

Jan. 24, 1939.

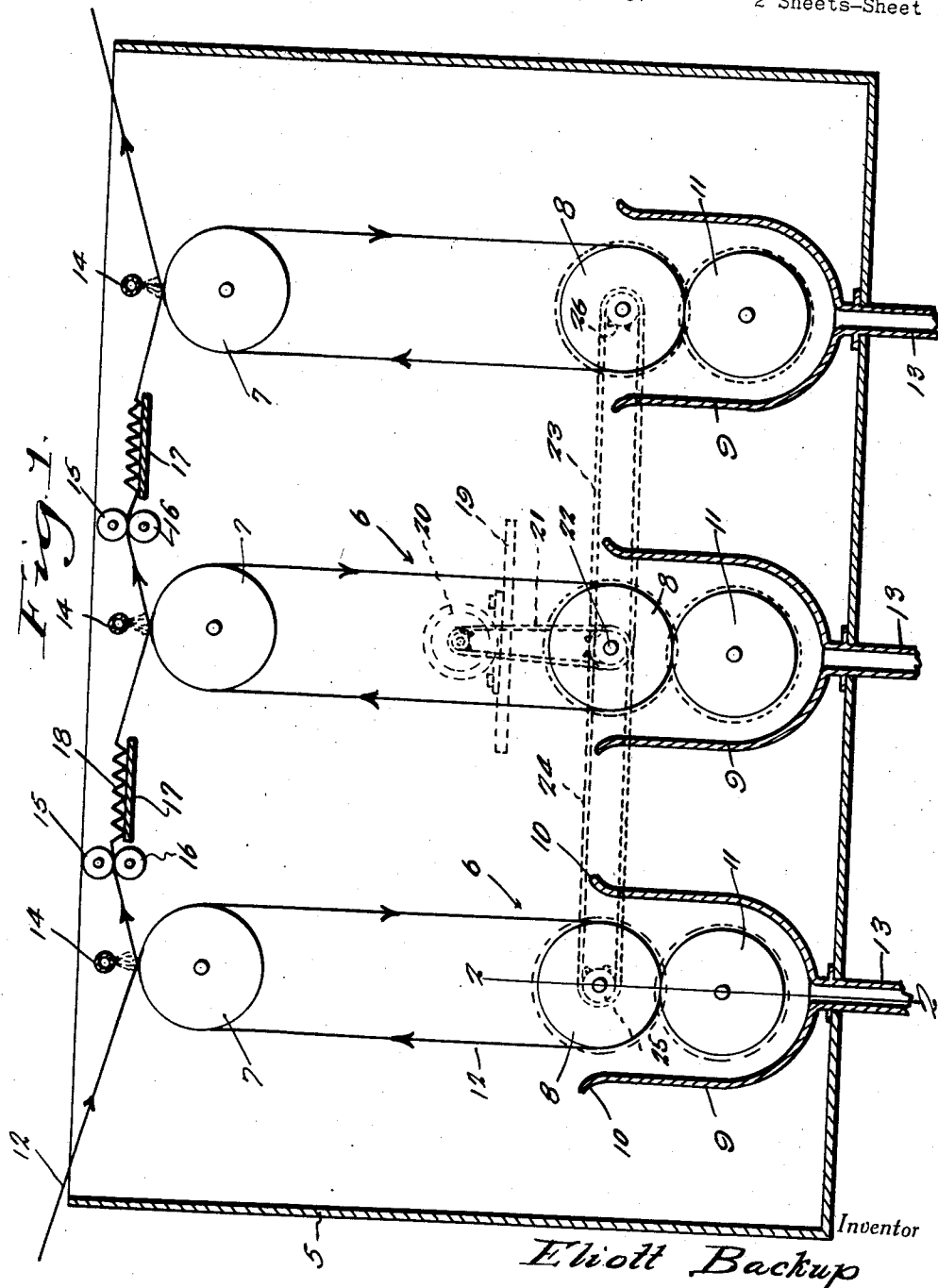
E. BACKUP

2,145,019

CLOTH WASHER

Filed March 31, 1937

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

Fig. 3.

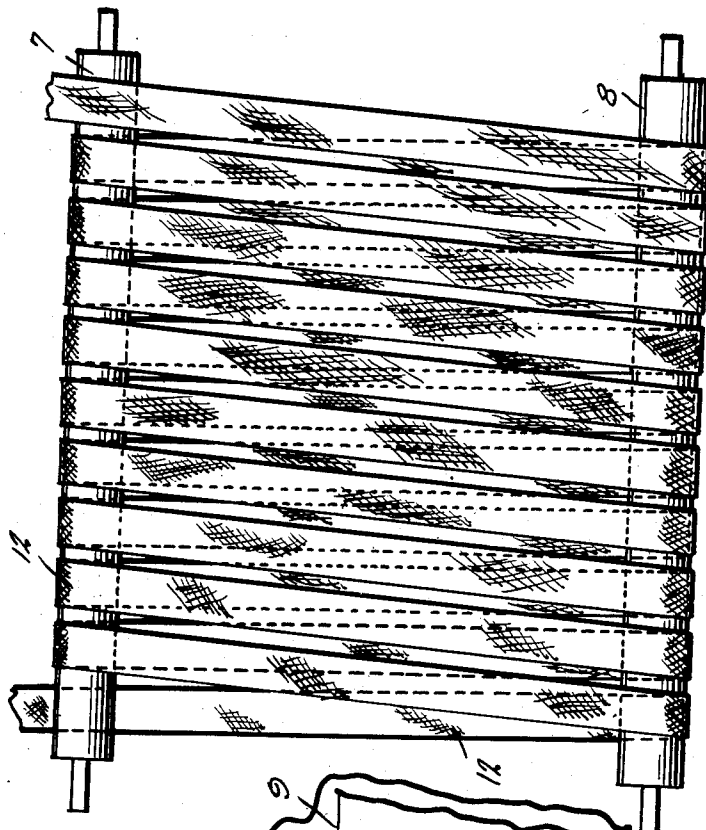
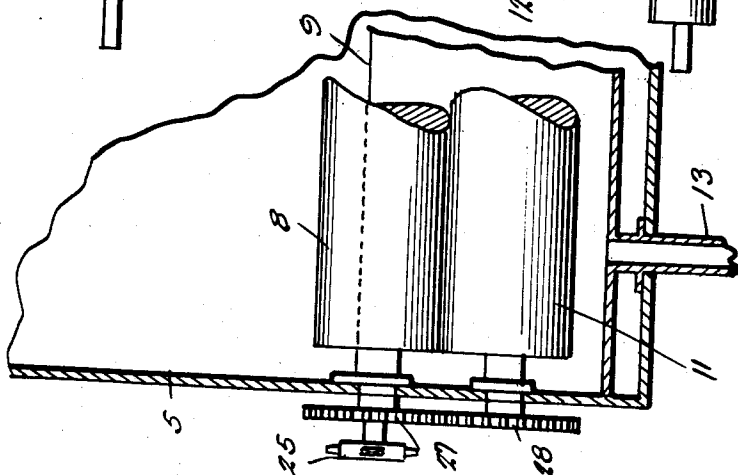


