April 28, 1959 E. R. KONIKSON 2,884,200

ANIMATED DISPLAY

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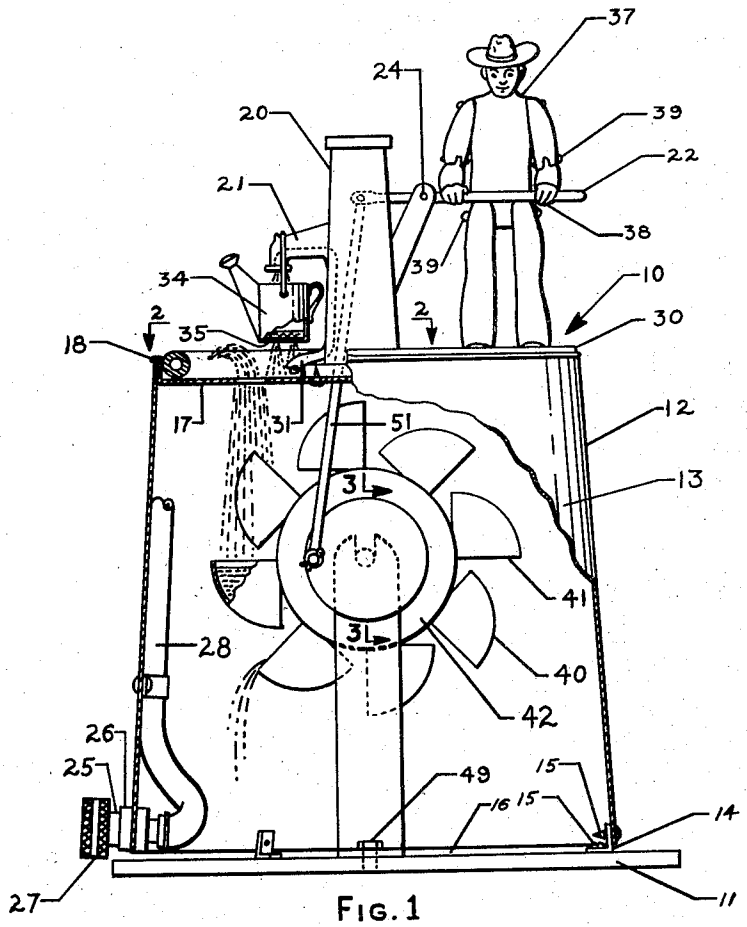


FIG. 1

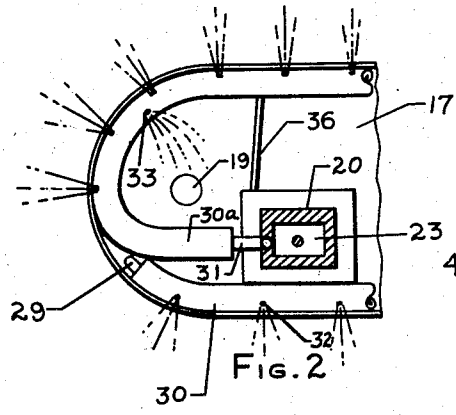


FIG. 2

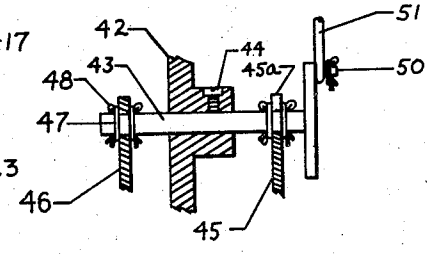


FIG. 3

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ANIMATED DISPLAY

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2 Claims. (Cl. 239—19)

This invention relates to moving displays and more particularly to such apparatus of the type which is operated by hydraulic power.

An object of my invention is to provide an animated display of simple and inexpensive construction and operation for use in the garden or lawn.

Another object of my invention is the provision, in apparatus of the class described, of a mechanism wherein flowing water serves the dual purpose of causing the display to operate, that is, causing the figure to appear as though he is pumping water, and of causing the water to be distributed for application to vegetation in the vicinity of the display.

A further object of my invention is to provide a water-operated animated display wherein the water produces a spray which is collected and caused to drive a pumping apparatus in such a manner as to make it appear that the figure of the man is pumping and to further make it appear that water is actually being pumped.

These and other objects and advantages of my invention will more fully appear from the following description made in connection with the accompanying drawings wherein like reference characters refer to the same or similar parts throughout the several views and in which:

Fig. 1 is an elevation view, partly broken away to show the working mechanism of the present invention;

Fig. 2 is a detail section view taken on a horizontal plane, substantially at 2—2 in Fig. 1; and

Fig. 3 is a detail section view taken on a substantially vertical plane as indicated at 3—3 in Fig. 1, and showing the rotating mechanism in a different position than that shown in Fig. 1.

One form of the present invention is shown in the drawings and is described herein.

The display device, which is indicated in general by numeral **10** has a rigid base **11** to which the upstanding framework is attached. As a portion of the framework, I provide a housing **12** which has a substantially continuous upright sidewall **13** therearound having the lower edge portion thereof secured to the base **11** as by angle brackets **14** which are respectively secured to the base and the wall as by screws **15**. The bottom edge of the wall **13** is spaced upwardly from the base **11** to define a water discharging slot or area **16** therebetween. A deck **17** is secured to the upper edge portion of the wall **13** and is provided with a continuous upstanding water-retaining wall portion **18** around the periphery thereof and crimped to the upper edge of the wall **13**. The deck **17** has a water-discharging aperture or drain hole **19** therein.

