

(Model.)

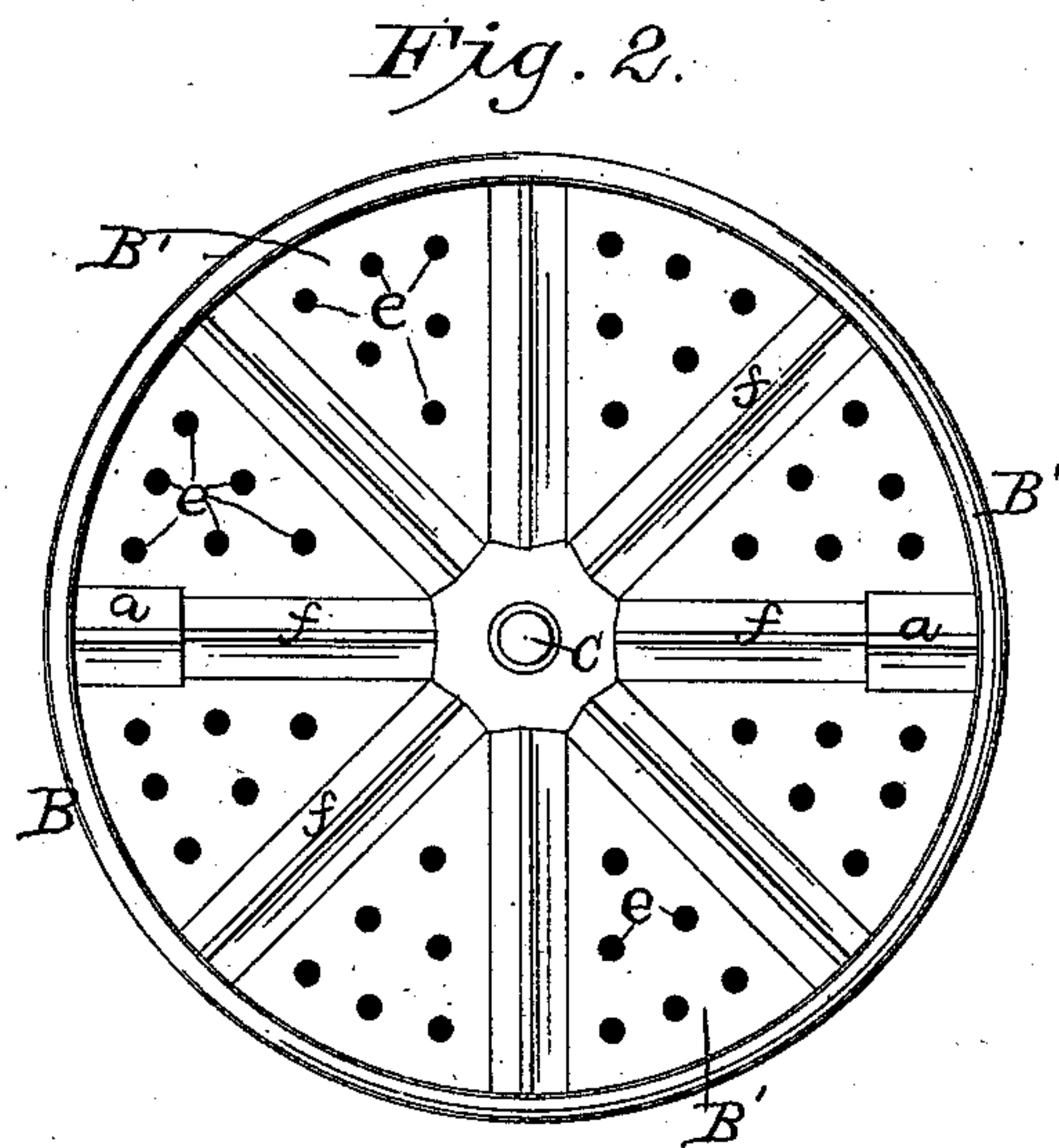
