G. S. BLAKESLEE.

WASHING MACHINE.

APPLICATION FILED NOV. 27, 1914.

1,293,676. Patented Feb. 11, 1919.

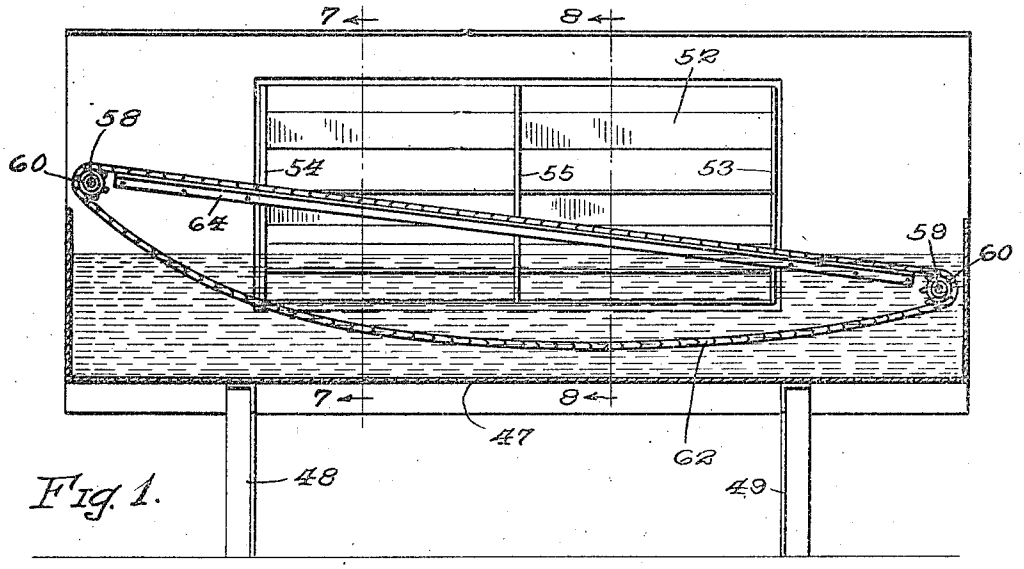


Fig. 1.

Fig. 2.

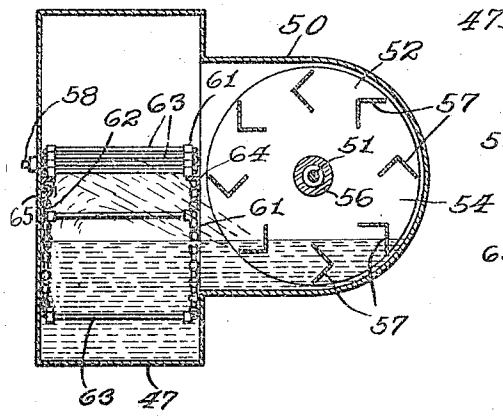
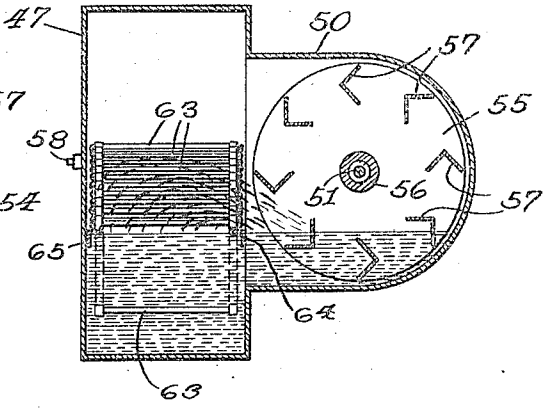


Fig. 3.



Witnesses:
L. B. Graham
W. A. Turner

Inventor:
George S. Blakeslee
By Brown & Watson.
Attys.

UNITED STATES PATENT OFFICE.

GEORGE S. BLAKESLEE, OF CHICAGO, ILLINOIS.

WASHING-MACHINE.

1,293,676. Specification of Letters Patent. Patented Feb. 11, 1919.

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To all whom it may concern:

Be it known that I, GEORGE S. BLAKESLEE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to washing machines, and has for its object to provide a new and improved construction in such machines by which a portion of the water thrown upon the conveyer by the paddle-wheel or similar device is directed upward into contact with the lower face of the dishes or other articles upon the conveyer while another portion of the water is directed above and upon the upper surfaces of such articles. The means by which I have accomplished this object are illustrated in the accompanying drawings and are hereinafter specifically described.

In the drawings,—

Figure 1 is a longitudinal section through my improved machine;

Fig. 2 is a cross-section taken substantially on line 7—7 of said Fig. 1;

Fig. 3 is a cross-section taken substantially on line 8—8 of said Fig. 1.

