

L. COOLEY.
WASHING-MACHINE.

No. 177,472.

Patented May 16, 1876.

Fig. 1.

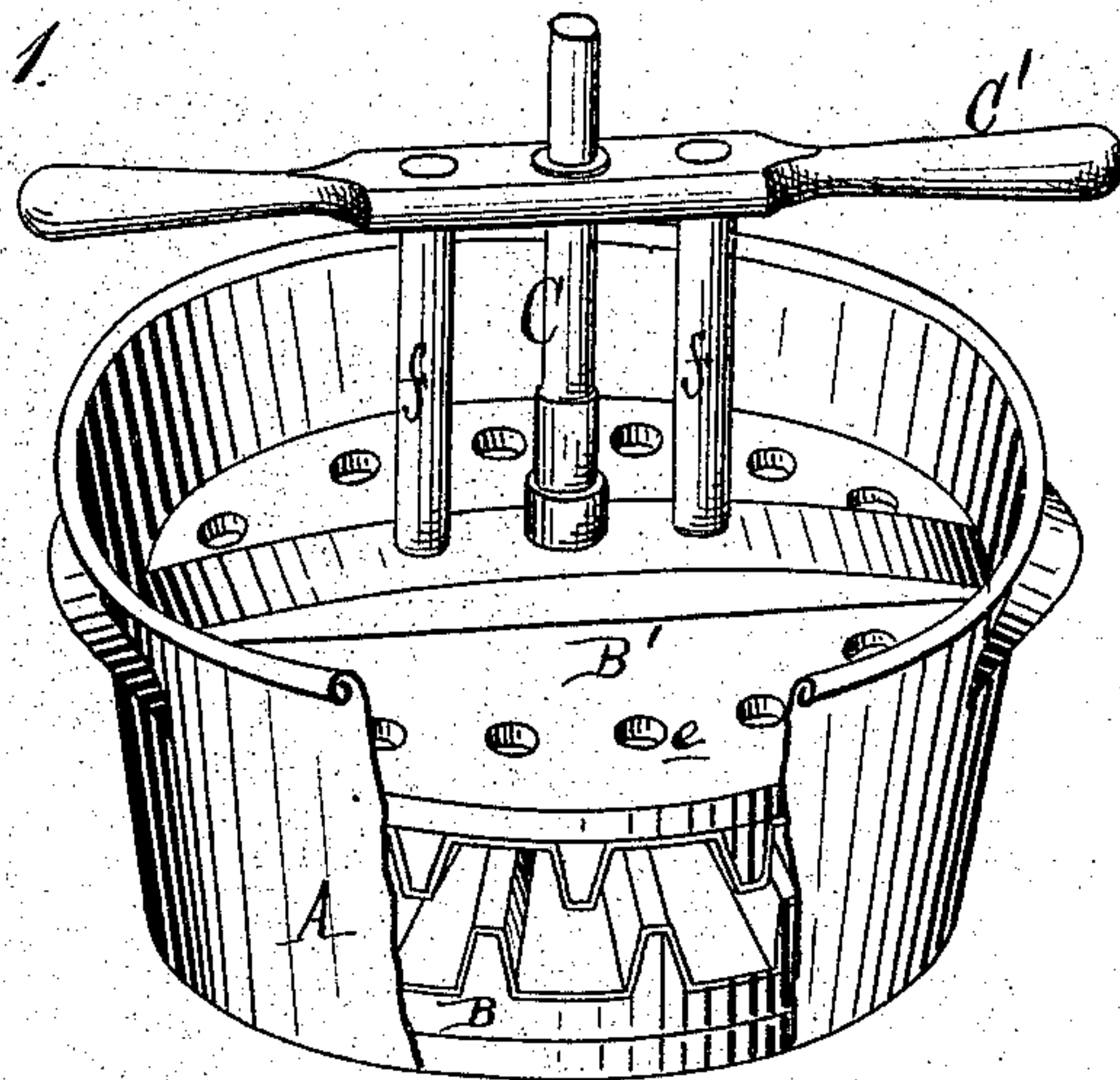


Fig. 2.

