

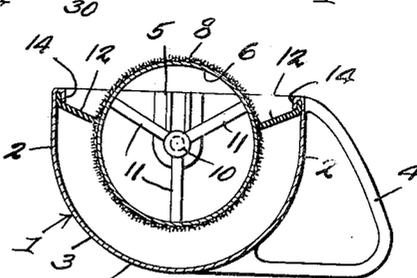
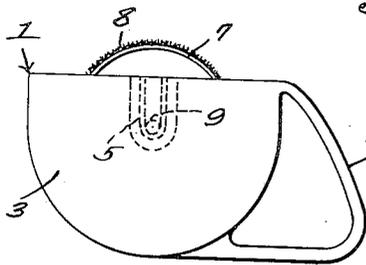
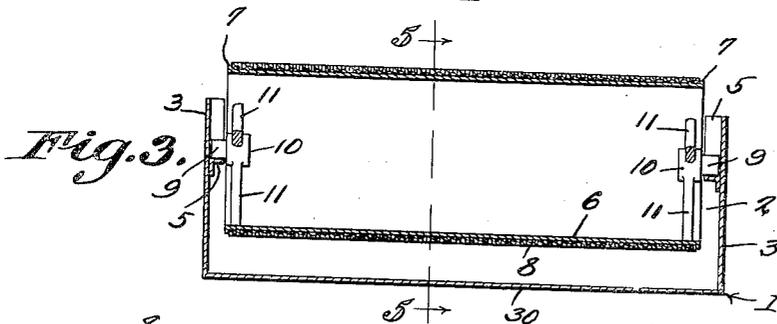
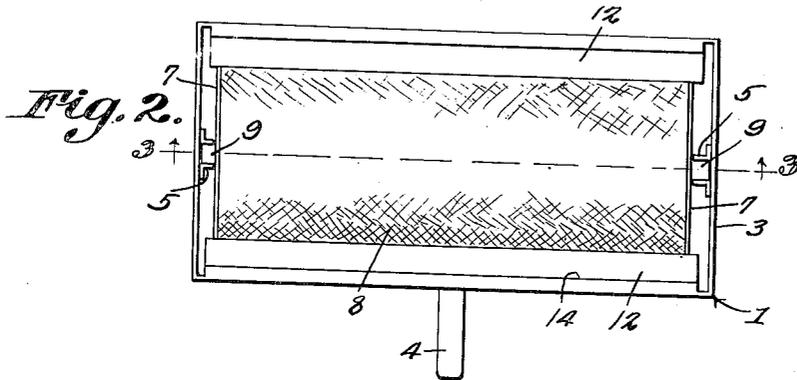
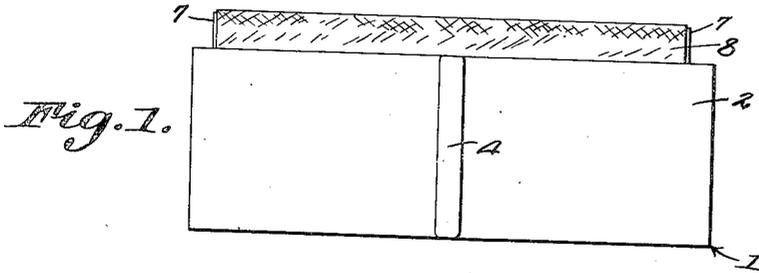
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2,548,653

CEILING PAINTER

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UNITED STATES PATENT OFFICE

2,548,653

CEILING PAINTER

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2 Claims. (Cl. 15—132.5)

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The device forming the subject matter of this application is adapted to be employed for applying paint or other pigment to a ceiling, the article being hand-portable.

The invention aims to improve the construction of the tank which contains the pigment, to improve the construction of the cylindrical member whereby the pigment is applied, to provide novel means for mounting the applying member removably in the tank, and to supply an article of the kind described, wherein both the applying member and the tank will be of strong construction.

A mechanic who abides by what is claimed may make such changes as his skill may dictate, without departing from the spirit of the invention.

In the accompanying drawings:

Figure 1 shows, in side elevation, a device constructed in accordance with the invention;

Figure 2 is a top plan;

Figure 3 is a vertical longitudinal section;

Figure 4 is an end elevation; and

Figure 5 is a transverse section on the line 5—5 of Fig. 3.

In carrying out the invention, there is provided an elongated, open topped tank 1, which may be of approximately semi-cylindrical cross section. The tank 1 comprises side walls 2 and end walls 3, the bottom of the tank being indicated at 30.

