

(No Model.)

S. GROGG.
WASHING MACHINE.

No. 464,069.

Patented Dec. 1, 1891.

FIG. 1.

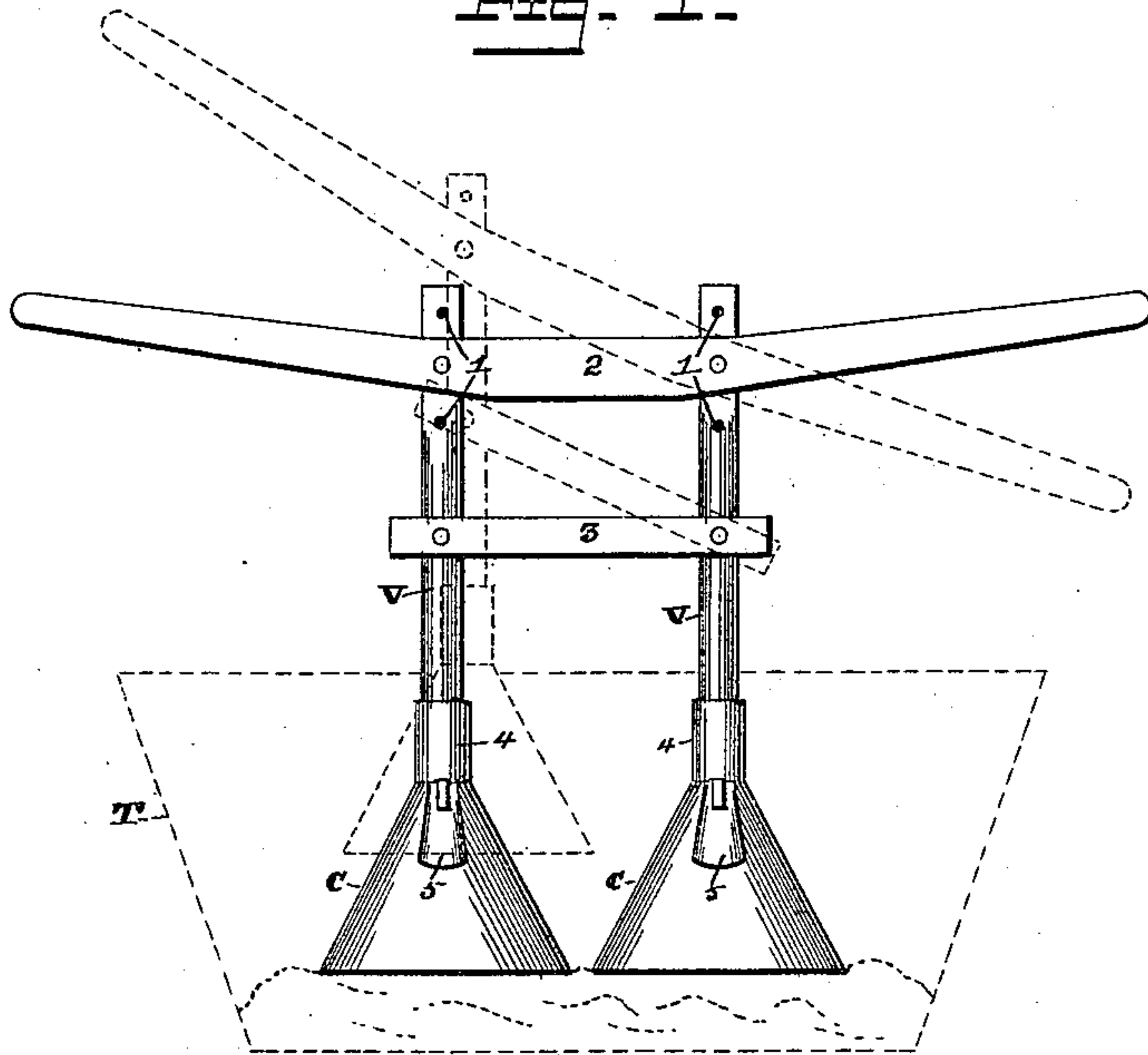


FIG. 2.

