April 10, 1951

M. BICK

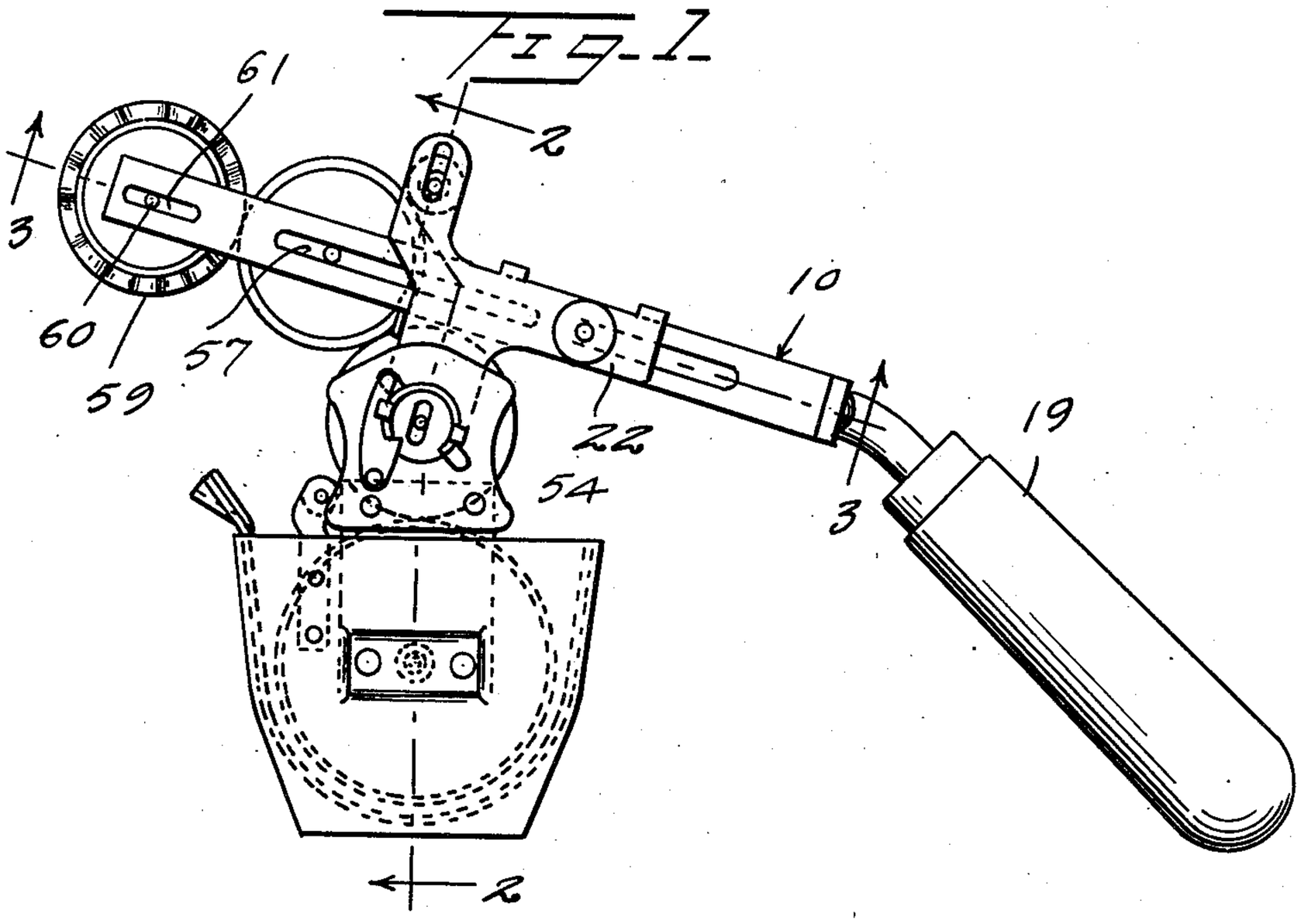
PAINT APPLICATOR

2,548,580

Filed Jan. 23, 1950

2 Sheets-Sheet 1

Fig. 1.



