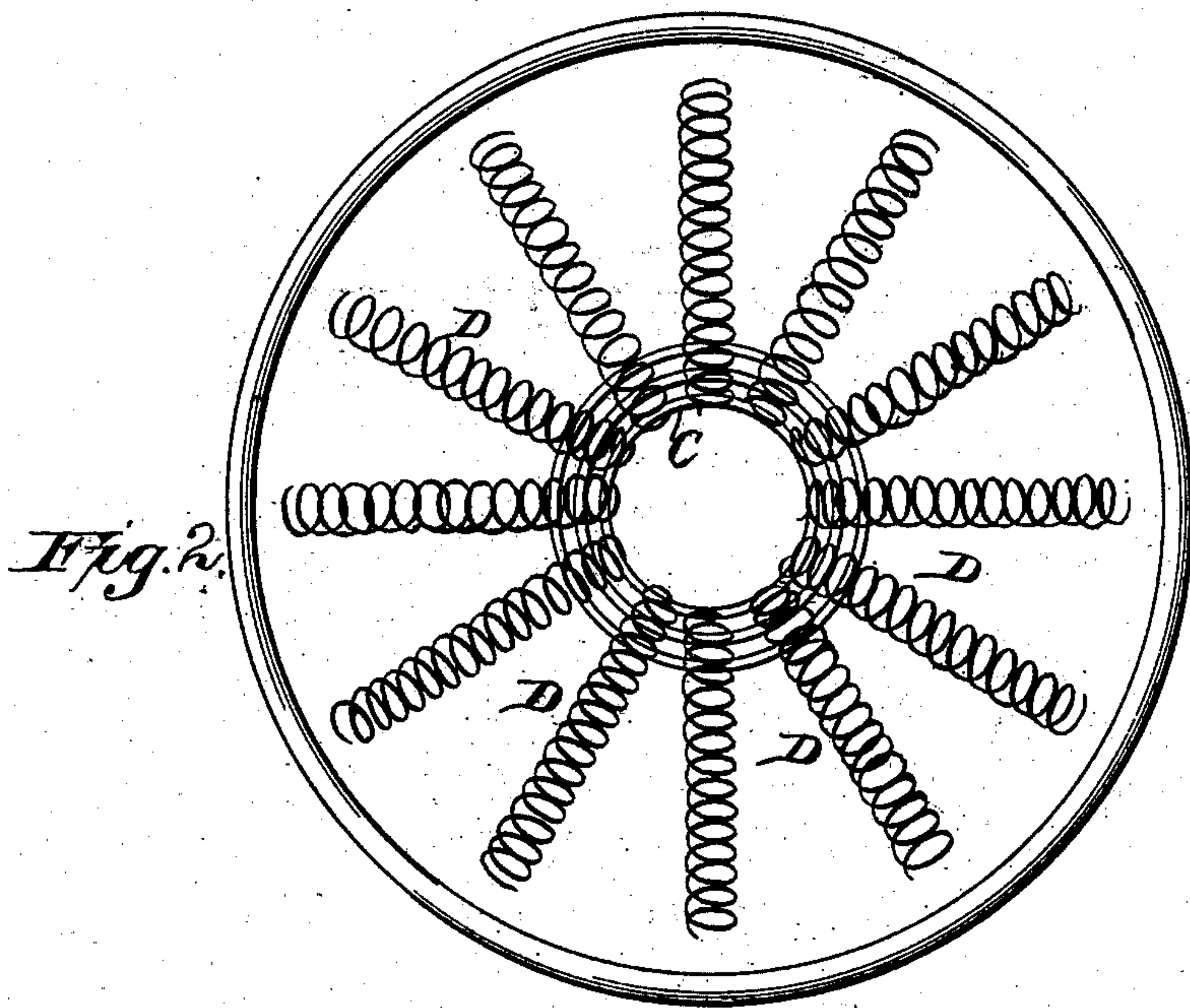
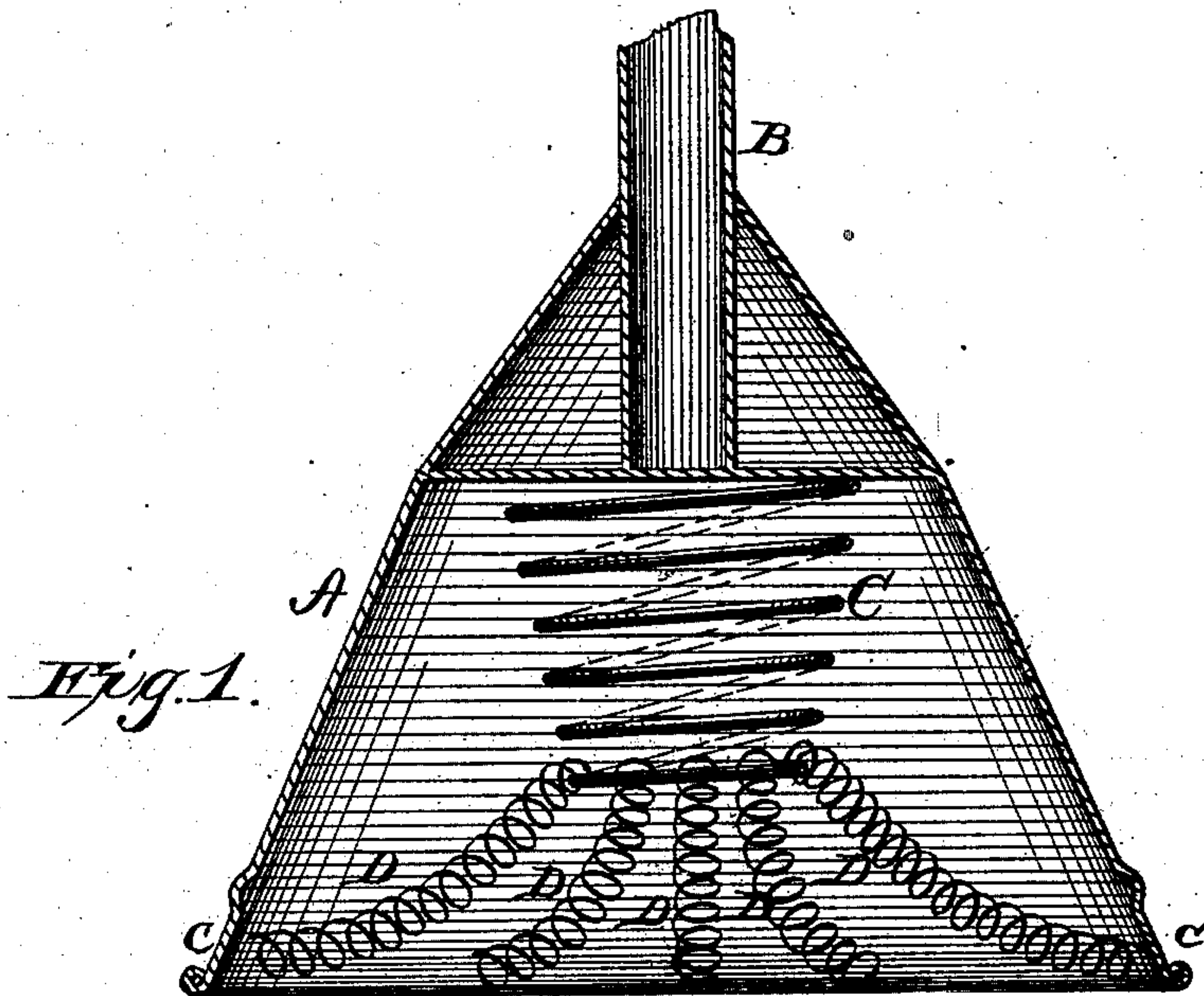


