Dec. 5, 1961 F. W. KUS 3,011,682

COMBINED PAINT CONTAINERS AND DISPENSERS

Filed Sept. 28, 1959

FIG. 1

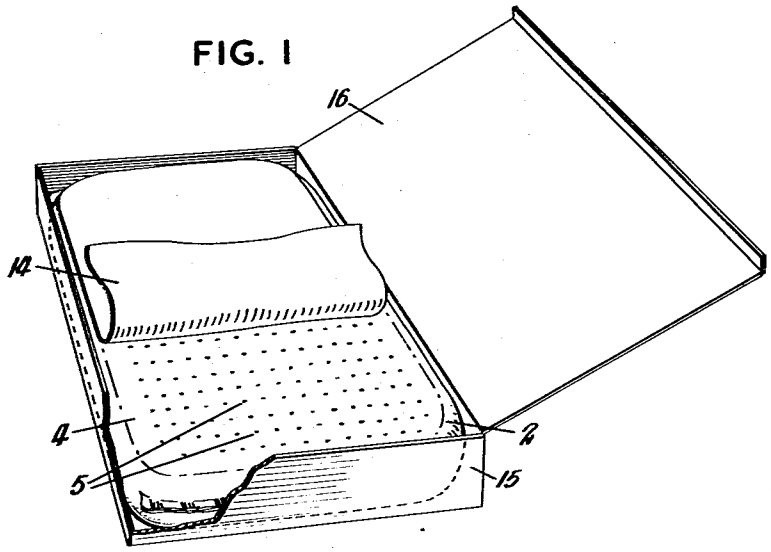


FIG. 2

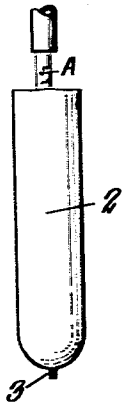


FIG. 3

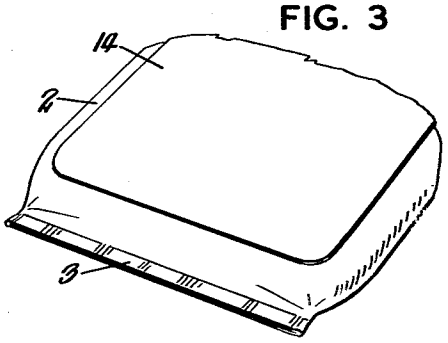
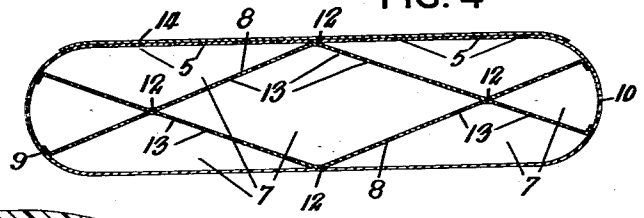


FIG. 4



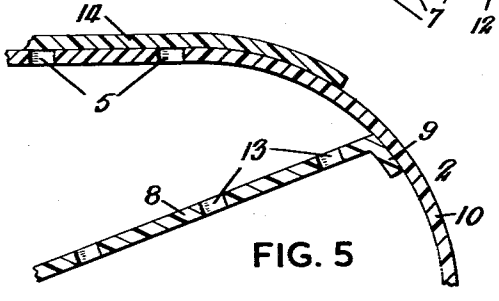


FIG. 5

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COMBINED PAINT CONTAINERS AND DISPENSERS

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My invention relates to a combined paint container and dispenser provided more particularly for use in combination with a paint applicator roller, and the object of the invention is to provide a paint container in the form of a collapsible bag made of plastic film, as for example polyethylene or vinyl, one wall of the bag-like container being pierced by a plurality of small perforations through which paint is expressed under pressure created by partial collapse of the bag under application of a paint applicator roller manually rolled over the perforated surface of the bag; before use the perforated surface of the bag being sealed by a pressure sensitive plastic sheet covering the perforated surface and which may be readily stripped therefrom.

A further object of the invention is to strengthen the bag and control excessive flow of paint therefrom by forming the bag with a plurality of paint containing chambers having perforated walls and through which perforations the paint flows from one chamber to another as the upper chambers of the bag gradually become exhausted under repeated applications of the roller to the upper perforated surface of the bag to collapse the same.

Another object of the invention is to provide a carton in which the bag is contained for shipping and vending, the carton having an upwardly swinging top lid which upon being opened exposes the perforated surface of the bag sealed by the readily removable pressure sensitive sheet.