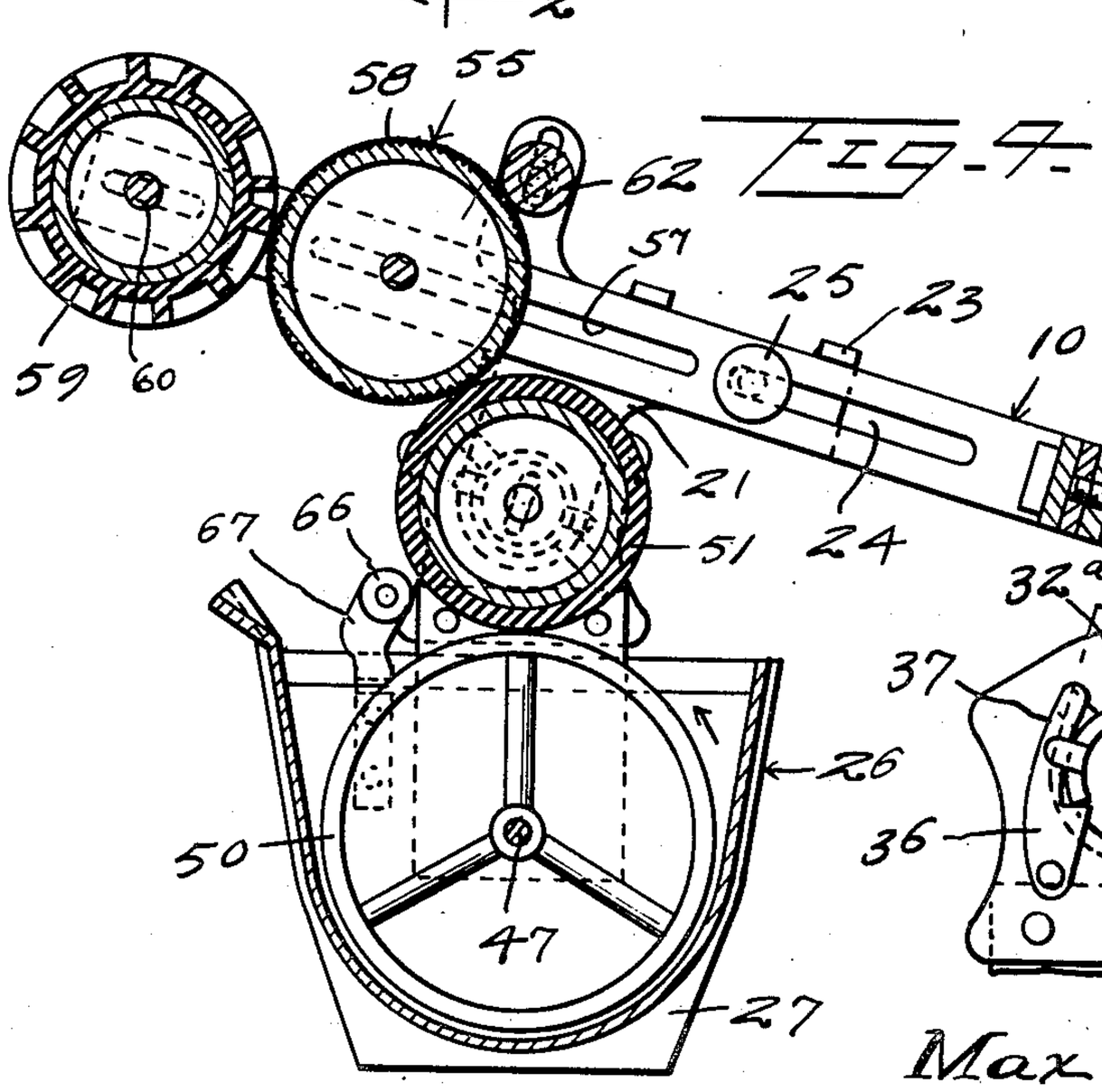


Fig. 4.

