

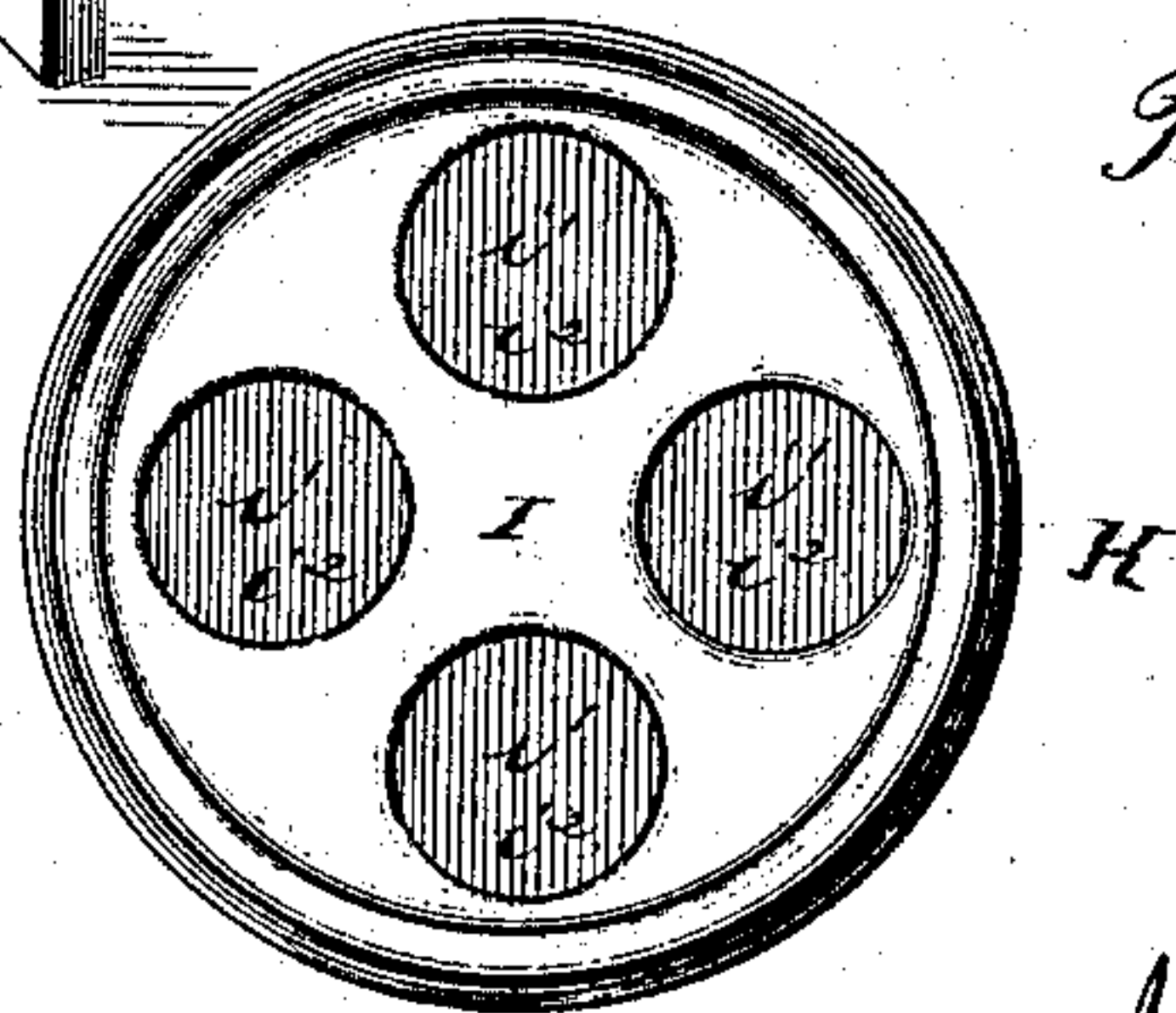