A handle 4 is provided and may be of various shapes. The handle 4 is located midway between the end walls 3, in order that the tank may balance properly in the hand of an operator. The handle is shown as of loop shape, its upper end being secured to one of the side walls 2, at the upper edge of said side wall, the lower end of the handle being secured to the said side wall at the place where that side wall merges into the bottom 30. The handle 4, thus, reinforces the tank 1, it being recalled that the tank is adapted to contain a quantity of paint or other pigment (not shown).

Bearings 5 are mounted on the inner surfaces of the end walls 3 of the tank 1 and are open at their upper ends, the bearings extending upwardly to the upper edges of the side walls and serving to reinforce those parts.

An applying member is provided and includes an open ended cylindrical shell 6, extended into the tank 1 and upwardly above the upper portion of the tank. At its ends, the shell 6 is provided with circumscribing annular ribs 7. About the shell 6 is disposed a cylindrical, yieldable covering 8, held on the shell 6 against longitudinal movement, by engagement with the ribs 7. The covering has a frictional grip on the shell 6, and will

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rotate therewith, but the covering has resiliency enough so that it may be withdrawn from the shell, over either of the ribs 7, to permit a renewal of the covering.

Spaced shafts 9 are located at the ends of the shell 6 and are removably journaled in the bearings 5. At their inner ends, the shafts 9 are provided with hubs 10 from which radiate spokes 11, having their outer ends secured to the shell 6.

Owing to the fact that the shell 6 is open at its ends, throughout its entire cross section, the paint or other pigment in the tank 1 can enter the shell. The shell therefore will not float on the paint and detach the shafts 9 from the bearings 5, by upward movement. The shafts 9 cooperate with the end walls 3 of the tank 1 to space the ends of the applying member 6—8 from the end walls.

Flexure wipers 12, which are at least as long as the applying member 6—8, are located within the tank 1 and bear upon the covering 8 of the applying member, the wipers having a downward and inward slant. The function of the wipers is to return surplus pigment to the tank 1 as the applying member 6—8 is rotated. Any suitable means may be provided for connecting the upper edge portions of the wipers with the tank 1. If desired, the upper edge portions of the wipers 12 may be securely but removably held between the upper portions of the side walls 2 and downwardly projecting flanges 14 carried by the side walls 2 at the upper edges thereof.

In practical operation, the handle 4 is received in the hand of an operator, and the applying member 6—8 is rotated by contact with the ceiling to be painted. The applying member 6—8 takes up pigment from the tank 1 and applies it to the receiving surface. The wipers 12 return surplus pigment to the tank 1.

There is an advantage in having the short shafts 9, rather than a single shaft extended entirely through the shell 6, since, owing to the shaft construction shown at 9, the inside of the shell 6 is open and unencumbered, throughout substantially the entire length of the shell, and the shell may be cleaned easily.

The device forming the subject matter of this application is simple in construction, but it will be found advantageous for the end in view. The applying member 6—8 may be detached quickly and easily from the tank 1, and both the tank and the applying member then are in condition to be cleaned of paint which may have adhered to them.

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What is claimed is:

1. A hand portable device for applying pigment to a ceiling, comprising an elongated tank having an open side, bearings secured to the end walls of the tank having open ends disposed towards the open side of the tank, a cylindrical shell, shafts extending from the ends of the shell, mounted within the bearings, said cylindrical shell extending through the open side of the tank, said cylindrical shell adapted to pick up material within the tank and carry the material to a point exteriorly of the tank as the shell rotates, wiper blades secured to opposite sides of the tank adjacent to the open side, said blades extending inwardly and downwardly and in contact with the periphery of the cylindrical shell, removing surplus material from the cylindrical shell, and a handle extending from the tank.

2. A hand portable device for applying pigment to a ceiling, comprising a tank in which a pigment is contained, said tank having an open side, a rotary cylinder removably mounted within the tank adapted to pick up material within the tank and deliver material to a surface exteriorly of the tank when the device is moved over said sur-

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face, a handle in the form of a loop, the lower end of the handle extending from the upper edge of the tank and being secured to the tank at the point where the side wall of the tank merges into the bottom whereby the device may be conveniently operated directly above the head or from a point directly in front of the operator by gripping either the lower portion or the upper portion of the handle.

CECIL E. CROMWELL.

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