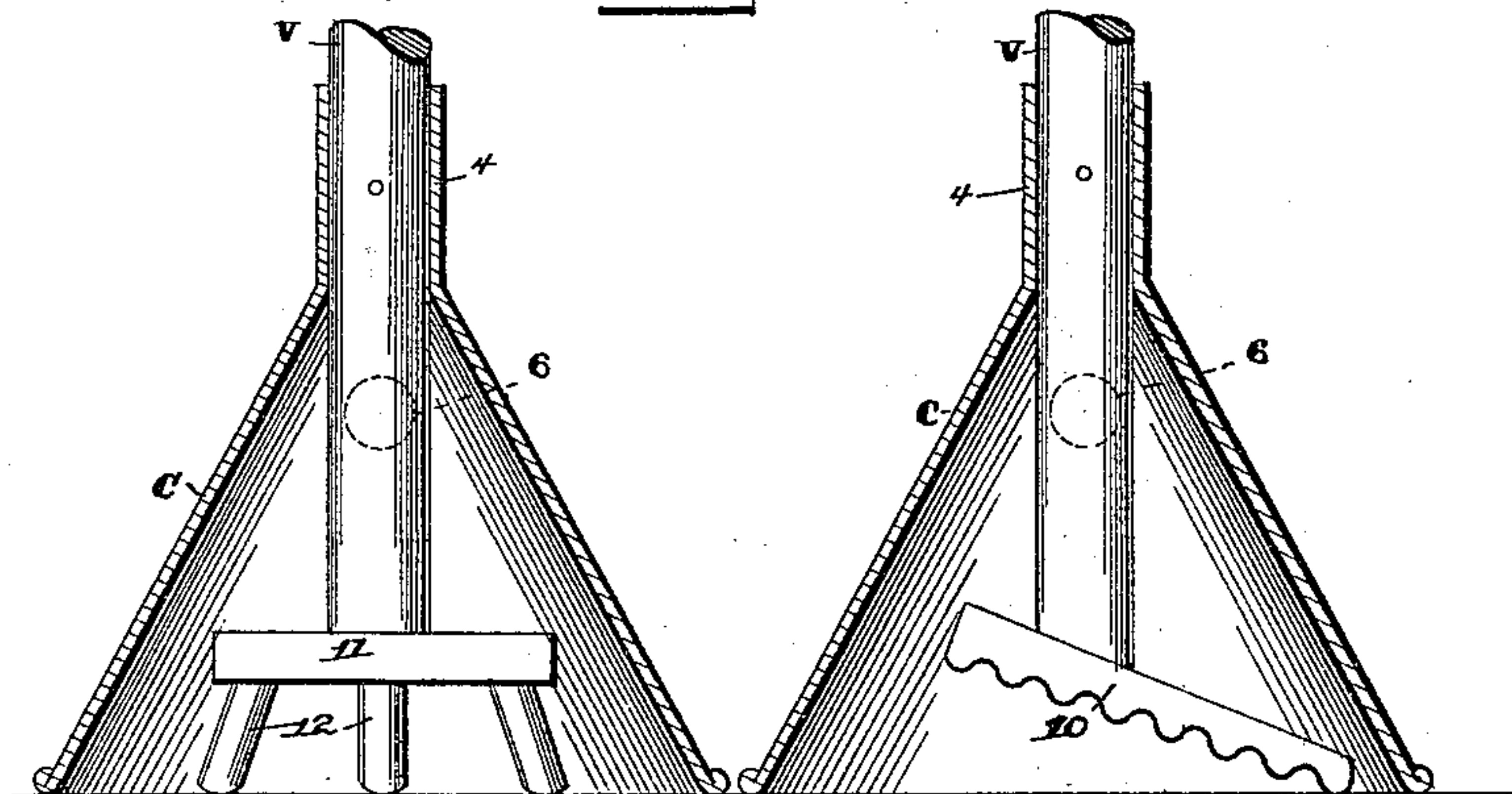