Fig. 5.

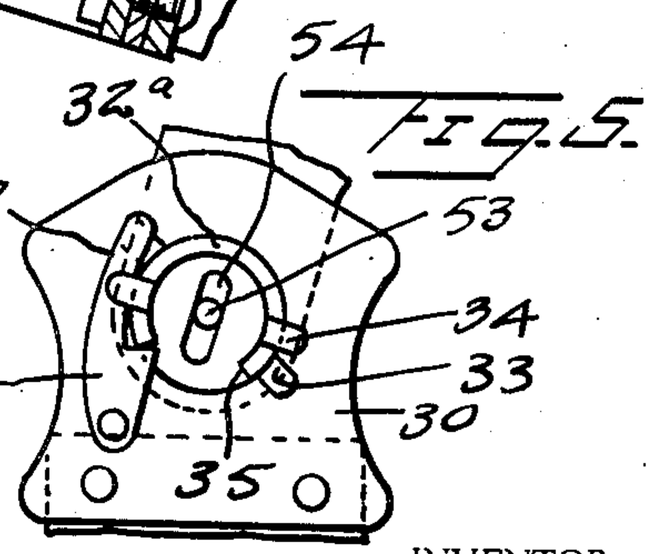


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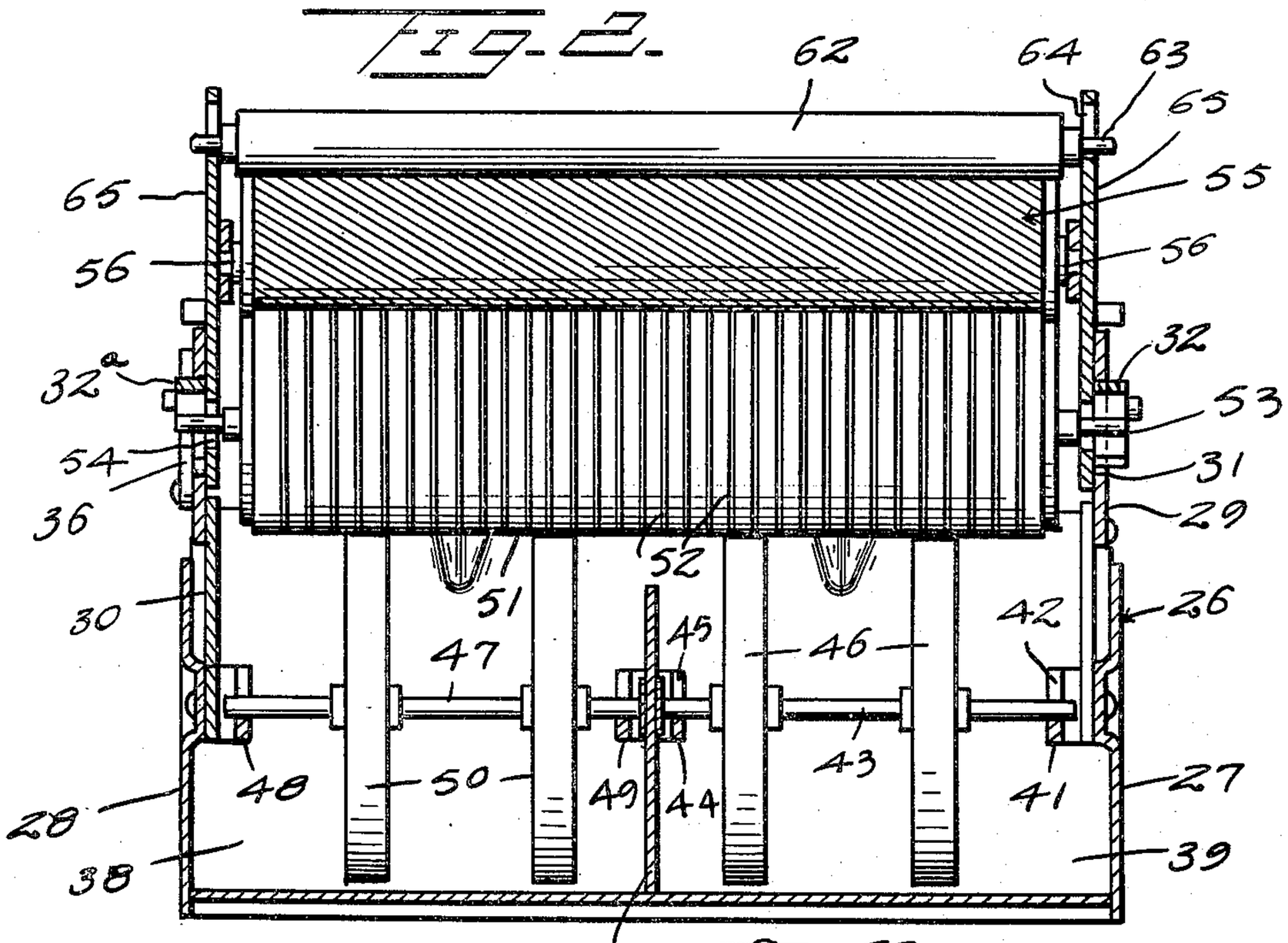
Fig. 2.



