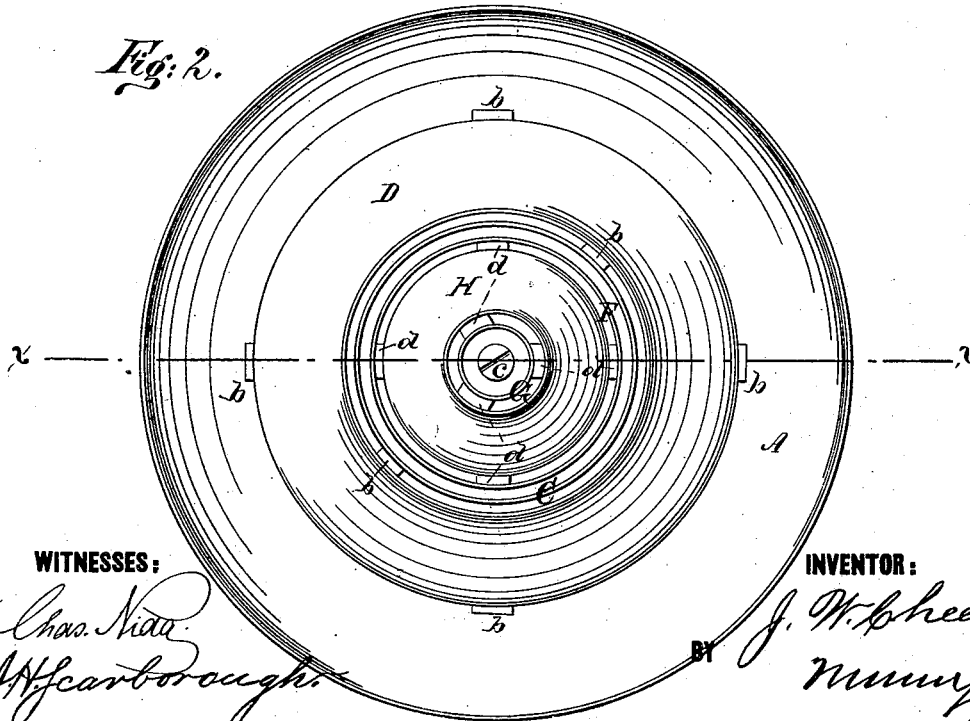
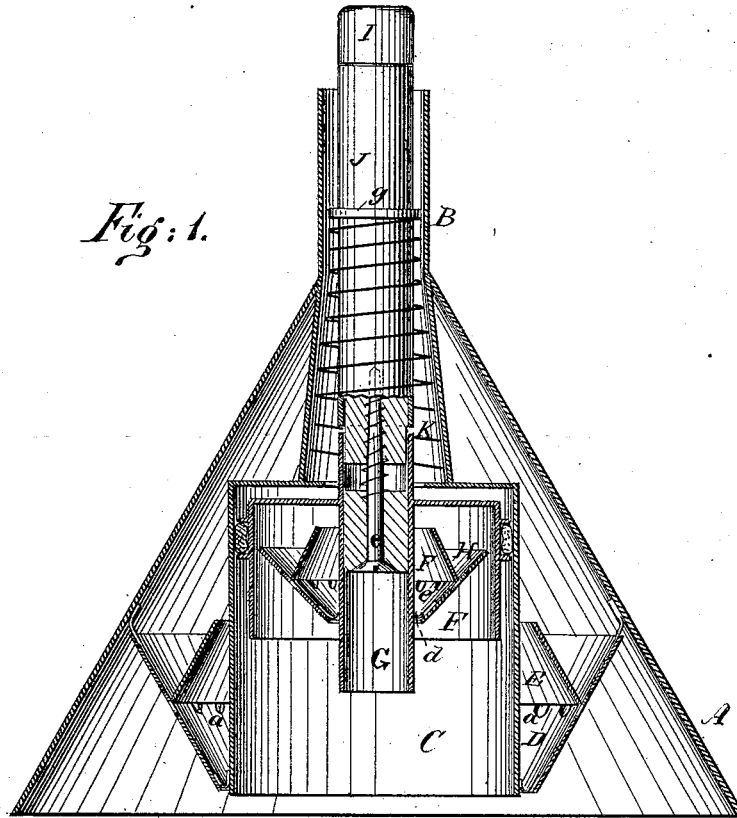


J. W. CHEEK.
CLOTHES-WASHER.

No. 191,028.

Patented May 22, 1877.



WITNESSES:
Chas. N. ...
J. H. Scarborough.

INVENTOR:
J. W. Cheek.
BY *Mumford*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES W. CHEEK, OF ASHEVILLE, NORTH CAROLINA.

IMPROVEMENT IN CLOTHES-WASHERS.

Specification forming part of Letters Patent No. **191,028**, dated May 22, 1877; application filed April 2, 1877.

To all whom it may concern :

Be it known that I, JAMES W. CHEEK, of Asheville, in the county of Buncombe and State of North Carolina, have invented a new and Improved Clothes-Washer, of which the following is a specification :

Figure 1 is a vertical section on line *xx* in Fig. 2. Fig. 2 is an inverted plan view.

Similar letters of reference indicate corresponding parts.

My invention consists in the combination of a cylinder and piston with a funnel-shaped plunger or pounder, the object being to provide a clothes-washer which shall cleanse the clothes by alternately forcing and drawing the water through the clothes.

Referring to the drawing, A is a funnel, in the apex of which is fixed a tube, B, which projects from the apex of the funnel a short distance. The portion of the tube B that projects into the funnel A is tapered, being largest at its lower end, and to it the cylinder C is attached, which extends downward nearly to the base of the funnel, and is braced by a flaring piece, D, which is perforated at *a*, and is attached to both the cylinder and the funnel by the stays *b*. To the part D, above the perforations *b*, an annular flaring piece, E, is attached, which is also attached to the cylinder C.

F is an inverted cup-shaped piston, which has upon its periphery two flanges, between which and around the piston packing material is placed, which makes an air-tight joint between the piston and cylinder. G is a short section of tube, that is secured centrally in the piston, and contains a plug of wood, through which the screw *c* extends upward to receive the handle of the washer.

A flaring piece, H, is secured to the tube G and also to the inner surface of the piston by

stays *d*, and is perforated at *e*, and is provided with a flange, *f*, that projects from its surface at right angles toward the tube G. I is the handle, which may be of any convenient length. J is a ferrule, placed on the lower end of the handle, and provided with a flange, *g*, between which and the top of the cylinder a tapered spiral spring, K, is placed. The handle I is attached by screwing it upon the screw *e*.

The operation of the machine is as follows: The clothes being placed in a suitable receptacle, and covered with water, the washer is forced down upon them in the same manner as the ordinary pounder. The funnel as it strikes the clothes drives the water through them, and the downward motion of the piston F forces the air out of the cylinder C.

When the washer is raised to make another stroke, the spring K draws the piston into the cylinder, producing a vacuum, which draws the water through the clothes. The alternate drawing and forcing the water through the clothes rapidly cleanses them.

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

1. The funnel A, containing the perforated flaring part D, and the part E, the cylinder C, and piston F, having the perforated flaring-piece H and flange *f*, in combination, substantially as herein shown and described.

2. The removable handle I, having the flanged ferrule J, the spring K, piston F, cylinder C, and funnel A, having the tube B, in combination, substantially as herein shown and described.

JAMES W. CHEEK.

Witnesses:

W. G. CORPENING,
T. F. CHEEK.