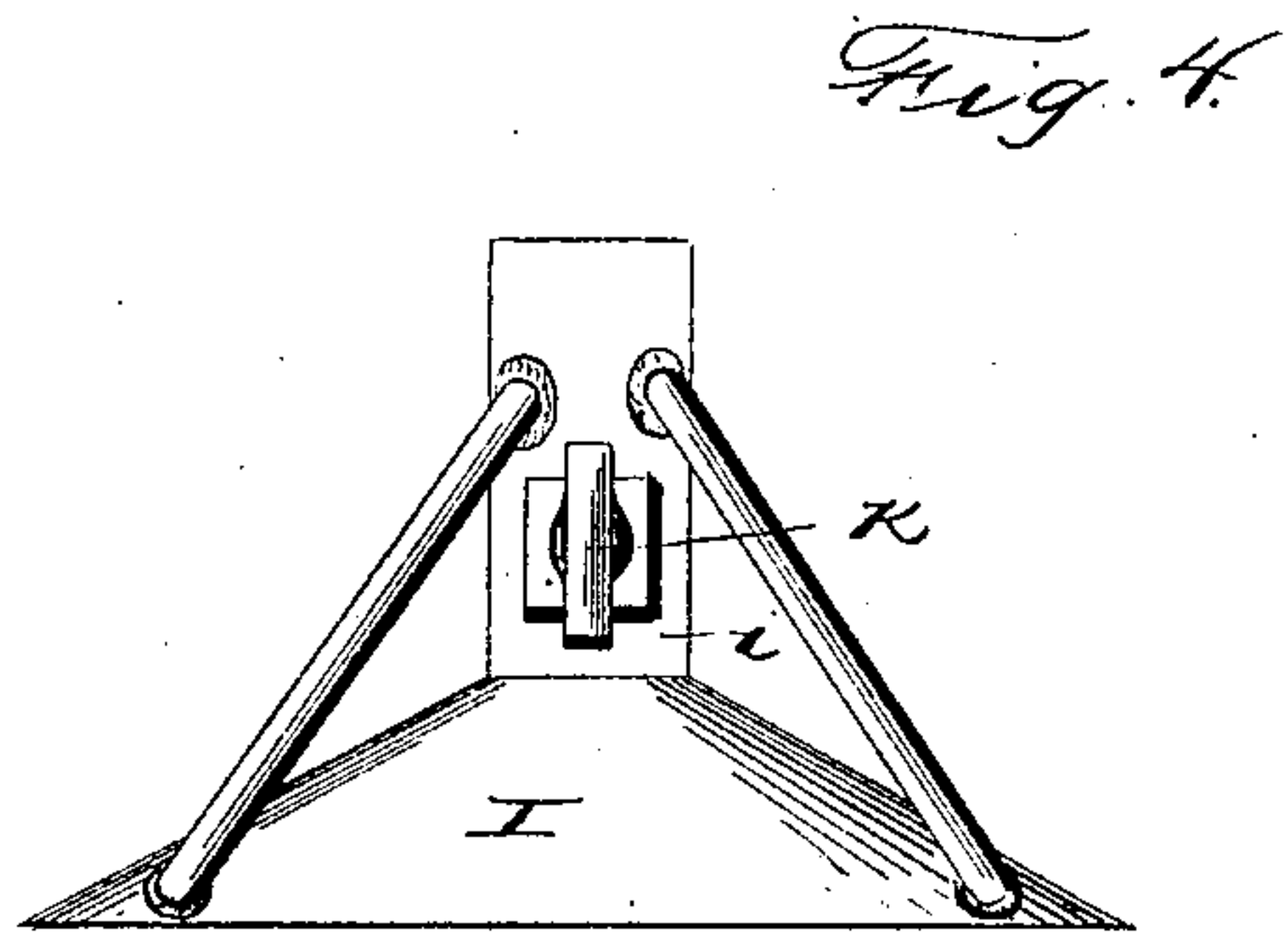
