Dec. 3, 1929. C. F. SMITH 1,737,981

DRAIN FOR WASHING MACHINES

Filed Aug. 14, 1926

Fig. 1.

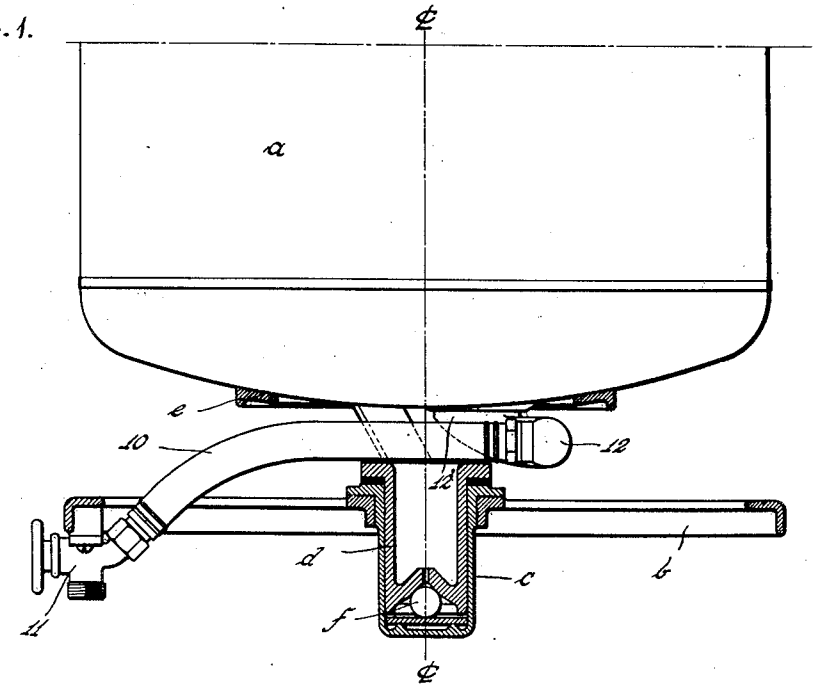
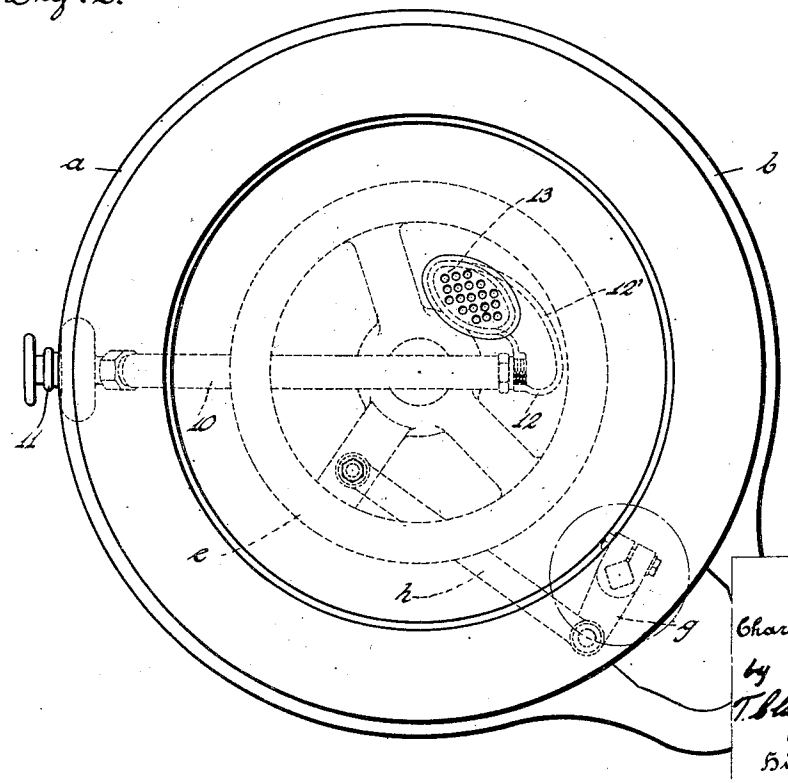


Fig. 2.



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Patented Dec. 3, 1929 1,737,981

UNITED STATES PATENT OFFICE

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DRAIN FOR WASHING MACHINES

Application filed August 14, 1926. Serial No. 129,249.

This invention relates generally to washing machines of the type having an oscillating tub, and has particular reference to means for draining the water from a tub of this sort.

The aim of the present invention is to provide, in machines of this sort, improved drains having a hose connected at one end to the tub and at the other end to a stationary part, such as a base, the hose being so connected and arranged that it will withstand, for a long period of time, the bending action to which it is subjected when the tub is oscillated. More particularly, in accordance with the present invention, the hose is so arranged as to pass from one side of the axis about which the tub oscillates to the other side so that the hose is of relatively long length and, therefore, the bending strains exerted on the hose are considerably less than would be the case if the hose were connected to a tub at the same side of the axis thereof as is the hose connected to the base.

Other objects of the invention will be in part obvious and in part pointed out more in detail hereinafter.

The invention accordingly consists in the features of construction, combination of elements and arrangement of parts which will be exemplified in the construction hereinafter set forth, and the scope of the application of which will be indicated in the appended claim.

In the accompanying drawings, wherein I have shown, for illustrative purposes, one embodiment which the present invention may take, only those parts of the washing machine are shown as are necessary to fully explain the features of the present invention. In these drawings:

Figure 1 is a side elevational view of the tub and hose connection, the base of the washing machine being shown in central vertical section; and

Fig. 2 is a top plan view with the parts beneath the tub shown in dotted lines.

Referring to the drawings in detail, *a* designates the oscillating tub of any suitable construction; and *b*, the base of the machine. Carried by the base of the machine is a bearing member *c* into which extends a post *d* carrying a spider *e* on which the tub is supported. The post *d* rests on a bearing *f*. The tub may be oscillated in any suitable manner, as by means of a rotary crank *g* connected to one arm of the spider *e* by a pitman or connecting rod *h*. It is to be understood that when the crank *g* is rotated, the tub will oscillate back and forth about the center line indicated in Fig. 1.

The numeral 10 designates the flexible pipe or hose through which the water from the tub may be drained. One end of this hose is connected to the base, as by means of a drain cock 11, and the other end of the hose is connected to a scupper or drain member 12 secured to the tub. It will be observed from the drawings that the hose 10 extends diametrically through the center of oscillation of the tub, the arms of the spider being so disposed as to permit of this. The drain member 12 is connected to the tub to one side of the hose and has a curved portion 12′ to which the hose is secured. In the bottom of the tub over the mouth of the member 12 is a strainer 13.

It will be observed from the construction described that when the tub is oscillated, the hose will be bent or twisted back and forth and, owing to the fact that the hose extends through the axis of oscillation of the tub, the hose is of sufficient length to avoid sharp bends in the hose when the latter is flexed, and thus the hose, since the strains to which it is subjected are distributed throughout the length of the hose, is able to withstand the flexing and bending strains for a long period of time.

I claim as my invention:

In a washing machine and in combination, a base, an oscillating tub, a spider journalled in said base and carrying said tub, and a drain connection including a flexible hose connected at one end to said base at one side of the axis of oscillation of said tub and at its other end to said tub on the other side of the axis of oscillation thereof, said hose extending diametrically through said spider and through the axis of oscillation of said tub.

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