Fig. 2.



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CLOTH WASHER

Elliott Backup, Burlington, Vt.

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2 Claims. (Cl. 68-9)

This invention appertains to new and useful improvements in a means and method of washing or scouring cloth in strip form.

The principal object of the present invention is to provide means whereby strip cloth can be washed in a much more efficient manner than through the present means and methods in general use.

Another important object of the invention is to provide an apparatus for washing strip cloth which involves the method of applying water to the cloth at an elevated position from the point where the water is eliminated by squeezing or pressing means.

Other important objects and advantages of the invention will become apparent to the reader of the following specification.

In the drawings:—

Figure 1 represents a vertical sectional view through the apparatus.

Figure 2 is a fragmentary vertical sectional view through the pressing means.

Figure 3 is a side elevational view showing a pair of the rolls and the manner in which the strip cloth is disposed over the same.

Referring to the drawings wherein like numerals designate like parts, it can be seen that the numeral 5 denotes a large tank or tub which can have as many liquifying and pressing units such as is generally referred to by numeral 6, as is desired therein. Each of these liquifying and pressing assemblies consist of a pair of vertically spaced rolls 7-8 situated over a corresponding trough 9 having upwardly flared edges 10. Beneath the roll 8 is the presser roll 11 which bears against the roll 8 for eliminating water from the strip material 12. A drain pipe 13 extends downwardly from each of the troughs 9. It can also be seen that situated over the upper roll 7 is the sprinkling pipe 14 from which water escapes to the cloth strip 12. As can be seen in Figure 3, the cloth strip enters the apparatus over one end of the upper roll 7 and then passes downwardly to one of the lower rolls 8, where it extends upwardly again over the upper roll 7 at a point adjacent to where it first makes contact with the roll 7 and this convoluting over the rolls 7 and 8 continues until the lengths of both rolls 7-8 have been used. The strip then extends through the guide rolls 15-16 and across the small platform 17. At this point the strip is preferably slackened as at 18 before it reaches the next assembly 6. Thus it can be seen, that the cloth is wetted at an elevated point and this liquid is squeezed out at a lowered position. This continuous operation of wetting and pressing the

strip affords a thorough cleaning of the material. After each squeezing operation the water squeezed from the cloth escapes from the small tank 9 and the outlet 13 so that this dirty water will not reach the cloth which has been squeezed.

As is suggested in Figure 1, a suitable platform 19 is mounted adjacent the top 5 and on this is mounted an electric motor 20 which by way of the belt 21 drives the shaft 22 on which is located a sprocket for the chain 23 and a sprocket for the chain 24. The shaft of the roll of the first unit has a sprocket 25, while the roll of the last assembly has the sprocket 26 for its chain 23.

The rolls 8 and 11 are in driving relation by means of gears 27-28. (See Figure 2.)

While the foregoing specification sets forth the invention in specific terms, it is to be understood that numerous changes in the shape, size and materials may be resorted to without departing from the spirit and scope of the invention as claimed hereinafter.

Having described the invention what is claimed as new is:—

1. A cloth washing machine of the class described comprising a large tank, an upper horizontally arranged roller in the tank, a lower horizontally arranged roller in the tank spaced from the upper roller, the cloth passing in successive vertical flights over the rollers in a spiral manner and finally passing from the upper roller, means for spraying a cleansing medium upon the cloth as it passes over the top of the upper roller, a squeezing roller horizontally arranged below the lower roller and contacting the cloth passing under the lower roller, a small tank in which the lower roller and the squeezing roller are arranged for receiving the liquid squeezed from the cloth and a drain leading from the small tank for removing the liquid therefrom.

2. A cloth washing machine comprising a large tank, a plurality of sets of rollers horizontally arranged in said tank, each set including an upper roller, a lower roller spaced from the upper roller and a presser roller located below the lower roller and contacting the same, the cloth passing over each pair of upper and lower rollers in successive vertical flights in a spiral manner, with the last flight passing from the upper roller to the upper roller of the next set, means for spraying liquid upon the cloth as it passes over the top of each upper roller, the liquid being pressed from the cloth by the presser roller and means for receiving the liquid pressed from the cloth by each presser roller, said means including drain means.

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