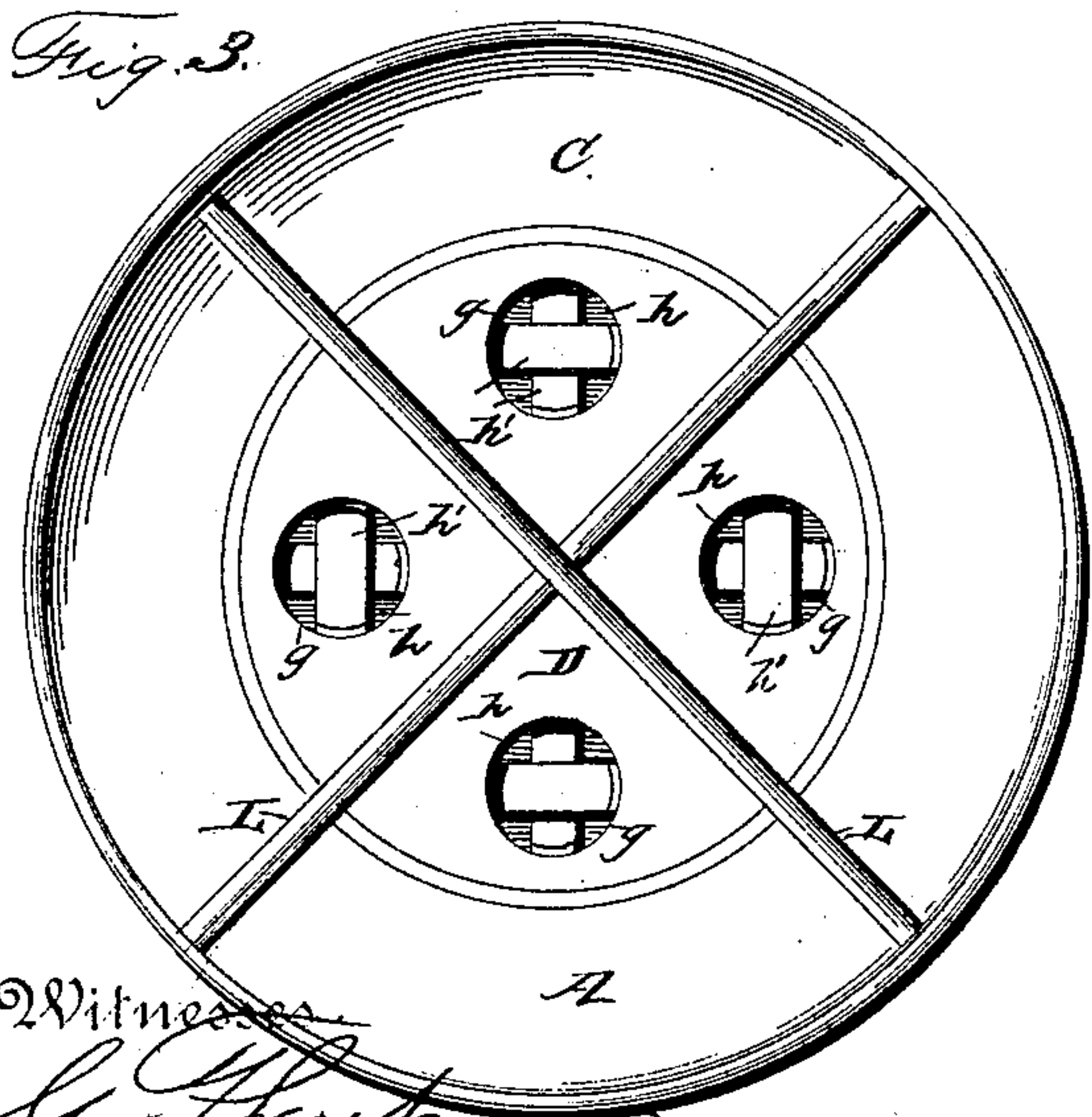