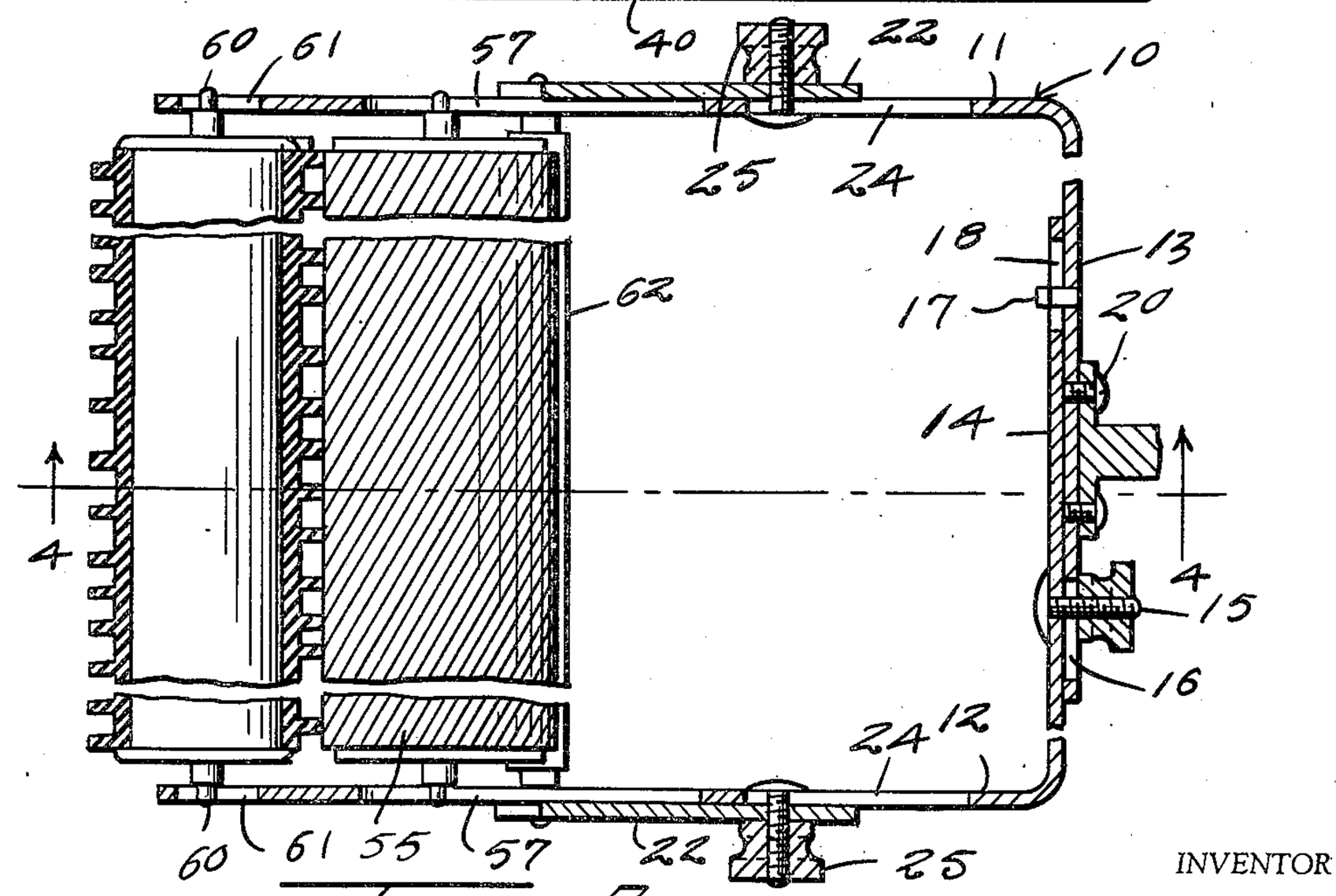


Fig. 3.

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PAINT APPLICATOR

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3 Claims. (Cl. 91—62.5)

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This invention relates to a decorating device for walls or other flat surfaces.

An object of this invention is to provide a decorating device for transferring paint or other surfacing material to walls or other flat surfaces, the device being so constructed that, if desired, two colors may be applied at one application with the colors being blended so as to produce the desired surface decoration.

Another object of this invention is to provide in a decorating device of this kind, means whereby a relatively small amount of material will be withdrawn from the reservoir by the dipping rollers, so that there will not be a waste of material.

A further object of this invention is to provide in a decorating device of this kind relatively narrow dipping rollers which transfer the material in ribbons to a long roller, and the ribbons on the long roller are transferred to a spirally grooved or serrated roller of the same length as the long roller, and the material is then transferred from the spiral roller to the decorating roller. By providing the spiral roller the ribbons on the long roller will be evenly spread out along the length of the spiral roller for transfer to the decorating roller. An idler roller engaging the spiral roller also serves to smooth out the material on the spiral roller so that the coating on the decorating roller will be distributed throughout the length of the latter.