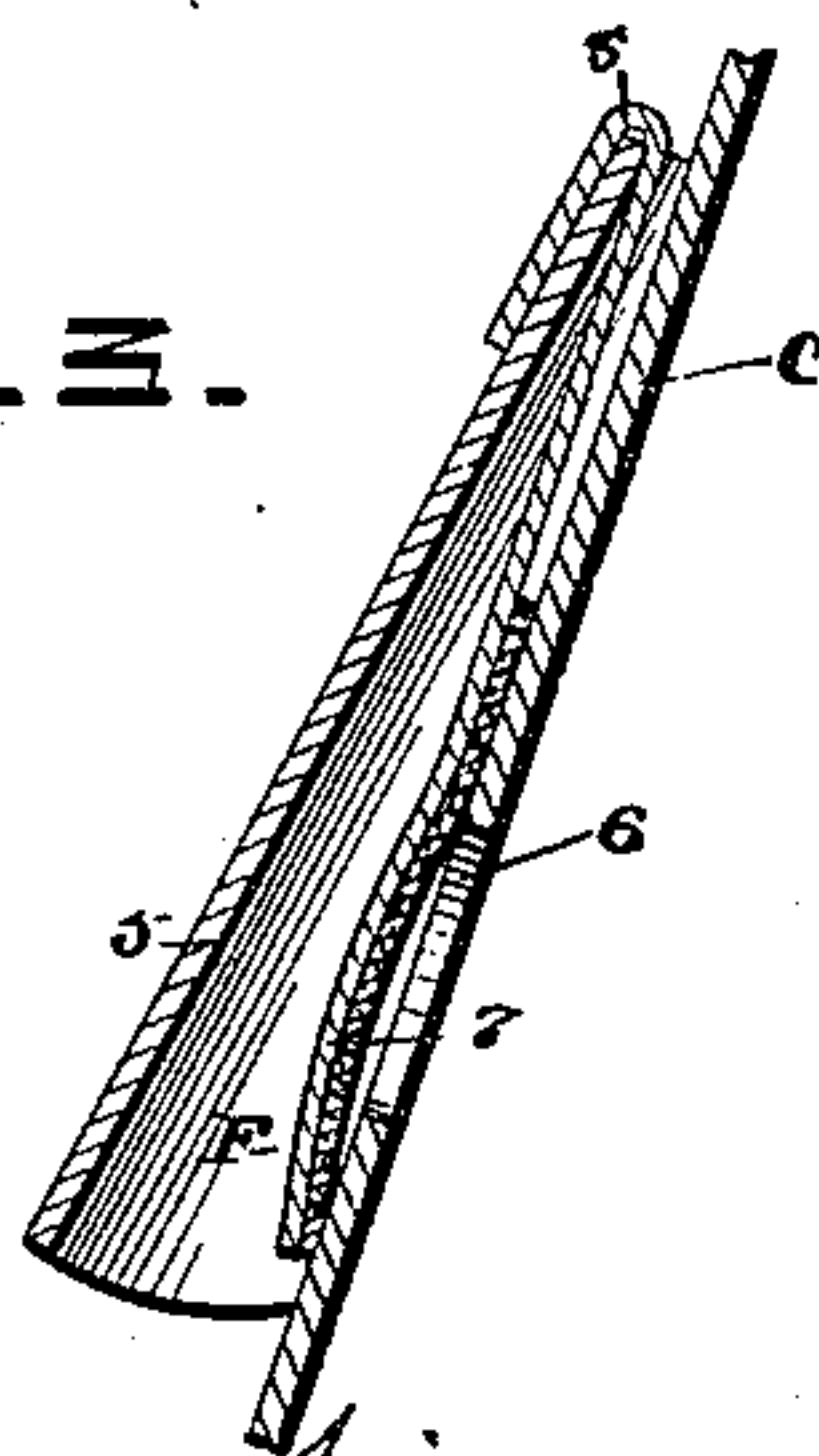