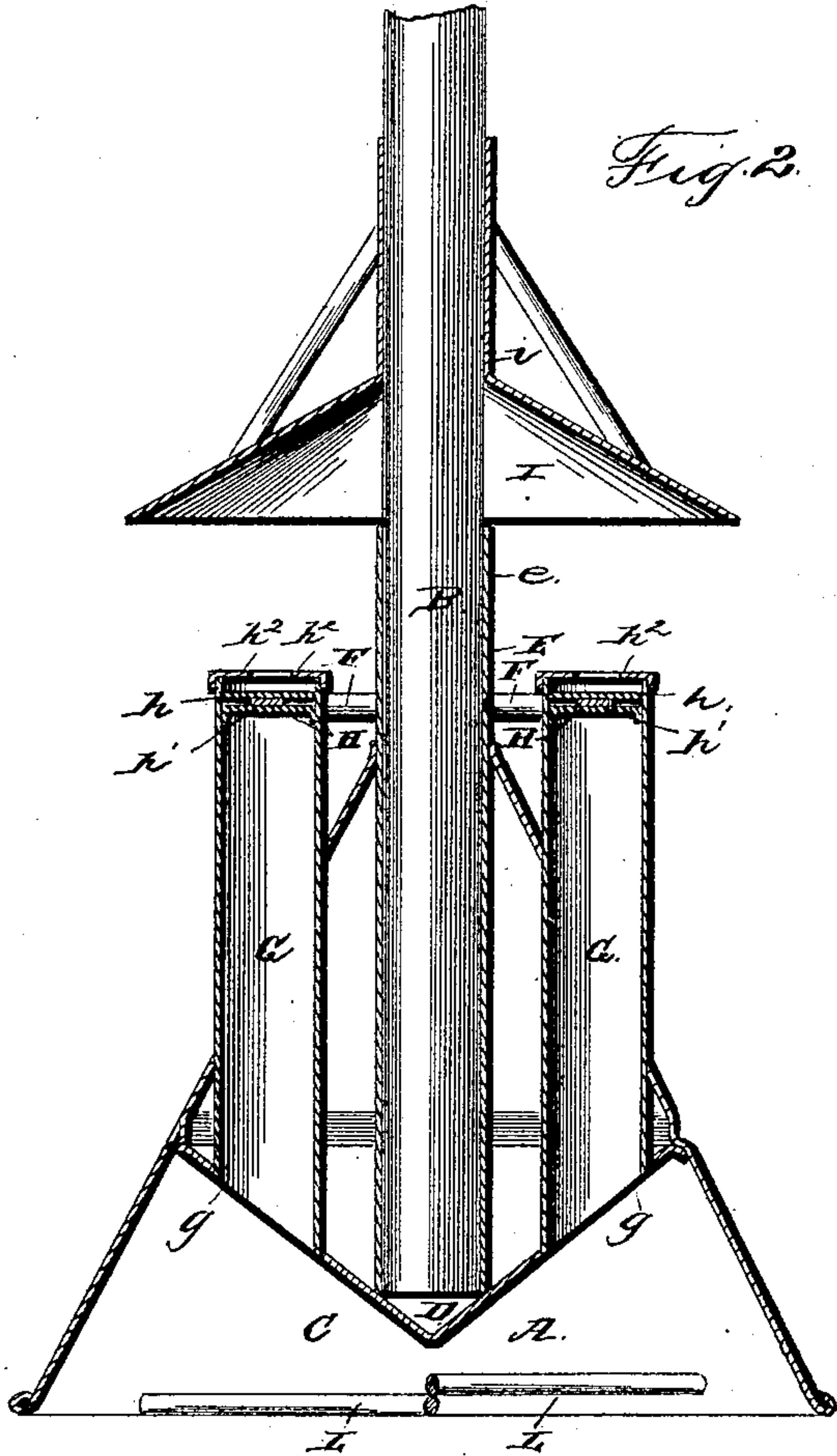
