C. S. CLARK.

WASHING-MACHINE.

No. 186,801. Patented Jan. 30, 1877.

Fig. 1.

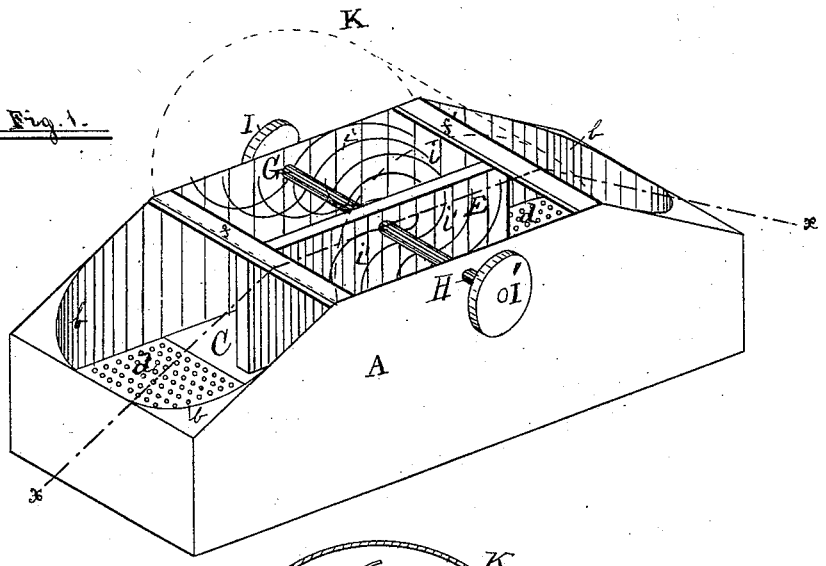
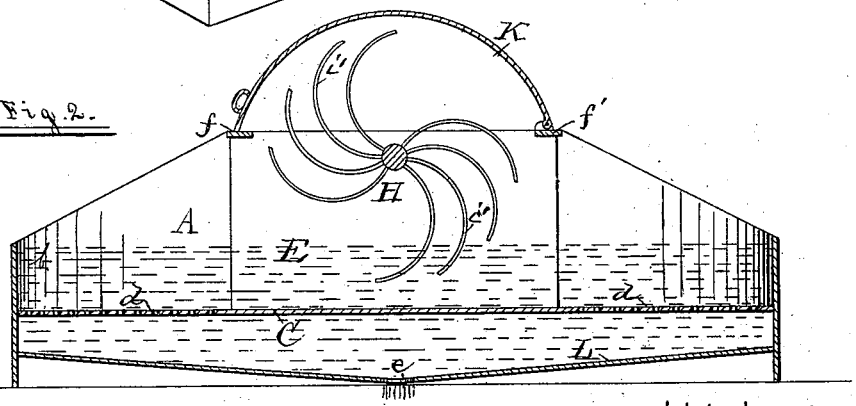



Fig. 2.




WITNESSES.

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CHARLES S. CLARK, OF NEW ORLEANS, LOUISIANA.

## IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **186,801**, dated January 30, 1877; application filed August 4, 1876.

*To all whom it may concern:*

Be it known that I, CHARLES S. CLARK, a resident of the city of New Orleans, and State of Louisiana, have invented a certain new and useful Improvement in Machine for Cleaning Fibers; and I do hereby declare the following to be a full, clear, and correct description of the same, reference being had to the annexed drawing, making a part of this specification.

This invention relates to an improved fiber-cleaning machine. It possesses advantages over the ordinary gin in this: That it prevents the excessive loss of short fibers, while at the same time it produces a much cleaner, and, consequently, a more merchantable, article.

The construction of my invention, as well as the operation thereof, will be better understood by referring to the accompanying drawing, whereon—

Figure 1 is a perspective view of the machine; and Fig. 2 a longitudinal section through the line *x x* thereof.

A is a tank, which, in the operation of the invention, is partially filled with water. Its corners are rounded, as shown at *b*, and it is provided, throughout its whole length, with a false bottom, C, having a limited portion of each end perforated, as at *d*, to permit of the water, dirt, &c., to pass through to the lower section of the vessel, the bottom L of which is made sloping, and provided at its lowest extremity with an outlet, *e*, through which the water and dirt may at any time be withdrawn. E is a short partition, which is erected on the plain or solid portion of the false bottom C, on a line midway between the sides thereof. The top of this partition is on a level with the top of the vessel, to the sides of which it is secured by cross pieces or braces *f f'*. Across the tank A, with bearings in the sides and partition thereof, are operated shafts G and H, which revolve in opposite directions, each provided with curved arms or beaters *i i'*, the outer extremities of which nearly touch the false bottom C as they are being revolved. The projecting ends of the shafts G and H are provided with pulleys I I'; or, should it be preferred, cranks may be substituted in lieu of the same. K is a hinged cover, which is applied over the beaters to confine within the vessel the water and material which is being operated upon.

An essential feature of my invention is the curving of the beaters, as shown, the object being to have their backs rather than their fronts or ends to first strike the material.

The revolving of the beaters in opposite directions necessarily causes the material operated upon to be moved around the vessel, so that it is alternately acted upon by the two sets of beaters, to each of which new surfaces are repeatedly presented.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a fiber-cleaning machine, the curved beaters *i i'*, arranged upon shafts to revolve in opposite directions, substantially as described, and for the purpose set forth.

2. In combination with the tank A, provided with rounded corners *b*, sloping bottom L, false bottom C, and partition E, the shafts G and H, provided with curved beaters *i*, substantially as described, and for the purpose specified.

In testimony whereof I have hereunto affixed my name.

CHS. S. CLARK.

In presence of—
J. C. HUBBELL,
H. N. JENKINS.