J. W. TULLIS.
Clothes-Pounder.

No. 224,747.

Patented Feb. 17, 1880.



WITNESSES

A. L. Curande
John J. Sommers

John W. Tullis INVENTOR
By H. J. Curtis
ATTORNEY

UNITED STATES PATENT OFFICE.

JOHN W. TULLIS, OF FAIRFIELD, ILLINOIS, ASSIGNOR OF ONE-HALF OF HIS
RIGHT TO JAMES A. NEVINS, OF SAME PLACE.

CLOTHES-POUNDER.

SPECIFICATION forming part of Letters Patent No. 224,747, dated February 17, 1880.

Application filed September 15, 1879.

To all whom it may concern:

Be it known that I, JOHN W. TULLIS, of Fairfield, in the county of Wayne and State of Illinois, have invented certain new and useful
5 Improvements in Clothes-Pounders; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in the class of atmospheric
15 clothes-washers, and more especially to the class of cone or cup shaped washers employing a spring for yielding upward when pressing down upon the clothes and preventing the clothes from rushing up too far in the cone or
20 cup when it is forced down upon the clothes; and the invention consists in the combination, with a cone or cup shaped dish, of a central supporting coiled spring and a series of small radiating coiled or spiral springs connected to
25 the central spring and to the lower or bottom part of the dish, said central spring holding each one of the small springs in its proper position and permitting them all to vibrate at the same time, all as will be hereinafter fully
30 described.

Referring to the drawings, Figure 1 represents a vertical section of my improved clothes-pounder, and Fig. 2 a bottom-plan view of the same.

35 In the drawings, A represents the usual sheet-metal cone or cup shaped dish employed in this class of washers, provided with the diaphragm A' near its top, as shown, and provided at its apex with a tube, B, for the reception of a handle. Centrally secured to the
40 diaphragm is a large coiled spring, C, extending downward to nearly the base of the cone or cup.

D represents a series of small spiral or coiled springs secured to the lower coil of the coiled
45 spring C, and radiating outward and secured to the bottom part of the cone or cup at c.

The effect and advantages of my improved construction of clothes-pounder are that, while the clothes are prevented from being forced
50 too far up in the cone or cup, the small spiral or coiled springs D rub the clothes lightly, thus softening and loosening the dirt both in their yielding or vibrating action, when the pounder is forced down upon the clothes,
55 and in their reaction or vibration, when the pounder is raised after being pressed down upon the clothes, the reaction of said springs also assisting in raising the pounder and relieving the lifting labor incident to this class
60 of clothes-washers.

I am aware that both a central coiled spring and a conical spiral spring have been used in connection with cone or cup shaped washers, and such I do not desire to claim, broadly, as
65 my invention; but,

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

The combination, with a cone or cup shaped
70 dish, A, of a central supporting coiled spring, C, and a series of small radiating spiral or coiled springs, D, connected to said central coiled spring and at or near the lower edge of the cone or cup shaped dish, substantially as
75 and for the purpose herein shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 26th day of August, 1879.

JOHN W. TULLIS.

Witnesses:

W. H. VANDEWATER,
M. R. BACON.