With the above and other objects in view, my invention consists in the arrangement, combination and details of construction disclosed in the drawings and specification, and then more particularly pointed out in the appended claims.

In the drawings:

Figure 1 is a detailed side elevation of a decorating device constructed according to an embodiment of this invention;

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

Figure 3 is a sectional view taken on the line 3—3 of Figure 1.

Figure 4 is a sectional view taken on the line 4—4 of Figure 3.

Figure 5 is a fragmentary end elevation of the device.

Referring to the drawings, the numeral 10 designates generally a U-shaped frame which is formed with parallel side members 11 and 12 and with an extensible bight portion formed of overlapping bars 13 and 14 secured together in adjusted position by means of a bolt 15 engaging through an elongated slot 16 formed in the bar 13. The bar 13 has a T-shaped member 17 secured thereto and projecting through a slot 18 formed in the bar 14.

A handle 19 is secured by fastening means 20 to the bar 13 and projects rearwardly and downwardly as shown in Figure 1. The frame 10 has secured thereto a pair of depending arms 21 which are provided with rearward extensions 22 disposed in face abutting relation to the sides of

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the frame 10 and formed with inwardly projecting lugs 23. The arms 11 are formed with elongated slots 24, and bolts 25 are extended through the slots 24 so that the arms 21 may be adjusted lengthwise of the arms 11. A reservoir generally designated as 26 is disposed below the frame 10 and has secured to the opposite end walls 27 and 28 thereof upwardly projecting arms 29 and 30, respectively.