Referring to the drawings, 47 indicates a tank supported upon standards 48—49 and adapted to hold water up to a certain predetermined level, said water being adapted to be heated by any suitable means (not shown). 50 indicates a housing which extends from one side of the tank 47, as shown in Fig. 1. Revolubly mounted in the housing 50 upon a shaft 51 and adapted to be rotated by means of said shaft is a paddle-wheel 52 comprising heads 53—54 at its opposite ends and an intermediate bracing member 55 at about its middle point, the heads 53—54 and the member 55 being fixed upon a hub 56 mounted upon the shaft. Between each of the heads 53—54 and the intermediate bracing-member 55 are a plurality of trough-like paddles 57.

58 indicates a shaft revolubly mounted in the side walls of the tank 47, near its forward end, at about the level of the axis of the paddle-wheel 52. Another shaft 59 is revolubly mounted in the side walls of the tank 47 at its opposite end, some little distance below the level at which the water is adapted to stand in said tank. Mounted upon said shafts within the tank 47 at its opposite sides are sprocket-wheels 60 supporting sprocket-chains 61—62, between which are mounted cross-arms 63, the whole comprising an inclined endless belt adapted to be revolved through the medium of the shaft 58, which is to be driven from any suitable source of power so as to move the upper half of the belt to the left or up the incline in Fig. 1. Angle-iron supports 64—65 are provided for supporting the upper part of the belt in alinement opposite the paddle-wheel 52.

With the tank 47 filled with hot water up to a desired point, with the shaft 51 being rotated at comparatively high speed in clockwise direction in Figs. 2 and 3 and with the shaft 58 being rotated in counterclockwise direction in Fig. 1, the machine is ready for the washing operation. As will be readily understood, the paddle-wheel 52 in rotating at high speed in the housing 50 in such direction that the lower portion thereof travels toward the conveyer, forces a considerable volume of water laterally toward the conveyer. A considerable portion of the water which is thrown toward the conveyer at the right hand end of the machine as shown in Fig. 1, is thrown considerably above that end of the conveyer, and therefore acts to clean the upper portions or the upper surface of a dish or other article placed in position upon the conveyer. As the revolution of the conveyer continues carrying the article to be cleaned up the incline relative to the paddle-wheel, the amount of water being forced above the article to be cleaned gradually decreases, and a greater portion of the water forced toward the conveyer by the forward end of the paddle-wheel is thrown upward against the lower portion or surface of the article upon the conveyer. Thus by reason of the inclination of the conveyer relative to the paddle-wheel, a more thorough cleaning is effected than could otherwise be attained.

It will be understood that I do not restrict myself to the specific embodiment of my invention shown and described, except as hereinafter specifically claimed, my invention including generically the subject matter of the broader claims.

As will be readily understood, my device is not limited to use for washing dishes, inasmuch as it is designed for cleaning dishes or any other articles adapted to be

moved along a tank, such as automobile mud-guards, running-boards, or other parts which it is desired to have cleaned.

That which I claim as my invention, and desire to secure by Letters-Patent, is,—

1. A washing machine comprising a tank, means for supporting articles to be washed while they are moved longitudinally of the tank, and means disposed diagonally with reference to said supporting means and arranged to throw water laterally above and upon one portion of said supporting means, and below and against the under side of another portion thereof.

2. A washing machine comprising a tank, supporting means extending longitudinally of the tank in an inclined plane for supporting articles to be washed while they are moved longitudinally of the tank, and horizontally arranged water throwing means disposed laterally with reference to said supporting means and adapted by reason of the inclination of said supporting means to throw water laterally above and upon one portion thereof and below and against the under side of another portion thereof.

3. A washing machine comprising a tank, supporting means extending longitudinally of the tank in an inclined plane for supporting articles to be washed while they are moved longitudinally of the tank, and a horizontally arranged paddle-wheel disposed laterally with reference to said supporting means and arranged so that when rotated in such direction that the lower portion thereof travels toward said supporting means it will throw water laterally above and upon one portion thereof, and below and against the under side of another portion thereof.

4. In a washing machine, the combination of a tank adapted to contain wash water, a traveling conveyer for the articles to be washed, the operative portion of said conveyer being disposed diagonally with reference to the surface of the water in the tank, and horizontally mounted paddle-wheel mechanism disposed laterally with reference to said conveyer and arranged so that when rotated in such direction that the lower portion thereof moves toward the conveyer it will throw water laterally above and upon one portion thereof, and below and against the under side of another portion thereof.

GEORGE S. BLAKESLEE.

Witnesses:
M. A. HUNTER,
W. A. FURNNER.