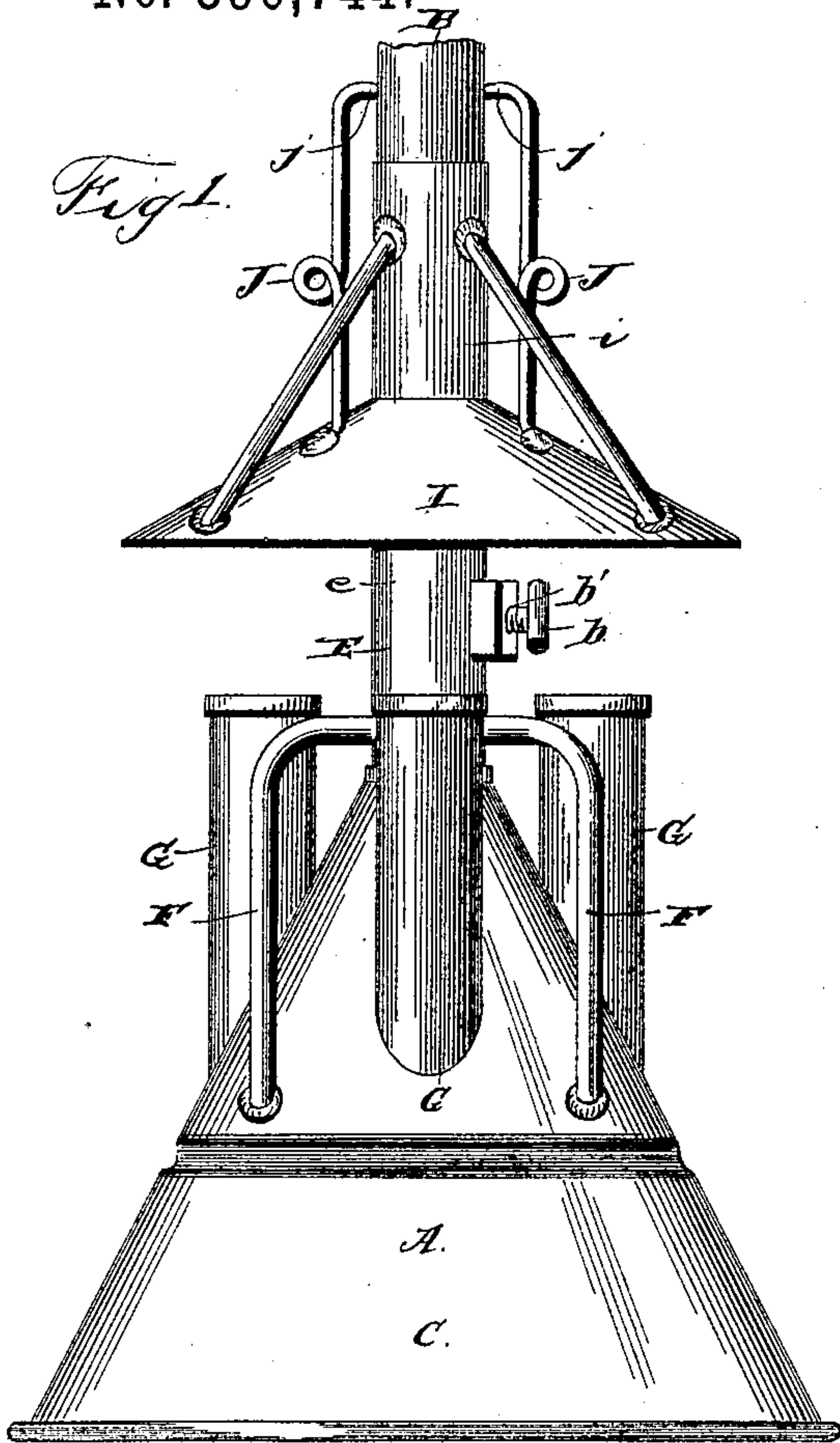