The arms 29 and 30 are each formed with an opening 31 through which an annular flange 32 carried by each arm 21 is adapted to loosely project. The arms 29 and 30 are formed with diametrically opposed slots 33 communicating with the opening 31, and a pair of diametrically opposed locking lugs 34 are carried by each flange 32, and the lugs 34 are initially extended through the slots 33 and then positioned on the outer sides of the arms 29 and 30 so that the arms 21 and 29 and 30 will be locked together.

The annular flange 32*a* at one end of the device is formed with a cutout 35 within which a locking member 36 pivotally carried by the arm 30 is adapted to engage. The locking member 36 includes an upwardly projecting arm 37 which is engageable between a locking lug 34 and the adjacent outer side of the arm 30. When the locking member 36 is in locking position as shown in Figure 5 the reservoir 26 will be locked against swinging movement with respect to the arms 21 in one direction but may have limited swinging movement in the opposite or rearward direction. The reservoir 26 is open at the top and is divided into a pair of chambers 38 and 39 by means of a dividing wall 40.

The inner side of the end wall 27 has fixed thereto a bearing 41 formed with an upwardly opening slot 42 within which one end of a roller shaft 43 is adapted to rotatably engage. The adjacent side of the dividing wall 40 has secured thereto a bearing 44 formed with an upwardly opening slot 45 within which the opposite or inner end of the shaft 43 is adapted to rotatably engage.

A pair of spaced apart narrow dipping rollers 46 are fixedly secured to the shaft 43 and are adapted to project outwardly slightly above the top of the reservoir 26. A second roller shaft 47 is rotatably mounted in a pair of slotted bearings 48 and 49 carried by the end wall 28 and the inner wall 40, and the shaft 47 has fixed thereto a pair of narrow rollers 50 disposed in spaced apart relation.

A cylindrical transfer roller 51 formed with peripheral grooves 52 has a shaft 53 which is rotatably disposed in elongated slots 54 which are formed in the arms 21. The rollers 46 and 50 are adapted to contact with the roller 51 so that the material from the reservoir 26 will be transferred to the roller 51.

A second transfer or spreader roller 55 has the shaft 56 thereof rotatably disposed in elongated slots 57 extending lengthwise of the side mem-

bers 11 of the frame 10, and the roller 55 is preferably a hard roller such as metal or the like and is provided with a spirally grooved or serrated surface 58 which contacts with the rubber or resilient surface of roller 51. The provision of the spiral grooves or serrations of roller 55 will provide for the spreading of the paint or other liquid along the length of roller 55.

A decorating roller 59 has the shaft 60 thereof rotatably mounted in a lengthwise elongated slot 61 carried by the side members 11, and the decorating roller 59 contacts with the second transfer roller surface 58 and is adapted to be engaged with a flat surface such as a wall or other surface to be decorated. An elongated idler roller 62 has the shaft 63 thereof journalled in upwardly elongated slots 64 carried by a pair of upwardly extending arms 65 which project upwardly from the arms 21. The idler roller 62 has a smooth peripheral surface and engages the surface of spreading roller 55.

In the event it is desired to stop rotation of the rollers 59, 55, and 51, relatively strong pressure may be applied to the frame 10 pressing the roller 59 relatively hard against the surface to which the paint or coloring material is being applied. Hard pressure applied to frame 10 will move decorating roller 59 rearwardly and will move roller 55 rearwardly, and at the same time roller 51 will move downwardly and forwardly in slots 54 and will then contact with a pair of stationary brake members 66 which are carried by a pair of upwardly projecting supporting arms 67 fixed to the end walls of the reservoir 26.