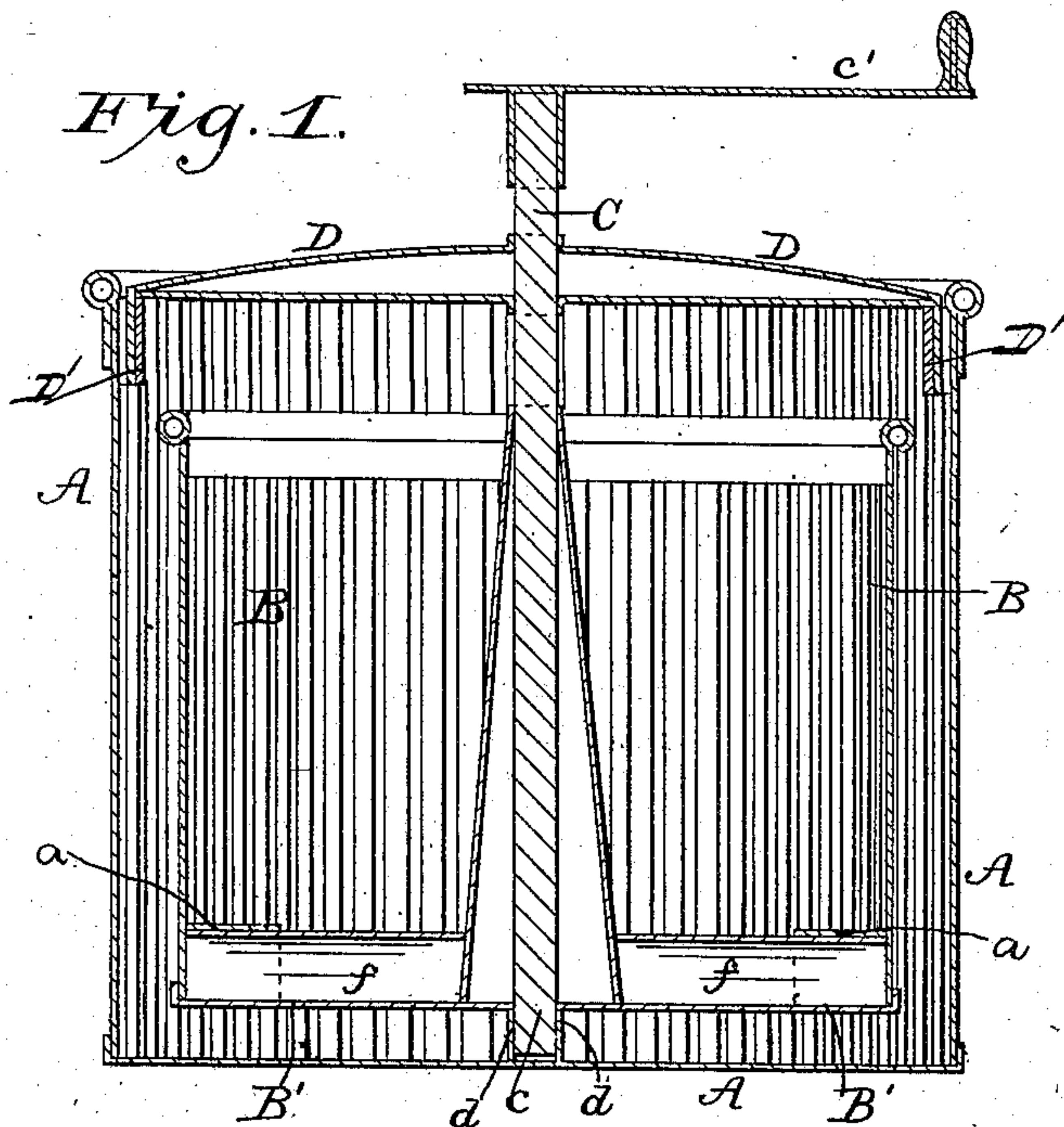
2 Sheets—Sheet 1.