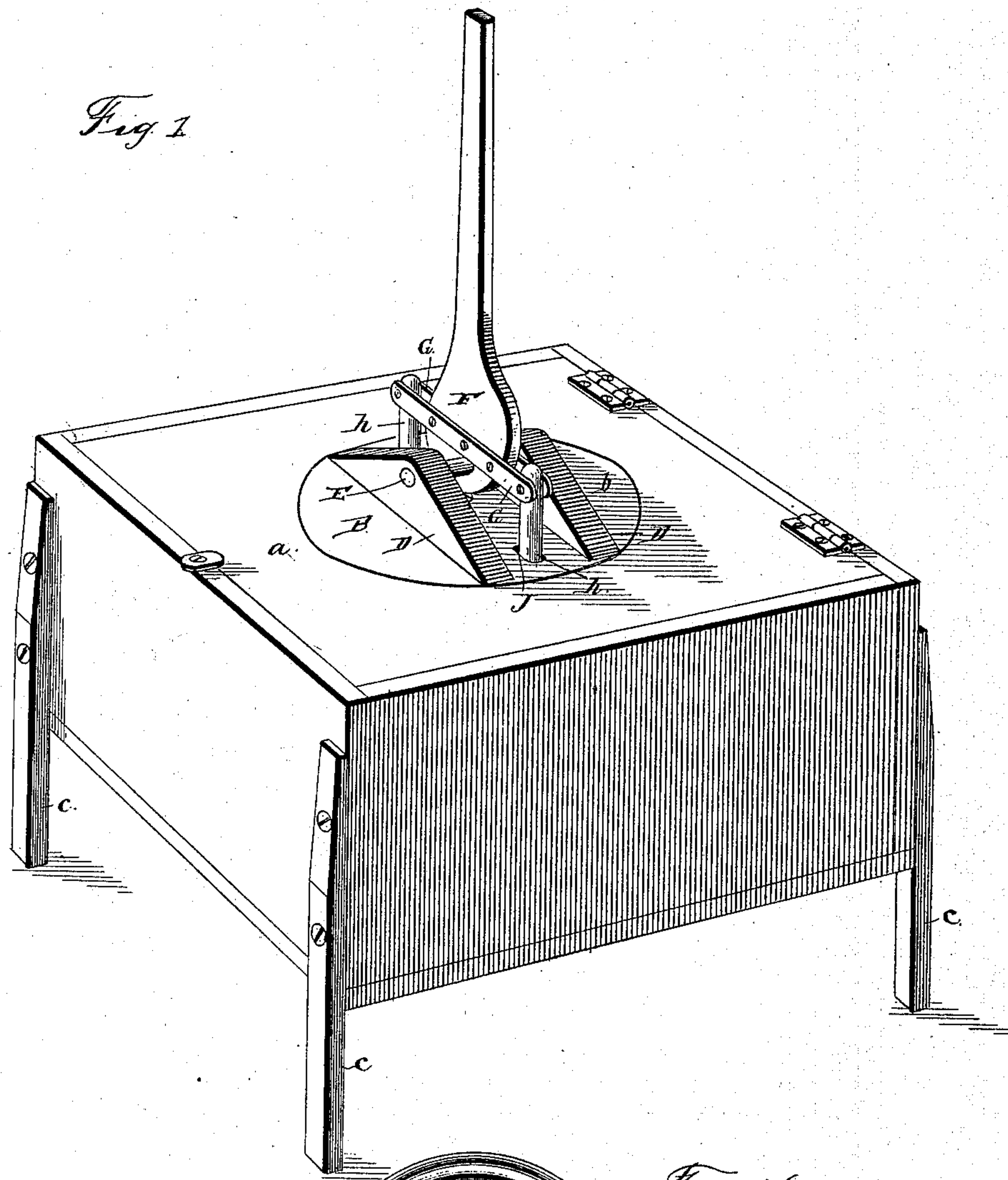
(No Model.)

