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April 16, 1957 L. G. MORRISON 2,788,926

PAINT CUP

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475,904

Fig. 1

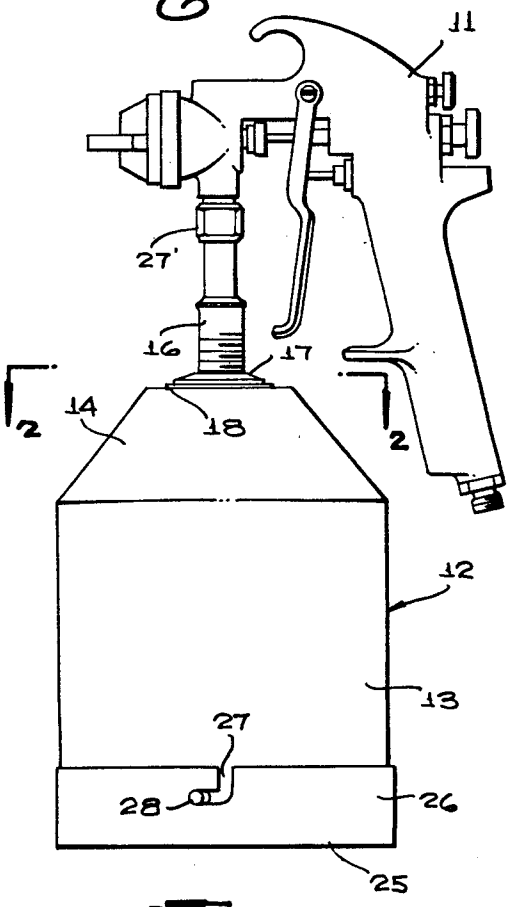


Fig. 3

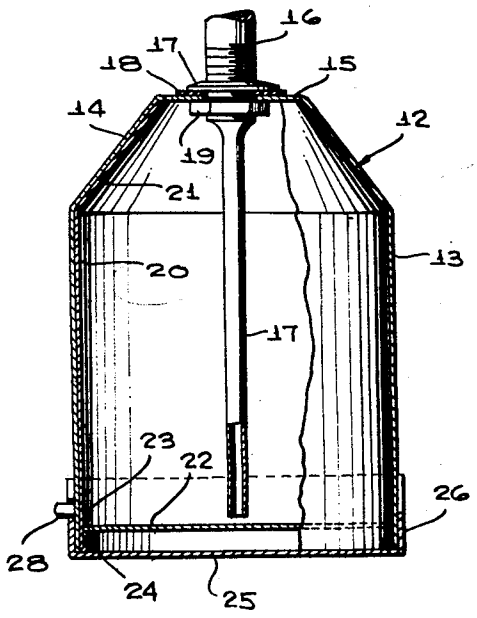
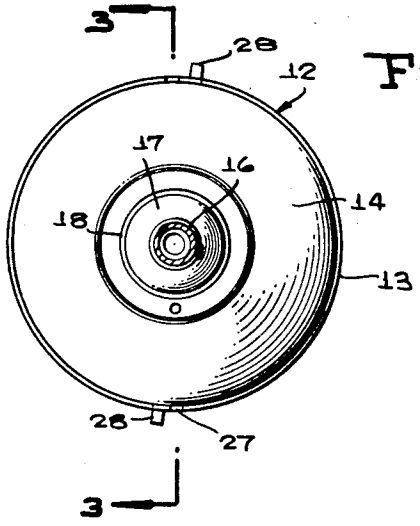


Fig. 2



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PAINT CUP

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2 Claims. (Cl. 222—394)

This invention relates to paint receptacles, and more particularly to an improved paint cup for use with a paint spraying nozzle.

The main object of the invention is to provide a novel and improved paint receptacle for use with a spray nozzle, said receptacle being simple in construction, being substantially leak-proof, and being arranged so that there is substantially no necessity for cleaning the cup each time it is used, as in the paint cups of the prior art.

A further object of the invention is to provide an improved paint cup for use on a paint spray nozzle, the improved paint cup being inexpensive to manufacture, providing a substantially leak-proof enclosure for the paint contained therein, being durable in construction, providing a substantial saving in time and expense by eliminating the necessity of cleaning the cup each time it is used, being compact in size, and being suitable for use with a conventional paint spray nozzle.

Further objects and advantages of the invention will become apparent from the following description and claims, and from the accompanying drawings, wherein:

Figure 1 is a side elevational view of a paint spray nozzle connected to an improved paint cup constructed in accordance with the present invention.

Figure 2 is a horizontal cross sectional view taken on the line 2—2 of Figure 1.

Figure 3 is a vertical cross sectional view taken through the paint cup on the line 3—3 of Figure 2.

Referring to the drawings, 11 designates a conventional paint spray nozzle, and 12 generally designates an improved paint cup constructed in accordance with the present invention. The paint cup 12 comprises a rigid main housing member 13 of metal or other suitable rigid material having a frustoconical top portion 14 merging with the horizontal top wall 15. The top wall 15 is centrally apertured, as shown in Figure 3, and secured in said top wall and extending through the aperture is the paint conduit 16, said conduit having a depending lower portion 17 which extends into the receptacle and depends substantially to the lower end thereof. As shown in Figure 3, the conduit 16 is provided with a flange 17 which engages an annular gasket 18 surrounding the conduit and engaging the top wall 15 around the central aperture therein, a lock nut 19 being threaded on the conduit 16 and engaging the bottom surface of the wall 15, as illustrated, to provide a sealed joint between the conduit 16 and top wall 15.

