Aug. 25, 1970 J. P. VAUGHN 3,525,429

BRUSH CARRIER

Filed Dec. 20, 1968 2 Sheets-Sheet 1

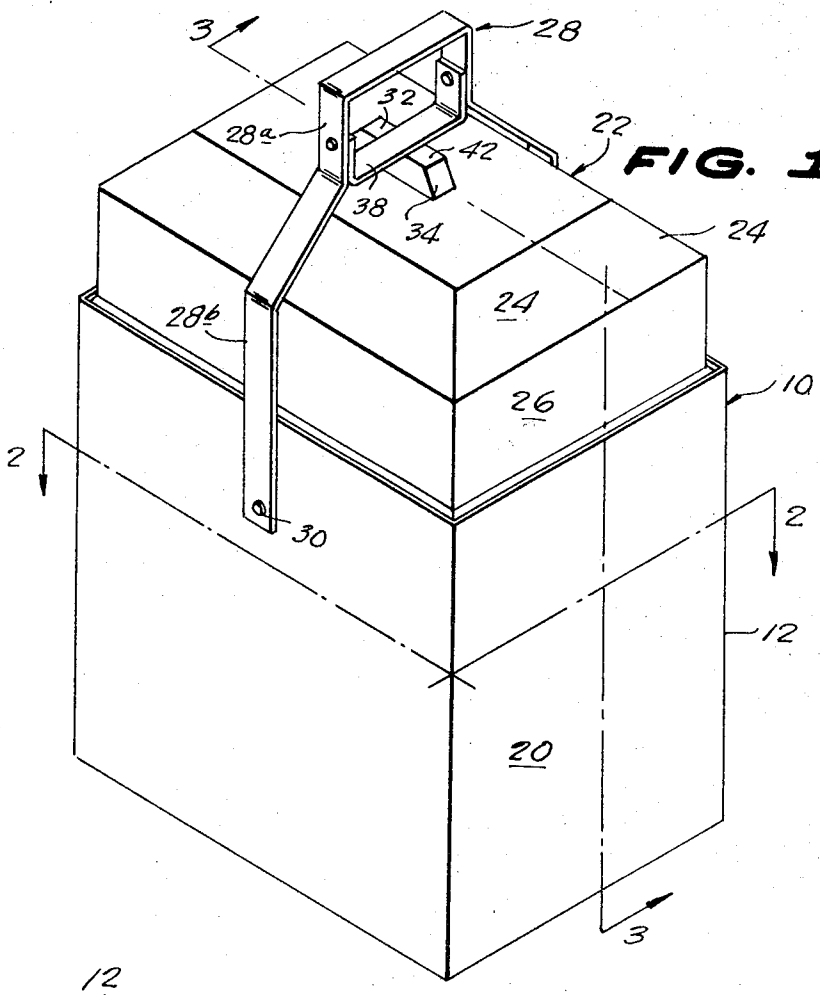


FIG. 1.

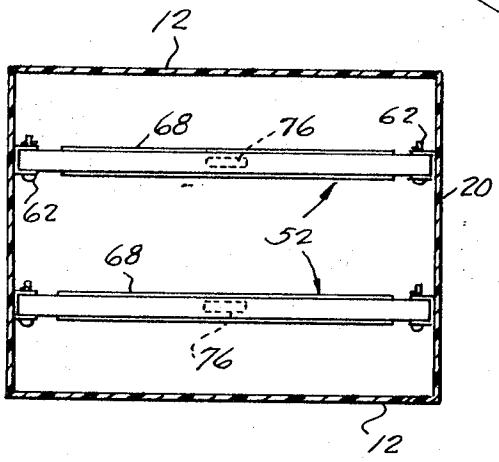
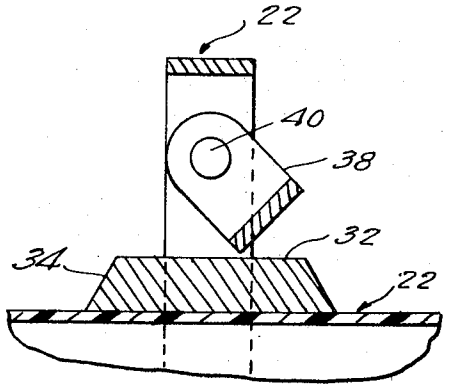


FIG. 2.

FIG. 9.



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FIG. 4.

