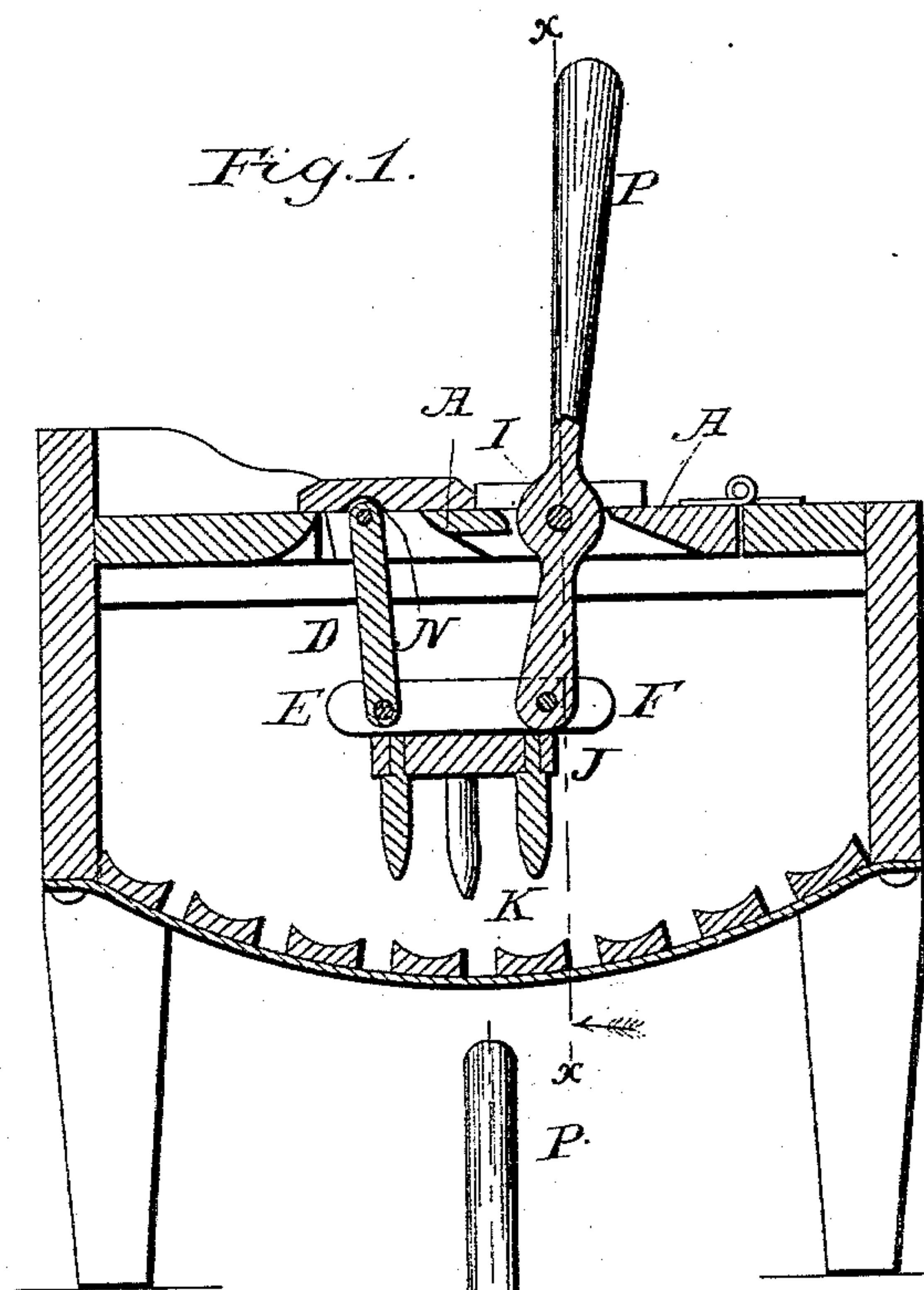


(Model.)