A pump structure **20** is affixed on the deck **17** as by screws and the pump structure is provided with the conventional spout **21** and handle **22**. It will be noted that the pump structure **20** is hollow at **23**, and a suitable fulcrum **24** is provided for mounting the handle **22**.

A short length of conduit, consisting in a rigid pipe **25** is affixed in the wall **13** as by nuts **26** for mounting a female hose coupling **27** on the display. A conduit

or hose **28** extends upwardly from the pipe **25** and along the inside of wall **13** and communicates with a length of tubing **29** which extends through and is affixed to the deck **17**. The tubing **29** is connected to a second length of hose **30** which lies on the deck **17** and extends around the periphery thereof. The discharge end **30***a* of hose **30** is coupled with a length of tubing **31** which is embedded in the sidewall of the pump structure **20** and extends upwardly therethrough into the spout **21** to deliver a small stream of water outwardly from the spout. The hose **30** is preforated along its length as at **32** and **33** for spraying water around the periphery of the display. It will be noted that the perforations **32** direct the water outwardly from the display and the perforation **33** directs water inwardly onto a portion of the deck **17**. The water supplied onto the deck in this manner will drain off through the hole **19**.

The stream of water which emits from the spout **21**, or actually the end of tubing **31**, is discharged into an ornamental watering can **34** which hangs by its bail from the spout **21**. The can **34** has an apertured bottom **35** to discharge the water therefrom onto the deck **17**.

Means are provided for confining the water applied to the deck in the area of the drain **19** and in the form shown, such means comprise a retaining wall **36** which is affixed as by soldering to the deck and which extends across the deck between the hose **30** and the pump structure **20**.

An ornamental figure of a person **37** is secured at its feet by screws or the like to the deck **17**, and the hands **38** of the figure are affixed as by gluing or the like to the pump handle **22**. The figure is jointed, as at the elbows, shoulders, and hips, by suitable pins **39** so as to permit the figure to bend in the manner of a person pumping water.

Means are provided for producing, in response to the flow of water, movement of the pump handle and of the figure of the person. Such means include a water wheel indicated in general by numeral **40** which has a plurality of cups **41** carried on a wheel **42** which is affixed to a shaft **43** as by set screw **44** and is supported from the standards **45** and **46** in alignment with and below the drain **19**. Shaft **43** extends through a bearing aperture in the standard **46** and through a slot **45***a* in the standard **45** and is retained against longitudinal movement by a plurality of washers **47** and keys **48**. The standards **45** and **46** are affixed as by bolts **49** to the base **11**. A pitman oscillator is provided between the shaft **43** and the pump handle for producing oscillatory movement of the pump handle. An eccentric **50** is affixed on the shaft **43** and is rotatably connected to a link **51**, the upper end of which is swingably connected to the inner end of the pump handle.

It will therefore be seen that when water is supplied into the hose **31**, a portion of the water is sprayed outwardly, and the remainder of the water is applied onto the deck **17**, partly through the perforation **33** and partly through the tubing **31** and the pump spout. The water will drain downwardly through the opening **19** into the cups **41** for rotating the water wheel and driving the eccentric for producing reciprocating movement of the link **51** and oscillatory swinging movement of the pump handle **22**. The water supplied serves a multiplicity of purposes in operating the pump handle and causing the figure of the person to move as though he were pumping water, and to apply water to the vegetation around the base **11** and to spray the remainder of the vegetation from the apertures **32** in the hose.

It will, of course, be understood that various changes may be made in the form, detail, arrangement and proportion of the parts without departing from the scope

of my invention which consists of the matter described herein and set forth in the appended claims.

What is claimed is:

1. An animated display to be operated from a supply of running water, comprising a framework having a deck with a water-retaining wall extending therearound and a drain hole therein, a simulated hand pump structure on the deck having a spout spaced above the deck and adjacent the drain therein, and also having a pump handle, a figure of a person secured on the deck in spaced relation from the drain, and having his hands secured to the pump handle, a perforated conduit lying on the deck in a loop around the deck periphery and connected with the supply of running water, the perforations in the conduit directing jets of water both outwardly from and onto the deck, the conduit also extending through the pump structure and discharging water through the spout onto the deck, a water wheel below the deck and in alignment with the drain therein and journalled on the framework for movement about a horizontal axis to be driven by the water draining downwardly from the deck, a connecting link eccentrically connected with the water wheel and also connected with the pump handle for swingably oscillating the same as the water wheel is driven, whereby the water supplied is discharged through the pump spout and onto the deck to drive the water wheel which produces oscillation of the pump handle and moves the figure of the person so as to simulate a pumping action.

2. An animated display to be operated from a supply of runing water, comprising a rigid base, a housing having an open bottom spaced from the base to permit water flow therebetween, means securing the housing to the base, the housing having a horizontal deck at the top thereof with an upright water-retaining wall extending around the periphery therein and deck also having a drain hole therein, a simulated hand pump structure on

the deck, a figure of a person on the deck and having hands secured to the pump handle, a perforated conduit lying on the deck and having the inlet end extending downwardly through the deck and secured to the housing sidewall with a hose fitting thereon, the other end of the conduit extending through the pump structure and discharging water through the pump spout onto the deck, a pair of upright standards affixed to the base in spaced relation with each other, one standard having a bearing aperture therein, the other standard having a slot therein opening upwardly through the top of the standard, a shaft extending through said bearing aperture and lying in said slot to be rotatable on the standards, means on the shaft restricting endwise movement thereof and being constructed to permit removal of the shaft from the bearing aperture when the shaft is lifted out of the slot, a water wheel below the deck and in alignment with the drain therein, and affixed to said shaft for rotation therewith, and means drivably connecting the shaft with the pump handle for oscillating the handle when the shaft is rotated.

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