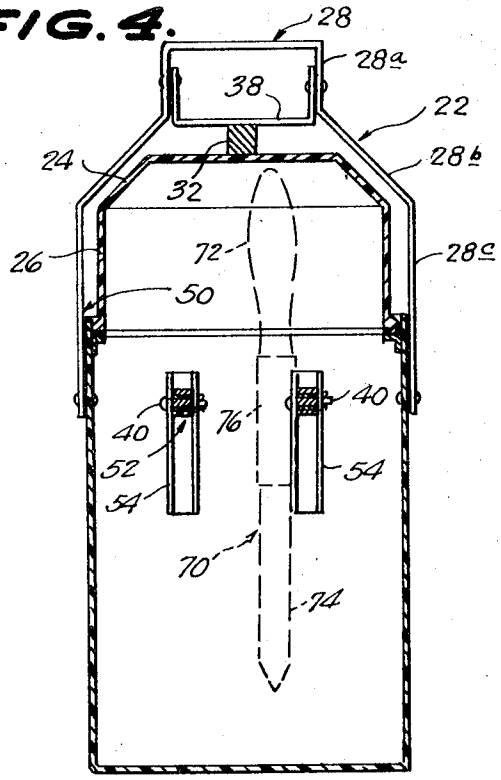


FIG. 3.

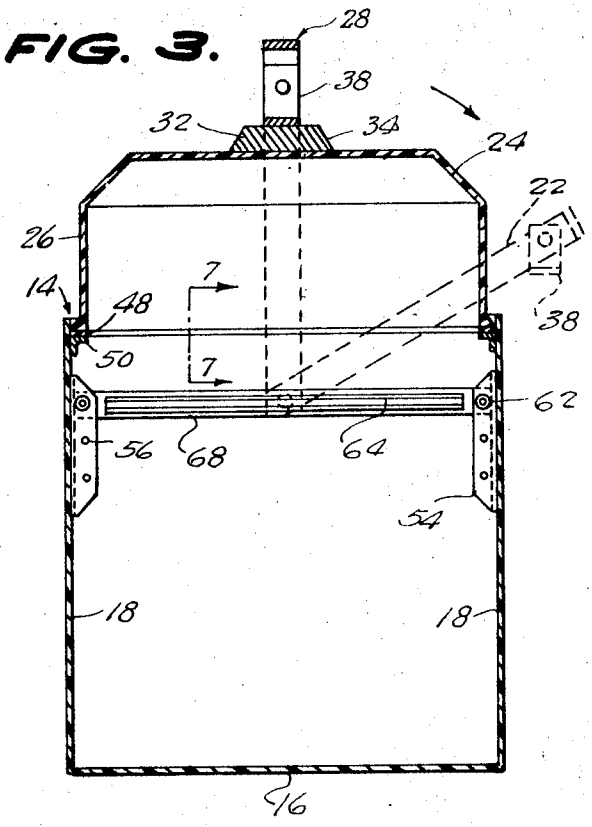


FIG. 5.

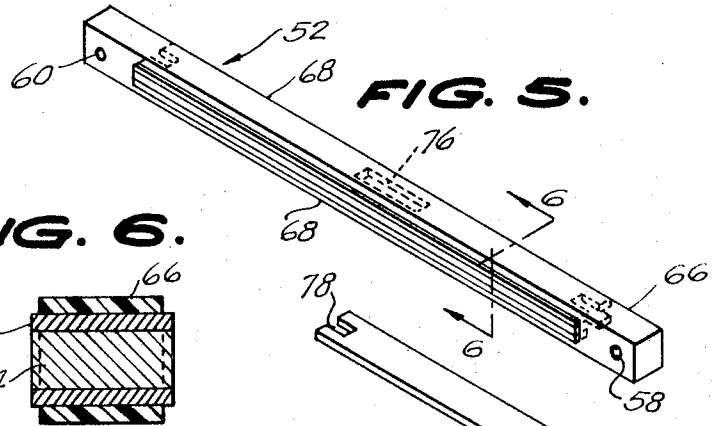


FIG. 6.

FIG. 8.

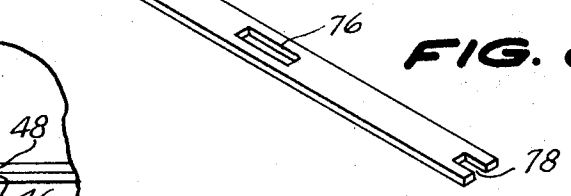
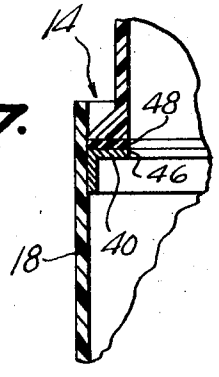


FIG. 7.