In the use and operation of this device the reservoir 26 may have the chambers 38 and 39 thereof filled with paint and other fluid, and, if desired, the colors of the fluid may be different in each chamber. The frame 10 is held by the handle 19, and the decorating roller 59 is then pressed against the surface which is to be decorated. Movement of roller 59 on the surface will cause rotation of rollers 55, 51, and 46 and 50 so that the coloring matter will be transferred from the dipping rollers 46 and 50 through the transfer rollers 51 and 55 to the decorating roller 59.

It will also be noted that this device can readily be used for applying a grained finish. It makes graining so easily accomplished that even an unskilled worker can do it.

With a device as hereinbefore described, a wall or other flat surface may be provided with a mottled or other decorative configuration, and the decoration of the surface can be accomplished at the same time that the paint or coloring matter is being applied to the surface.

What is claimed is:

1. A decorating device comprising a U-shaped frame, a pair of arms depending from the parallel sides of said frame, said dependent arms having outwardly extending circular flanges disposed at the ends thereof, a reservoir, a pair of upstanding arms fixed to the opposite ends of said reservoir, and each of said fixed arms being formed with an opening with one of said flanges rotatably mounted therein and a pair of diametrically opposed slots communicating with said opening, a pair of laterally projecting lugs carried by each flange engageable on the outer side of an upstanding arm for locking the depending and upstanding arms together, each said flange having a cutout, a locking member carried by each upstanding arm engaging in said cutout whereby to lock said depending and upstanding arms together against rocking movement in one direction, dipping rollers rotatably carried by and projecting into said reservoir, a decorating roller rotatably carried by said frame, a pair of transfer rollers rotatably carried by said frame interposed between said dipping and decorating rollers engaging the peripheries thereof, and one of said transfer rollers having a spirally ribbed peripheral spreading surface engageable with said dipping and decorating rollers.

2. A decorating device comprising a U-shaped frame, a pair of arms depending from the parallel sides of said frame, a reservoir, a pair of upstanding arms fixed to said reservoir, and each upstanding arm formed with an opening and a pair of diametrically opposed slots communicating with said opening, a cylindrical member carried by each depending arm loosely engageable in an opening of an upstanding arm, a pair of laterally projecting lugs carried by each cylindrical member engageable on the outer side of an upstanding arm for locking the depending and upstanding arms together, each cylindrical member having a cutout, a rockable locking member carried by each upstanding arm having a movable end engaging in said cutout whereby to lock said depending and upstanding arms together against rocking movement in one direction, dipping rollers rotatably carried by and projecting into said reservoir, a decorating roller rotatably carried by said frame, a pair of transfer rollers rotatably carried by said frame interposed between said dipping and decorating rollers, and a spreading roller rotatably carried by said frame and engaging one of said pair of rollers.

3. A decorating device comprising a U-shaped frame having a plurality of spaced longitudinally extending oppositely disposed slots, a pair of arms depending from the parallel sides of said frame, means adjustably securing said arms on said frame, a reservoir, a pair of upstanding arms fixed to said reservoir, and each upstanding arm formed with an opening and a pair of diametrically opposed slots communicating with said opening, a cylindrical member carried by each depending arm loosely engageable in an opening of an upstanding arm, a pair of laterally projecting lugs carried by each cylindrical member engageable on the outer side of an upstanding arm for locking the depending and upstanding arms together, each cylindrical member having a cutout, a rockable locking member carried by each upstanding arm engaging in said cutout whereby to limit rocking movement of said depending arms relative to the upstanding arms, dipping rollers rotatably carried by and projecting into said reservoir, a decorating roller rotatably carried by said frame having opposite ends slidably carried by said slots, and a pair of transfer rollers rotatably carried by said frame interposed between said dipping and decorating rollers, peripherally engaging therebetween and having the ends of each of said last mentioned rollers slidably carried by a pair of oppositely disposed slots.

MAX BICK.

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