2 Sheets—Sheet 1.

J. SHEPHERD.
WASHING MACHINE.

No. 388,728.

Patented Aug. 28, 1888.



Witnesses,
Geo. P. Hooper
J. H. Diggers

Inventor,
Josiah Shepherd
By his Attorneys
C. A. Howden

(No Model.)

2 Sheets—Sheet 2.

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Fig. 2.

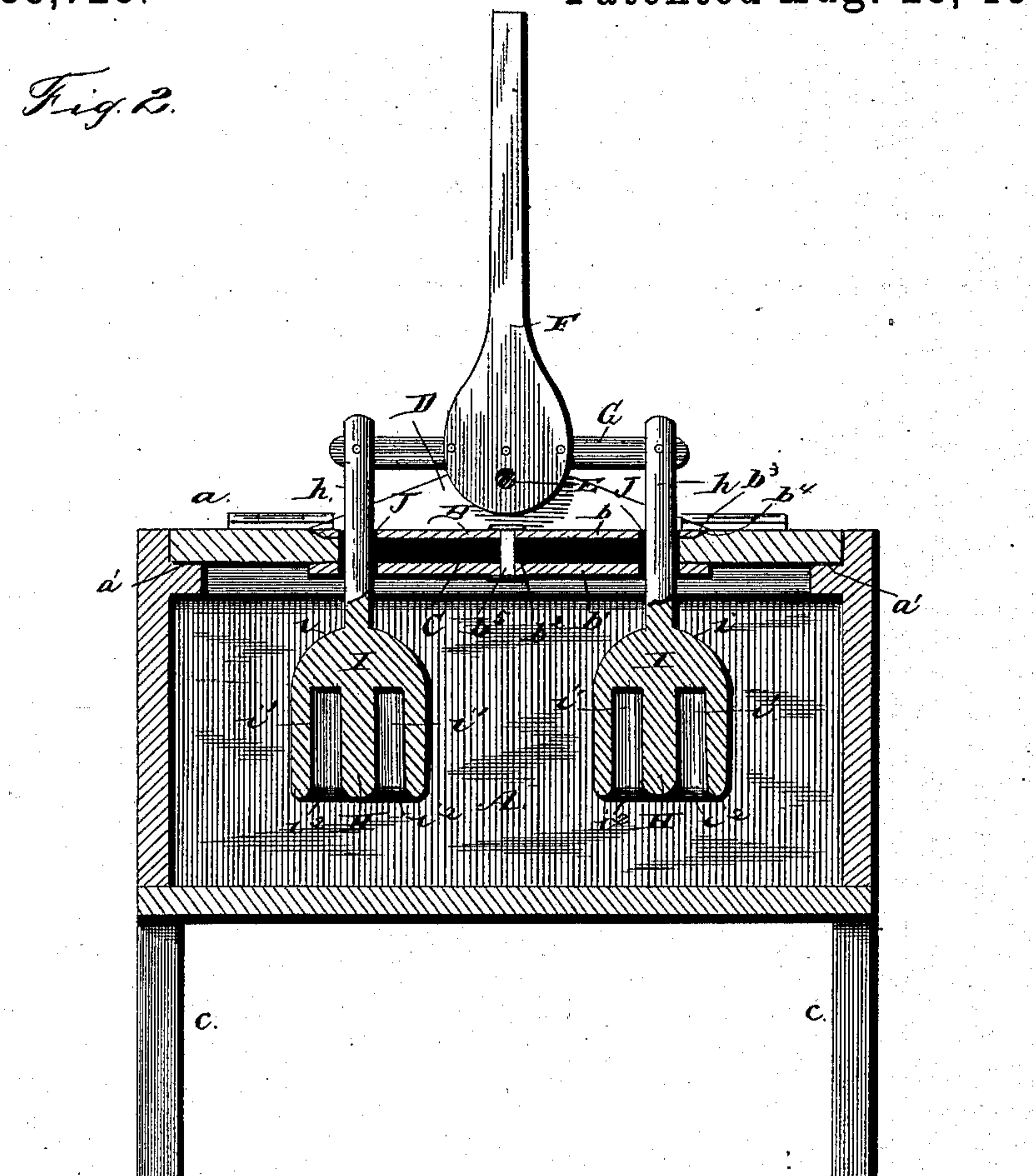
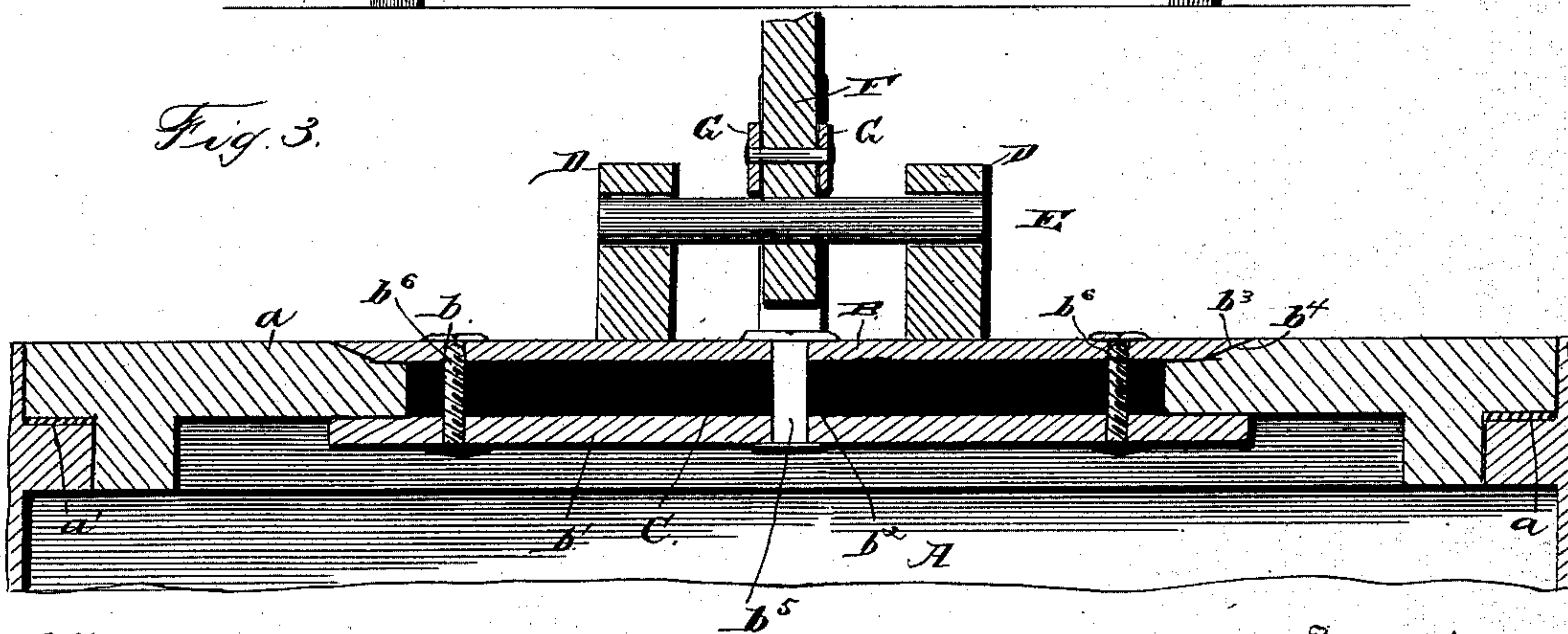