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BRUSH CARRIER

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U.S. Cl. 206—15.1 4 Claims

ABSTRACT OF THE DISCLOSURE

A brush carrier device with a container and removable top and a pivotal handle coactable with the top and container through the medium of a pivotal pressure foot carrier by the handle to urge the top into pressure operative engagement between the top and container, with sealing means interposed between the top and container and adjustably mounted magnetic brush supporting bars in the container adapted to engage metal portions of a brush and the like for removably suspending a brush from the supporting bars.

BACKGROUND OF THE INVENTION

The present invention pertains to brush or other articles and more specifically to brush carriers adapted to hold in place one or more such brushes. Heretofore brush carriers have been known but the present invention differs from the known constructions and provides a carrier including an open top container with a removable top therefor. A bale handle is pivotally mounted on the exterior of the container and itself pivotally mounts a pressure foot and locking mechanism which is adapted to operatively coact with the top for pressing the top into engagement with sealing means on the container. Support bars for brushes are vertically adjustably mounted in the container and incorporate at least one and preferably a plurality of magnets embedded in plastic. Magnetizable plates are affixed to the bars over the magnets with the plates interlocked with the bar through integral plastic interconnecting piers or pillars extending through openings in the plates in proximity to the center and at the ends thereof. The magnets removably hold the brushes and permit easy removal thereof.

SUMMARY OF THE INVENTION

Accordingly, an object of the inventiton is to provide a carrier for brushes and the like having areas of metal thereon and magnets vertically adjustably mounted in a container and coactable with the metal for removably supporting such articles and permitting easy removal therefrom.

Another object of the invention is to provide an open top container therefor with means to press the top against sealing means supported by the container to effectively seal the top and container.

A further object of the invention is to provide a carrier having a boss on the upper surface of a container and a bale type handle for the carrier and a pressure foot means pivotally mounted on the blade handle and being rotatable to engage with and disengage from the boss for selective removal of said top or to press the top against a container holding brushes and thereby create a seal therebetween.

In accompanying drawings forming a part of this application, and in which like numerals indicate like parts throughout the same:

FIG. 1 is a perspective view of a preferred embodiment of the brush carrier of my invention;

FIG. 2 is a sectional view in elevation taken on line 2—2 of FIG. 1;

FIG. 3 is a sectional view in elevation taken on line 3—3 of FIG. 1;

FIG. 4 is a transverse sectional view through the embodiment of the invention shown in FIG. 1, taken at right angles to the view in FIG. 3;

FIG. 5 is a perspective view of an assembly incorporating magnetized metal bars adapted to support paint brushes or the like, and which assembly is vertically adjustable;

FIG. 6 is a transverse sectioinal view taken on line 6—6;

FIG. 7 is a fragmentary sectional view taken on line 7—7 of FIG. 3 showing details of the construction of a container and lid used in my invention including sealing means interposed therebetween;

FIG. 8 is a perspective view of a magnetized bar such as shown in FIG. 5 of the drawings; and

FIG. 9 is an enlarged fragmentary view showing a pressure and locking foot in inactive position.

Referring now more specifically to the drawings showing a preferred embodiment of my invention, the numeral **10** designates generally the brush carrier, and which includes a substantially rectangular shaped container, which is open at its top, as indicated at **14**, and having a bottom **16**, longitudinal sides **18** and lateral sides **20**. A removable top or cover **22** has a truncated pyrimidal shape **24** at its upper end and a rectangular portion **26**, adapted to cooperate with the container to close the open end **14**. Both the top and container can be made of plastic or metal.

A bale handle **28** or the like, is pivotally secured to container longitudinal sides **18** by means of pivot pins **30**. The handle can be slightly flexible to facilitate providing a tight seal between the cover and container. A boss **32** is secured on the external upper surface of the top and has bevelled longitudinal ends at **34**. The bale handle has a U-shaped upper portion **28***a*, a pyrimidal shaped intermediate portion **28***b*, and depending leg portions **28***c*. The shape and dimensions of the bale handle are generally identical to those of top **22**, but the upper and intermediate portions are spaced from the top to permit easy and free movement of the handle.

A U-shaped pressure and locking member **38** is pivotally secured to the interior of the U-shaped portion **28***a* of bale handle **28**. This pressure and locking member, when in a position shown in full lines in FIG. 1 coacts with boss **32** to seal and lock together the upper surface, the top and container. Since both the bale handle and pressure and locking foot can be separately turned with respect to one another they can assume a position such as shown in FIG. 3 in broken lines and in FIG. 9 in section to release the top for removal thereof from the container. When the bale handle and foot and lock member are respectively placed in a vertical position as shown in FIG. 1, the pressure foot is in contact with upper surface or face **42** of boss **32** and exerts a downward pressure on the upper surface **42** of the top. The positions of the bale handle and pressure foot when in pressure and locking position and the unlocked position is readily apparent from a study and comparison of FIG. 1 with FIGS. 3 and 9.