V. VAN DENBURGH.

WASHING MACHINE.

No. 255,216.

Patented Mar. 21, 1882.



WITNESSES

J. M. Burnham.
Frank Martin.

INVENTOR

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(Model.)

2 Sheets—Sheet 2.

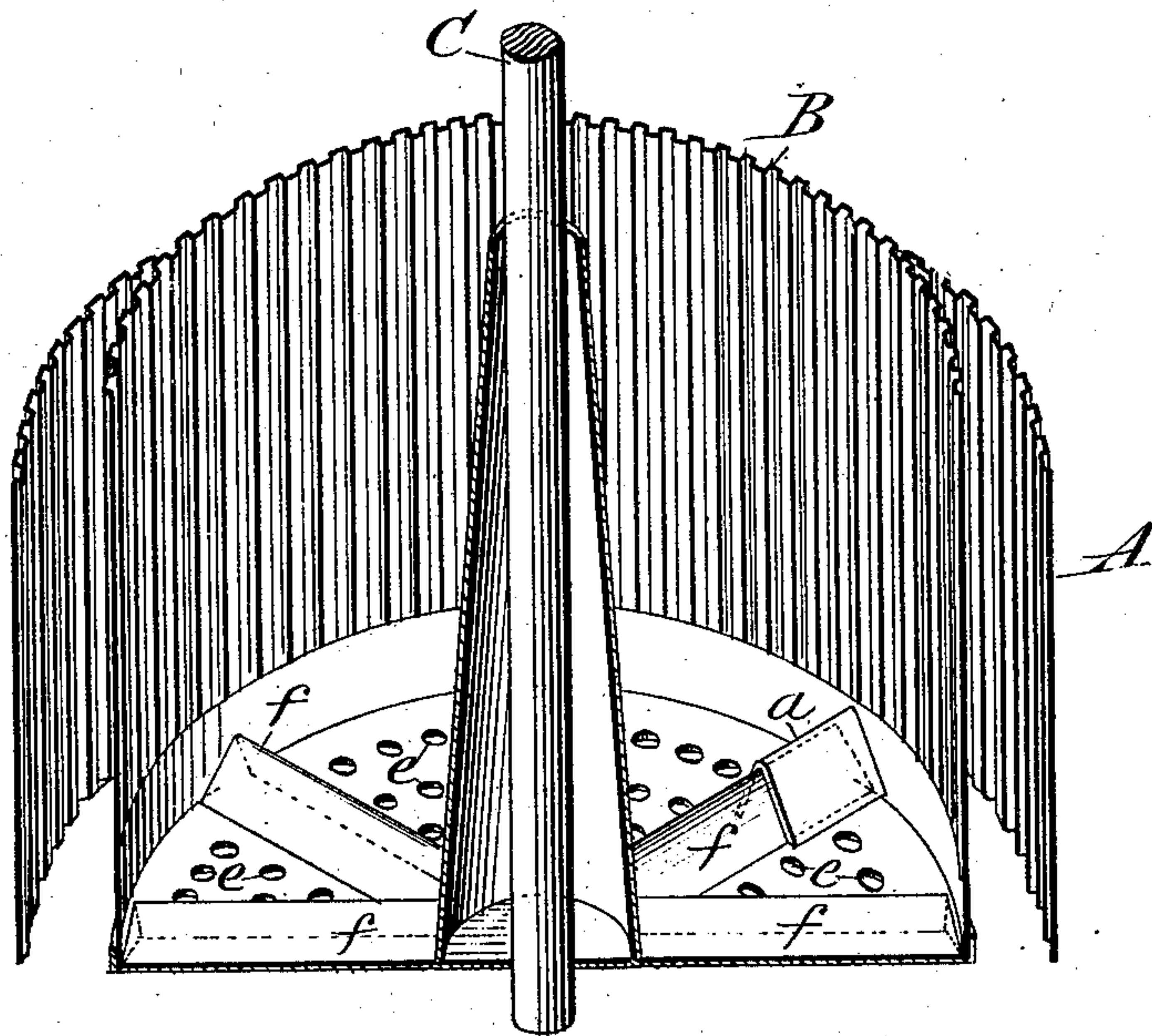
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Fig. 3.