With the foregoing and other objects in view, as shall appear, my invention consists of a paint container and dispenser formed and arranged all as hereinafter more particularly described and illustrated in the accompanying drawing, in which:

FIG. 1 is a perspective view of the paint container bag and carton assembly, the perforations closure sheet being partly stripped from the bag.

FIG. 2 is a side view of the bag in an upright position for filling, paint being poured thereinto.

FIG. 3 is a perspective view of one end of the sealed bag.

FIG. 4 is a cross-sectional view through the bag showing its construction, and

FIG. 5 a magnified view of a portion of the construction shown in FIG. 4.

In carrying out the invention, the plastic sheeting bag 2 takes the place of a standard paint can, the bag being filled with paint in the factory and made in several sizes, for example, to contain a quart or a gallon of paint.

In manufacture, the bags are preferably formed from lengths of tubular plastic material, each length being sealed along one end 3 to produce a bag. Either prior to or after a bag is formed, one side 4 of the bag is pierced to provide a plurality of small perforations 5 through which contained paint may be expressed under roller pressure.

The bags are preferably divided into a plurality of

compartments 7 formed by sheets of plastic sheeting 8 constituting partitions within the bag and having their ends sandwiched within the sealed end 3.

The side edges 9 of the sheets 8 are anchored to the edge portions 10 of the bags, and the sheets sealed to the sides of the bag and to each other along the connections 12 intermediately of their widths to provide the chambers 7.

So that paint may flow from one chamber to another the sheets 8 contain a plurality of perforations 13. Before paint is poured into a bag a pressure sensitive plastic sheet 14 is applied to the surface of its side 4 to seal the perforations 5.

In filling the bags they are placed in an upright position with their open ends uppermost and the paint A poured thereinto, as illustrated in FIG. 2, the open ends of the bags being afterwards sealed in the same manner as their sealed ends 3, the upper ends of the compartment forming sheets 8 being also sealed within the upper ends of the bags. Each paint filled bag is preferably placed within a carton 15 having an upwardly swinging lid 16 with the perforated side 4 of the bag uppermost; the assembly being then complete for shipping and vending.

In commencing to paint, using a paint applicator roller, the user swings the carton lid open and strips the pressure sensitive plastic sheet 14 from off the perforated side 4 of the bag to expose the perforations 5. Upon a paint roller being rolled over the side 4 under light pressure, such downward pressure upon the bag will cause paint to be expressed under the pressure created by the partial collapse of the bag through the perforations and coat the roller for paint application use.

As the upper compartments 7 become exhausted and tend to collapse the applied roller pressure causes paint in the other compartments to ooze into and replenish the top compartments and whereby an even and controlled passage of paint through the perforations 5 is obtained, the sheets 8 also strengthening the bag against the weight of contained paint. If the paint in the bag is not completely used in one operation the pressure sensitive sheet 14 may be replaced to seal the bag perforations 5.

From the foregoing description it will be apparent that I have devised a novel and practical combined paint container and dispenser which although primarily devised for use with a paint applicator roller may, if desired, be used for the application of paint with a brush, the brush being stroked across the perforations 5; and although I have shown and described a particular embodiment of the invention it is to be understood that I may make any desired changes or alterations without departing from the scope of the invention as set forth in the appended claims.

What I claim as my invention is:

1. A combined paint container and dispenser comprising a sealed paint containing bag formed of a length of flaccid collapsible plastic tubing sealed at its ends and having perforations in one of its integral walls and through which perforations paint may be expressed under pressure created by partial collapse of the bag under application of a paint applicator manually pressed against the perforated wall of the bag and stroked thereover, a perforated sheet of flaccid plastic sheeting contained within the bag and dividing the interior of the bag into several paint containing compartments, one of the com-

partments being bounded by the perforated wall of the bag and the compartments communicating with each other through the perforations in the perforated sheet of plastic sheeting.

2. A combined paint container and dispenser comprising a sealed collapsible paint containing bag formed of flaccid material and having an integral perforated wall and through which perforations paint may be expressed under pressure created by partial collapse of the bag under application of a paint applicator manually pressed against the perforated wall of the bag and stroked thereover, a perforated sheet of flaccid material contained within the bag and dividing the interior of the bag into

several paint containing compartments, one of the compartments being bounded by the perforated wall of the bag and the compartments communicating with each other through the perforations in the sheet of material.

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