FIG. 3.



Witnesses

E. S. Duwall Jr.

N. J. Hollamer,

By his Attorneys,

Inventor

Sylvester Grogg.

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

SYLVESTER GROGG, OF ST. JOSEPH, MISSOURI.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 464,069, dated December 1, 1891.

Application filed May 29, 1891. Serial No. 394,525. (No model.)

To all whom it may concern:

Be it known that I, SYLVESTER GROGG, a citizen of the United States, residing at St. Joseph, in the county of Buchanan and State of Missouri, have invented a new and useful Washing-Machine, of which the following is a specification.

This invention relates to washing-machines, and more especially of that class known as "pounder," and the object of the same is to produce certain improvements in devices of this character.

To this end the invention consists in the specific details of construction hereinafter more fully described and claimed, and as illustrated on the sheet of drawings, wherein—

Figure 1 is a general elevation of this device, showing it in use in connection with a tub, the latter being in dotted lines. Fig. 2 is a central vertical section of the two heads. Fig. 3 is an enlarged vertical section of one of the flap-valves.

Referring to the said drawings, the letter T designates an ordinary tub, within which my improved washing-machine is adapted to work. This machine comprises two vertical rods V, to the lower end of each of which is secured a conical head C, having in its sides flap-valves F, all as is usual in devices of this character, but the parts being of the following improved specific construction: The rods V are provided with a number of holes 1, to a pair of which is pivotally connected a long handle 2, and below this handle a pair of braces 3 also pivotally connects the rods V. By this means the rods are caused to stand at all times in parallelism and to operate as hereinafter described. Each head C has an elongated shank 4 at its upper end, which embraces the body of its rod V, and is bolted or secured thereto in any suitable manner. On the sides of each head, at preferably diametrically-opposite points, are hoods 5, Fig. 3, beneath which the side of the head is perforated, and a flap-valve 7 is located within this hood over the opening 6, its upper end passing out the upper end of the hood and being hooked over, as at 8. The vertical rods V extend downwardly into the heads C, and secured to the lower end of one rod is an inclined face 10, having transverse corruga-

tions, while secured to the lower end of the other rod is a flat face 11, having depending therefrom a number of rounded pegs 12.

In operation, the clothes having been placed in the tub T along with the suds, this improved washing device is brought into position and the two heads C inserted in the tub upon the clothes. The ends of the handle 2 are then alternately elevated and depressed, one head and its rod V acting as a fulcrum while the other head is raised and brought down upon the clothes. During this operation the valves close as the heads rise and thereby draw part of the suds above the water-level, and when the heads are brought down the valves open and the water flows out, as will be clearly understood; or the handle 2 may be reciprocated longitudinally, whereby the heads will be caused to rock from side to side simultaneously, resting first upon one edge and then upon the other. The specific shapes of the two faces are advantageous, in that the inclined face with its transverse corrugations presses with different force upon various parts of the clothes, while the pegged face in the other head presses at different points with an equal pressure on the clothes.

I do not confine myself to the exact details of construction, as considerable change may be made therein without departing from the spirit of my invention, and the materials of which the parts are composed and their relative sizes and shapes are matters which will develop in the manufacture and use of the device.

What is claimed as new is—

1. In a washing-machine, the combination, with a vertical rod, means for reciprocating it, and a conical head secured to its body and surrounding its lower end, of an inclined pounder-face secured to the lower end of the rod within the head and having transverse corrugations, substantially as described.

2. In a washing-machine, the combination, with two vertical rods, a handle pivotally connecting them at their upper ends, braces pivotally connecting them below said handle, and conical heads secured upon their bodies and surrounding their lower ends, of an inclined pounder-face within one head having transverse corrugations, and a flat face within the

other head having depending rounded pegs, said faces being mounted on the lower ends of the rods, substantially as described.

3. In a washing-machine, the combination,
5 with a vertical rod, means for reciprocating it longitudinally, and a conical head having at its upper end a shank mounted on the rod and having perforations in its sides, of a pounder-face secured to the lower end of the
10 rod within said head, a hood over each of said perforations, and a flap-valve within the hood,

its stem extending out the upper end thereof and being hooked outwardly, substantially as hereinbefore described.

In testimony that I claim the foregoing as 15
my own I have hereto affixed my signature in presence of two witnesses.

SYLVESTER GROGG.

Witnesses:

CHARLES F. LANGTIM,
B. E. SYLVESTER.