Attest:
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UNITED STATES PATENT OFFICE.

VAN VAN DENBURGH, OF BACON HILL, NEW YORK.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 255,216, dated March 21, 1882.

Application filed October 19, 1881. (Model.)

To all whom it may concern:

Be it known that I, VAN VAN DENBURGH, a citizen of the United States, residing at Bacon Hill, in the county of Saratoga and State of New York, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to an improvement in washing-machines; and it consists in the combination and arrangement of parts substantially as hereinafter more fully set forth and claimed.

In the accompanying drawings, Figure 1 is a vertical section of my improved washing-machine, and Fig. 2 is a plan view with the outer cylinder and the handle and yoke of the shaft of the inner disk removed. Fig. 3 is a detailed view, partly in section and partly in perspective, of my invention.

A refers to the outer fluted or corrugated cylinder, in which the water for washing may be heated.

B is the inner cylinder, constructed without a bottom and of less diameter than, and placed within, the cylinder A, both cylinders standing in an upright position. The inner bottomless cylinder has affixed to it, at opposite points upon its inside at the lower end, inverted-V-shaped arms or sockets *a*, the function of which will be apparent presently.

B' is a disk arranged within and supported a suitable distance above the bottom of the outer cylinder, A, and of sufficiently greater diameter than the inner cylinder, B, to permit the latter to rest thereon; and it may have a flange around its outer edge to fit against the lower outer edge of the inner cylinder, as seen in Fig. 1.

C is a shaft secured centrally to the disk B', having its lower end extended below the disk, as at *c*, and fitted to turn in a socket, *d*, upon the bottom of the outer cylinder, A, to effect the supporting of the disk above the bottom of the latter cylinder, and extended upward and through a yoke, D, whose ends are bent downward and enter sockets, as at

D', upon the cylinder A, to permit of ready removal of the yoke. The upper end of the shaft has a handle, *c'*, for the operation of the machine.

As above intimated, the inner cylinder rests upon the disk B', the purpose of which will appear hereinafter. The space or chamber below the disk B', is to permit the passage of water thereunder. The disk B' has numerous apertures, *e*, to permit the boiling water to pulsate up through it into contact with the fabrics, to aid the cleansing operation.

ff are ribs or bars of an inverted-V-shaped form secured upon the upper surface of the disk B', after the manner of the arrangement of the spokes of a wheel, the shaft C forming the center or base of radiation. These ribs or bars permit of the supporting of the fabrics slightly above the apertures *e*, to allow the pulsating water to have full play upon the fabrics.

To prevent the independent rotation of the inner cylinder is the object of the V-shaped arms *a*, which fit upon any two of the ribs *f* when the cylinder is seated upon the disk B'. The inner cylinder being separate from the disk B', which serves as its bottom, as above intimated, is capable of ready and easy removal, by which, when the disk and cylinder, with the fabrics, are lifted out of the cylinder A after washing and removed to a tub, the cylinder can be removed and allow the fabrics to be all simultaneously emptied into the tub for rinsing. The cylinder B, having been lifted out of the tub, the disk B' is readily removed by pushing off with the hand the fabrics and elevating it out of the tub by pulling upward upon its shaft C. The yoke D and handle *c'* are also removable for this purpose.

It will be observed that by the pulsating action of the water, which is kept in a state of ebullition, and the reciprocation of the inner cylinder with the disk by forcibly turning the handle one way and then in a reverse direction, the operation of washing or cleansing the fabrics is performed.

I claim and desire to secure by Letters Patent of the United States—

In a washing-machine, the combination, with

the cylinder A, of the disk B', having the shaft C *c*, the perforations *e*, and the radial bars or ribs *f*, and the bottomless cylinder B, having affixed to the inside of its lower end inverted-
5 V-shaped arms or sockets *a*, fitted upon the ribs or bars *f* of the disk B', substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

VAN VAN DENBURGH.

Witnesses:

HARLOW LAWRENCE,
WILLIAM H. RYALLS.