In order to tightly seal the top to the container, a gasket bracket **44** is attached to the inner surfaces of the container in proximity to the open top **14** and extends around the entire inner periphery of the container. The bracket may be in the nature of an L-shaped angle member but obviously other shapes could be used. Preferably a flat upper surface **46** is presented by the bracket on which a gasket of cork **48** or the like is supported, and which is coextensive with bracket **44**. The lower ends of the longitudinal and lateral sides of the top **22** are preferably bent

outwardly or an outwardly directed flange is formed thereon at **50** for coaction with the material of gasket **48** for proper sealing of the top and container.

For illustrative purposes, two spaced article supporting bars **52** are shown in the drawings, although this can be varied in accordance with the desires or necessities of a user of the invention. They can extend between either the longitudinal or lateral sides of the container. As shown in the drawings, they are mounted longitudinally. U-shaped brackets **54** and the like are secured to the interior surfaces of the container by spot welding rivets or in any other suitable manner. The brackets each have a plurality of holes or openings **56** therethrough, vertically spaced and adapted for vertically positioning such articles as paint brushes and the like, in the container.

The bars **52** have holes **58**, **60** adjacent their opposite ends. Removable pins **62**, or the like, extend through the bracket holes **56** and holes **58**, **60** in the bars to support the bars, and thereby the articles, in a desired vertical position. When supporting brushes, the length of the bristles, and/or the depth of any solution in the container can be compensated for by raising or lowering the bars. Brushes, in a known manner, have metal ferrules surrounding the junction between the bristles and the handle.

The bars **52** include longitudinally spaced magnets **64** held in or on a plastic body **66** and metal plates **68** of a magnetizable material are affixed to the bar externally thereof and constitute north and south poles for the magnets. With the fields established and provided in spaced longitudinal position of the bars, paint brushes **70** as illustrated in FIG. 4, consisting of a handle **72**, bristles **74** and ferrule **76'** can be placed with the ferrule against the metal plates **68** and be held in the desired location in a simple manner and easily detached therefrom.

FIGS. 2, 5, 6 and 8 show details of bar **52**. The plastic body **66** which substantially covers plates **68** and magnets **64**, extends through openings **76** intermediate the ends of the magnets and plates and serves to create a solid plastic body for maintaining the magnets and plates in proper position with respect to a bar. The ends of plates **68** and magnet **64** are provided with notches **78** therethrough and additionally permit a single integrated plastic body to secure the magnets and plates in operative position. The vertical adjustability of the holders and the ease of detachment and attachment will be obvious from the foregoing description and the drawings.

Manifestly minor changes in the structure, detail and modifications can be made without departing from the spirit and scope of the invention.

What is claimed is:

1. A carrier for tools, brushes and the like, each incorporating a metal part conductive of magnetic flux, comprising a container having at least bottom and sidewalls enclosing a space for reception of said tools, and the like, bracket means secured to said container sidewalls, a support bar incorporating magnet means, and means for affixing said support bar to said bracket means, whereby to releasably hold said tools and the like in the container by merely contacting the magnetically conductive parts of the tools and the like with said support bar, said support bar including a longitudinal magnet in said bar, and metal plates on opposite sides of said magnet to create magnetic fields through said plates at desired spaced locations along said bar, and a plastic jacket substantially enclosing said magnet and said plates.

2. A carrier as claimed in claim **1**, said metal plates and magnet having central and end openings therethrough, plastic material embedding said magnet and plates and all said plastic being integral on opposite sides of said magnet and plates, and said openings permitting passage therethrough and integration with plastic material on the opposite sides of said plates.

3. A carrier as claimed in claim **2**, wherein said bracket means comprises a pair of bar support brackets mounted in the interior of said container, said brackets each having a plurality of holes therethrough, said brackets being disposed on opposite interior side faces of said container, said brackets having their holes in proximity to the ends of said bar, and pin means removably insertable through a hole in a bracket and a hole in a bar at each end of the bar to adjustably position the bar in the container.

4. A carrier as claimed in claim **3**, said plates being in contact with said magnet on opposite sides of said magnet and said plastic material covering said plates, the plastic material extending beyond the free ends of said plates and said holes in said bar being provided beyond the ends of said plates and formed in the extended portion of said plastic material.

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U.S. Cl. X.R.

15—257.06; 220—94