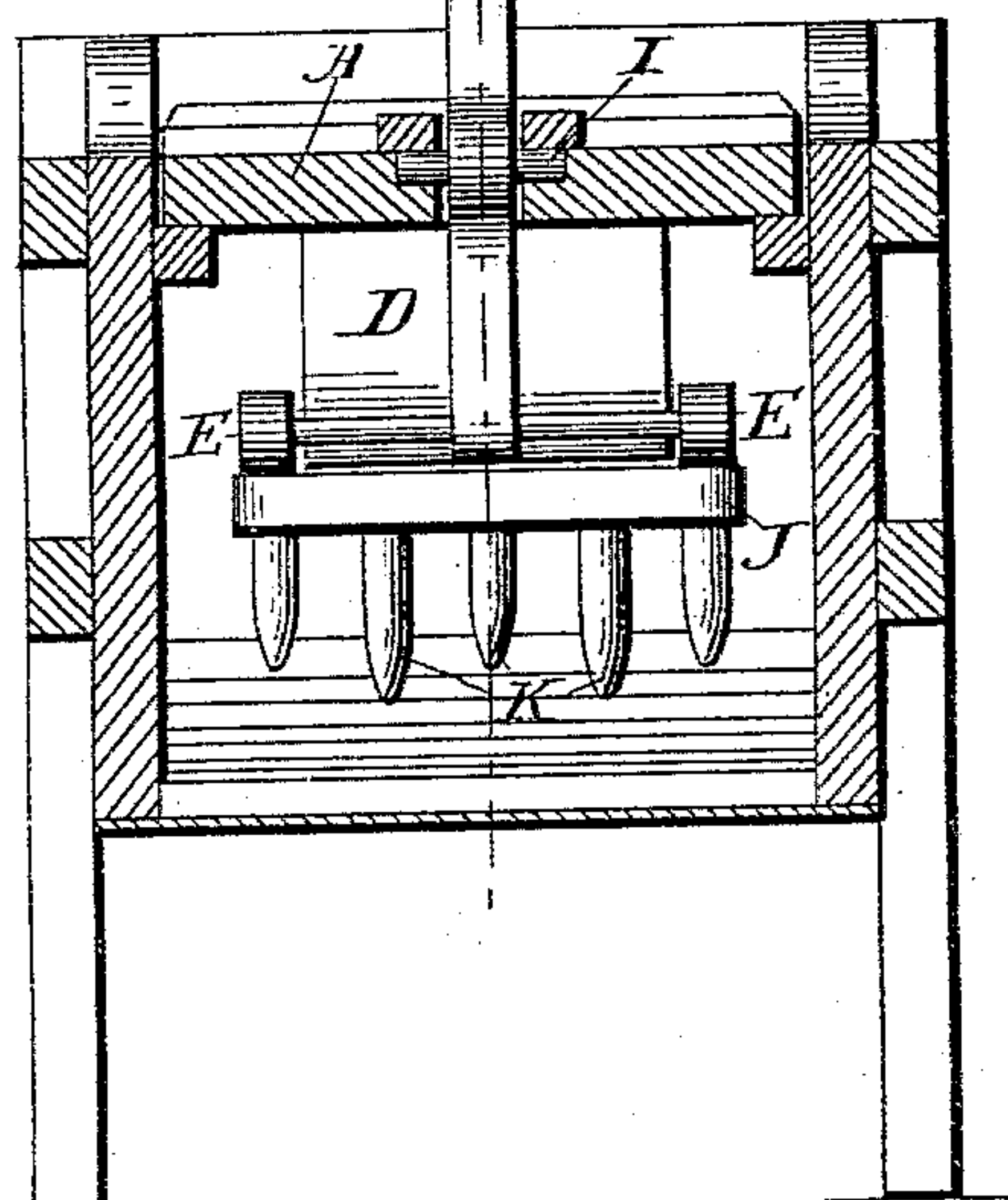
G. W. RAY.  
WASHING MACHINE.

No. 331,910.

Patented Dec. 8, 1885.



*Fig. 2.*



Witnesses:

*S. R. Corrick*  
*F. D. Chaffee*

Inventor

*G. W. Ray*

# UNITED STATES PATENT OFFICE.

GEORGE W. RAY, OF TARKIO, MISSOURI.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 331,910, dated December 8, 1885.

Application filed November 20, 1883. Serial No. 112,266. (Model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. RAY, of Tarkio, in the county of Atchison and State of Missouri, have invented a new and useful  
5 Improvement in Washing-Machines, of which the following is a specification.

My invention consists in certain details of construction, which will first be described, and then specifically pointed out in the claim.

10 In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is a side sectional view, and Fig. 2 an end sectional view, both showing the parts in the construction as they are in the machine  
15 when ready for operation.

In the lid or cover A are pivoted in suitable bearings, N and I, swinging bars D and P, to the lower ends of which is pivoted, also in bearings E and F, Fig. 2, a pin-board, J, in  
20 which the pins K are inserted in the ordinary manner, as shown. The bar P extends through and above the lid A, and the upper portion forms the handle by which motion is given to the working parts. The pin-board J, at what-  
25 ever angle the bars D and P may be, will be held nearly parallel with the lid A, as is readily understood. The pivots at N and I are placed a little wider apart than those at E and

F, for the purpose of causing the pins K to incline a little toward the center when swung 30 toward either end of the machine. The pins do not work upon either the bottom or sides of the suds-box, but come in contact only with the goods as they float loosely in the water; and with their striking or beating motion the 35 resistance of the water is found to be sufficient to insure rapid cleansing, while the operation is easier than if the goods were forced against a hard surface.

Having thus described my invention, what I 40 claim as new, and desire to secure by Letters Patent, is—

In a washing-machine, the combination of the board J, having pins K inserted therein, the lid A, and bars D and P, pivotally con- 45 nected to board J and to lid A, bar P being extended above the lid to form an actuating-handle for said board and pins, all substantially as shown and described.

In testimony that I claim the foregoing I 50 have hereunto set my hand this 14th day of November, 1883.

GEORGE W. RAY.

Witnesses:

STEPHEN SHACKLETON,  
WILLIAM G. SPEECE.