Fig. 3.



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By *his* Attorneys:

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UNITED STATES PATENT OFFICE.

JOSIAH SHEPHERD, OF JEFFERSONVILLE, OHIO.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 388,728, dated August 28, 1888.

Application filed January 25, 1888. Serial No. 261,824. (No model.)

To all whom it may concern:

Be it known that I, JOSIAH SHEPHERD, a citizen of the United States, residing at Jeffersonville, in the county of Fayette and State of Ohio, have invented a new and useful Improvement in Washing-Machines, of which the following is a specification.

The invention relates to washing-machines, the object being to economize force and to bring no metallic substance in contact with the clothes, so as to render them liable to be corroded thereby; and it consists in the construction and novel combination of parts, hereinafter described, illustrated in the accompanying drawings, and pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a washing-machine embodying my invention. Fig. 2 is a central vertical section thereof. Fig. 3 is a detail central sectional view at right angles to Fig. 2. Fig. 4 is a detail view of the face of one of the plungers.

Referring to the drawings by letter, A designates the suds-box, preferably of rectangular form, having the hinged door *a* in its top, with the edges at its mouth rabbeted, as at *a'*, and the edges of the door correspondingly rabbeted, and also packed, so as to make a steam-tight joint when closed.

B is a turn-table, composed of the outer circular plate, *b*, having the beveled edge *b*³, which rests in a correspondingly-beveled recess, *b*⁴, around the central circular opening in the door *a*, and the inner circular plate, *b'*, connected to the outer plate by the central pin, *b*⁵, and side bolts, *b*⁶.

The suds box is supported on the legs *c c*, so as to stand clear of the floor, and has no nails, screws, or other metallic parts in its composition to come in contact with the clothes. The turn-table turns freely with an easy motion on its seat.

D D are parallel similar bearing-lugs, standing from the outer plate of the turn-table, and having the oscillating shaft E journaled centrally thereon.

F is a lever mounted on the said shaft between the bearing-lugs, and having its free or upper end formed into a handle, by means of which to operate the machine.

G G are transverse bars secured to the lever F a suitable distance outward from or above the shaft E, and having their ends pivoted to the plunger-rods *h*, upon the lower ends of which are fixed the cup-shaped plungers H, which are preferably diametrically opposite each other. Each of said plungers consists of a block, I, having a spherical top, *i*, and the vertical recesses *i'*, preferably arranged opposite each other. The said vertical recesses have their mouths or orifices *i''* rounded on the edges, so that when they beat down on the water in the suds-box the water that does not enter is spread laterally, thereby throwing the hot water and suds over the clothes. The plunger-rods *h* reciprocate in guide-openings J J in the turn-table, which openings are made of sufficient diameter to accommodate the motion of the plunger-rods as they move up and down.

By the use of the turn-table the person operating the machine can vary the direction of the stroke at will, and could, in fact, walk around the suds-box, if desirable or necessary, while using the lever-handle F. The particular advantage of this arrangement, however, is to allow the working parts to be easily turned, so that the plungers can be brought in contact with the clothes all around the tub without stopping the action of the machine or lifting the lid. This is one of the essential features of the invention. By the simple mechanical arrangement of the operating means for the plungers all the power is brought to bear directly on the clothes without any waste of power. Furthermore, all the heat and steam are confined in the tub while the work is being done, thus making the results more satisfactory and with less annoyance to the operator than when an open tub is used.

The machine, as described, is cheap, effective, and not easily put out of repair, and no metal is intended to be used in its construction to come in contact with the clothes.

Having described my invention, I claim—

1. The combination, with the suds-box, of the lid, the rotatable circular turn-table mounted in the lid and forming in connection with the same a complete cover for the suds-box, the lever mounted on the turn-table, and

the plunger connected to the lever and extending through the turn-table into the suds-box, as specified.

2. The combination, with the suds-box and the cover making a steam-tight joint therewith, of the turn-table attached to the cover, the shaft journaled thereupon, the lugs rising from said turn-table, the lever-handle pivoted on said shaft, the transverse bars secured to said lever above its pivotal point, the plunger-rods, and the plungers, substantially as specified.

3. The combination, with the suds-box and the lid, of the turn-table comprising the upper plate, *b*, and the lower plate, *b'*, secured together by bolts, the lever mounted on the turn-table, and the plungers connected to the lever, as set forth.

4. In a washing-machine, a suds-box having the door *a*, provided with a circular opening having the beveled recess *b¹*, the turn-table B, comprising the outer plate, *b*, having the beveled edge *b²* to rest in the recess *b¹*, and the inner plate, *b'*, connected to the outer plate by pins and bolts and engaging under the lid or cover *a* around the opening therein, and the plunger and operating-connections mounted on the turn-table, as set forth.

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

JOSIAH SHEPHERD.

Witnesses:

WM. MCKILLIP,
S. S. MOON.