Received in the rigid main housing member 13 is the inner receptacle 20 of fibrous deformable material, such as cardboard, paper, or the like, which contains the paint or other liquid to be sprayed from the nozzle 11. The main body portion of the rigid housing 13 is cylindrical in shape, and the inner receptacle 20 has a cylindrical main body portion which slidably engages in the cylindrical portion of the outer housing 13, and also has a frustoconical top portion 21 which sealingly engages against the inside surface of the frustoconical top portion 14 of the main housing. The inner receptacle 20 has the bottom wall 22 which is secured at 23 to the lower marginal portion of the main body of the inner receptacle, as by providing a crimp 24 sealingly receiving a depending peripheral flange on the bottom wall 22 to provide a liquid-tight connection between the bottom wall 22 and the main body of the inner receptacle. As shown in Figure 3, the crimp 24 is substantially flush with the bottom edge of the cylindrical main portion of the outer housing 13 and is engaged by the detachable circular bottom cover 25, of rigid material, said bottom cover having the peripheral, upstanding flange 26 which telescopically receives the lower portion of the rigid housing 13. The flange 26 is formed at diametrically opposite points thereon with the L-shaped slots 27 in which are lockingly received respective outwardly extending pins 28 provided on the lower portion of the cylindrical main body of outer housing 13, as is clearly illustrated in Figures 1 and 3, for detachably securing the cover 25 to the lower end of the rigid housing 13. It will be understood that the cover 25 may be at times disengaged from the main housing 13 by rotating the cover to bring the pin elements 28 into registry with the vertical portions of the slots 27, whereby the cover may be disengaged from the rigid housing 13. The cover is mounted on the housing by following a reverse procedure.

The inner receptacle 20 is preferably made of disposable material, such as paper, cardboard or the like, as above explained. Therefore, when a surface is to be painted, a receptacle 20 containing the proper paint is engaged in the housing 13 and is supported therein with its outer surface in sealing engagement with the inner surface of housing 13 by engaging the cover 25 on the lower end of the housing 13 in the manner shown in Figures 1 and 3, whereby the inner receptacle 20 is firmly secured against the inside surfaces of the rigid outer receptacle. In this position, the tube 17 is submerged in the paint contained in the inner receptacle, and the apparatus may then be connected to the spray nozzle 11, as by means of a union connection 27', shown in Figure 1. After the paint spraying operation has been completed, the inner receptacle 20 and its contents may be removed by merely detaching the cover 25 from the rigid outer receptacle 13, allowing the inner receptacle to be withdrawn from the housing 13. The only cleaning required is the cleaning of the conduit 16 and tube 17, which may be easily accomplished by disconnecting the union coupling 27', whereby the conduit 16 and tube 17 may be easily flushed out with thinner or other cleaning liquid. The remaining surfaces of the housing 13 are cleaned, so that said surfaces do not come into direct contact with the paint at any time.

While a specific embodiment of an improved paint receptacle has been disclosed in the foregoing description, it will be understood that various modifications within the spirit of the invention may occur to those skilled in the art. Therefore, it is intended that no limitations be placed on the invention except as defined by the scope of the appended claims.

What is claimed is:

1. A paint receptacle comprising a rigid main housing member of circular horizontal cross section and having a frustoconical top end, a conduit secured axially in said main housing member and extending sealingly through said top end, said conduit being adapted to be connected to a paint spray nozzle, an inner receptacle of fibrous deformable material closely fitting inside said main housing member, said inner receptacle having a bottom wall and having a frusto conical, centrally apertured top end received sealingly against the inside surface of the top end of the main housing member the bottom edge of the inner receptacle being substantially flush with the bottom edge of the main housing member, and a bottom cover

receiving and detachably secured to the lower portion of the main housing member, said bottom cover engaging the bottom edge of said inner receptacle to force said inner receptacle upwardly into sealing engagement with the inner surfaces of said main housing member.

2. A paint receptacle comprising a rigid main housing member of circular horizontal cross section and having a frustoconical top end, a conduit secured axially in said main housing member and extending sealingly through said top end, said conduit being adapted to be connected to a paint spray nozzle, an inner receptacle of fibrous deformable material closely fitting inside said main housing member, said inner receptacle having a bottom wall and having a frusto conical, centrally apertured top end received sealingly against the inside surface of the top end of the main housing member, the bottom edge of the inner

receptacle being substantially flush with the bottom edge of the main housing member, and a flanged bottom cover receiving and engaging the bottom edge of said inner receptacle, the flange of said cover being formed with a plurality of L-shaped locking slots, and locking pins on said main housing member engageable in said slots to detachably secure the bottom cover to said main housing member and to force the inner receptacle upwardly into sealing engagement with the inside surfaces of said main housing member.

References Cited in the file of this patent

UNITED STATES PATENTS

1,614,532	Mobley	Jan. 18, 1927
2,556,311	Winkler	June 12, 1951