holding and releasing a plurality of objects of the same size or of different sizes comprising a support member having a series of openings of a predetermined size, a plurality of fastening members carried adjacent to said support member, one fastening member being located adjacent to each opening of said support member, each of said fastening members having an opening corresponding to one of the openings of said support member, means slidably mounting said fastening members on said support member, and means on each of said fastening members for slidably moving the same relative to said support member, whereby each of said fastening members can be moved until the opening therein is substantially in register with one of the openings in said support member and closely adjacent thereto so that an object can be inserted through the aligned openings and

thereafter said means for slidably moving said fastening members is operated to move the opening in said fastening members out of register with the opening in said support member and thereby clamp objects of the same size or different sizes in fixed position.

2. The structure of claim 1 in which said support member includes a pair of plates connected together in spaced generally parallel relation, and each of said fastening members includes a collar plate located between said pair of plates.

3. The structure of claim 1 including spring means normally urging said fastening members toward one side of said support member so that the openings are out of registration.

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