(No Model.)

W. BAYNES.  
CLOTHES POUNDER.

No. 390,744.

Patented Oct. 9, 1888.



Witnesses

*Geo. Hoyer*  
*R. J. Marshall, Jr.*

Inventor.

*W. Baynes*

By his Attorneys

*C. A. Snow & Co.*



# UNITED STATES PATENT OFFICE.

WILLIAM BAYNES, OF JASPER, MISSOURI.

## CLOTHES-POUNDER.

SPECIFICATION forming part of Letters Patent No. 390,744, dated October 9, 1888.

Application filed February 17, 1888. Serial No. 264,321. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM BAYNES, a citizen of the United States, residing at Jasper, in the county of Jasper and State of Missouri, have invented new and useful Improvements in Dashers for Churns and Washing-Machines, of which the following is a specification.

The invention relates to improvements in vertically-reciprocating dashers, such as are used in washing-machines and churns; and it consists in the construction and novel combination of parts hereinafter described, illustrated in the accompanying drawings, and pointed out in the claim.

In the drawings, Figure 1 is a side view of a dasher embodying the invention. Fig. 2 is a central vertical section of the same. Fig. 3 is a reversed plan of the dasher. Fig. 4 is a side view of a modification of the deflector-plate.

Referring to the drawings by letter, A designates the dasher, and B the handle thereof. The dasher A consists of the hollow cone C, made, preferably, of sheet metal and having the reversed conical partition or septum D secured therewithin by its rim, at about one-third of the height of said cone above the base thereof, and the central vertical sleeve-socket, E, closed at its lower end, which adjoins the apex of the septum D, and extending a sufficient distance at *e* above the apex of the cone C. The lower end of the handle or dasher-staff B fits snugly in said sleeve-socket, and is rendered vertically adjustable therein by means of the set screw *b*, that passes through a tapped opening, *b'*, in a boss on the extension *e*, and impinges on the handle within.

F F are brace-rods, preferably four in number and equidistant, that connect the extension *e* and the exterior of the cone C, so as to stay and stiffen the latter.

G G are four vertical equidistant tubes that rise from the septum D, midway between the brace-rods F, and pass through the cone C, and rise to a suitable height thereabove, which is at a height of about the points of junction of the brace-rods with the extension *e*. The said tubes open through the septum, through the orifices *g*, and at their upper ends have the upwardly-closing valves H, each of

which consists of a circular valve-plate, *h*, resting on a seat composed of the crossed bars *h'*, and closing against the perforated cap *h''* at the upper end of the tube G.

I is a conical deflector-plate having the central vertical sleeve, *i*, that fits upon the handle B, above the dasher proper; and J J are opposite upstanding spring-catches that are secured to the said deflector and have their inwardly-bent free upper ends, *j*, arranged to impinge against the handle at any point, so that the deflector is rendered vertically adjustable on the handle by said springs.

Fig. 4 shows a set-screw, K, used as a substitute for the springs to adjust the deflector vertically on the handle.

L L are guard-rods crossed at right angles within the cone C, below the septum D, and extending between the orifices *g*.

The operation of the dasher is as follows: When moved downward, the guard-rods L prevent the clothes from rising within the cone and stopping the orifices *g* of the tubes G, and the valves H are closed, so that the air in the cone is forced through the clothes as the dasher descends, and the water is agitated and moved downward in the web, thereby rushing back through the web as the dasher ascends. When the dasher ascends, the valves H open, relieving the cone from the downward air-pressure that otherwise would resist the lifting of the dasher. The dasher thus, when descending, compresses the air and drives the same through the clothing, and when ascending the valves open to relieve the air-pressure. The adjustable deflector-plate throws the water laterally when the dasher descends and prevents it from splashing out of the receptacle or suds-box.

The spring-catches J and set-screws K may both be used, as they will mutually aid each other, and the one would act if the other were broken or misplaced.

Having described my invention, I claim—

The combination, with a dasher provided with a vertical socket, E, of the vertically-adjustable handle B, stepped in the socket E, and held at the desired adjustment by the set-screw *b*, the vertically-adjustable deflector I,

provided with the sleeve *i*, sliding on the handle B, and the spring-catches J J, attached at their lower ends to the deflector, and provided at their upper ends with the intumed  
5 points *j j*, which bite on the handle B and lock the deflector in place, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM BAYNES.

Witnesses:

J. H. CANNON,  
J. T. WALLAR.