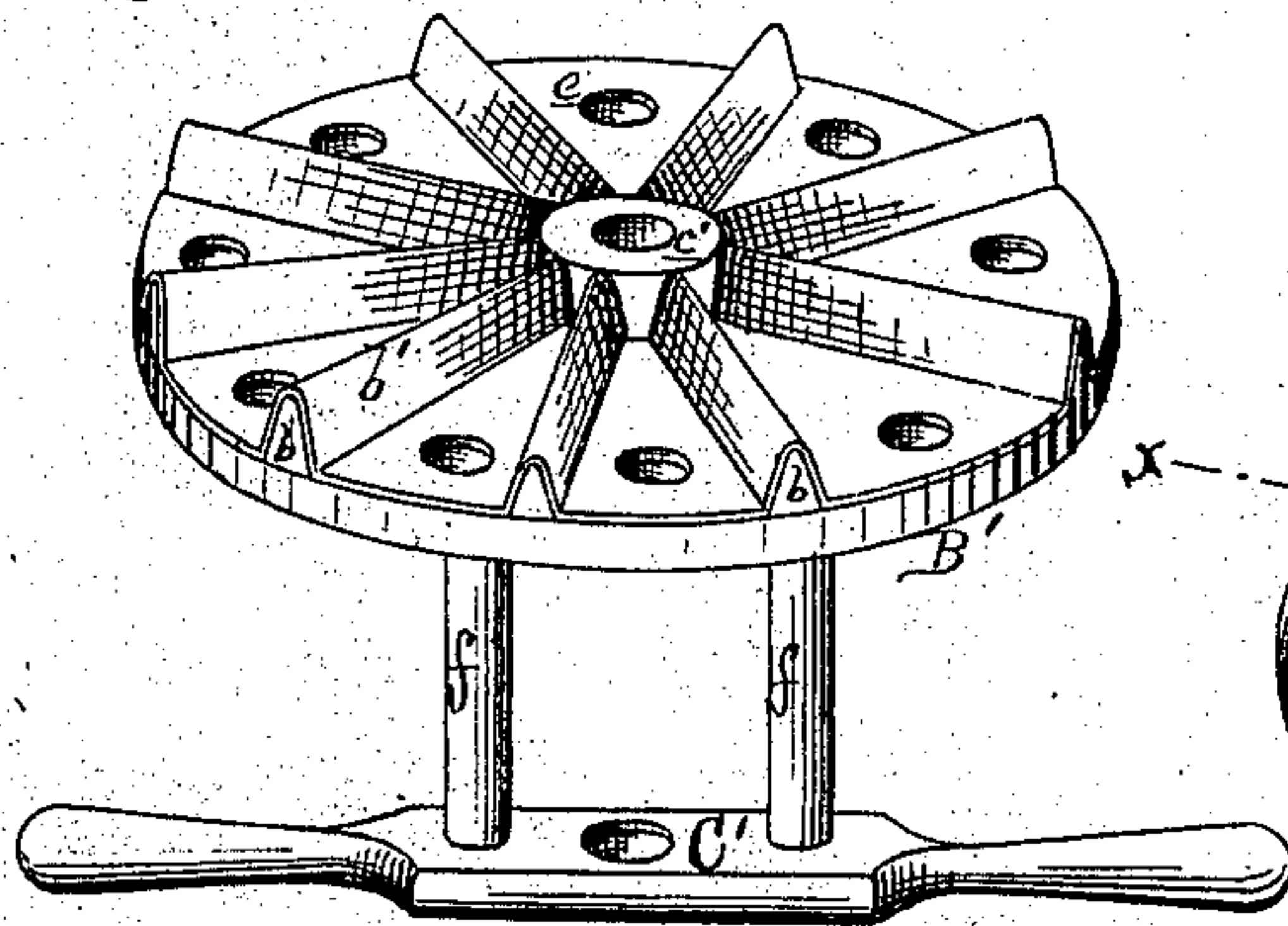


Fig. 3.

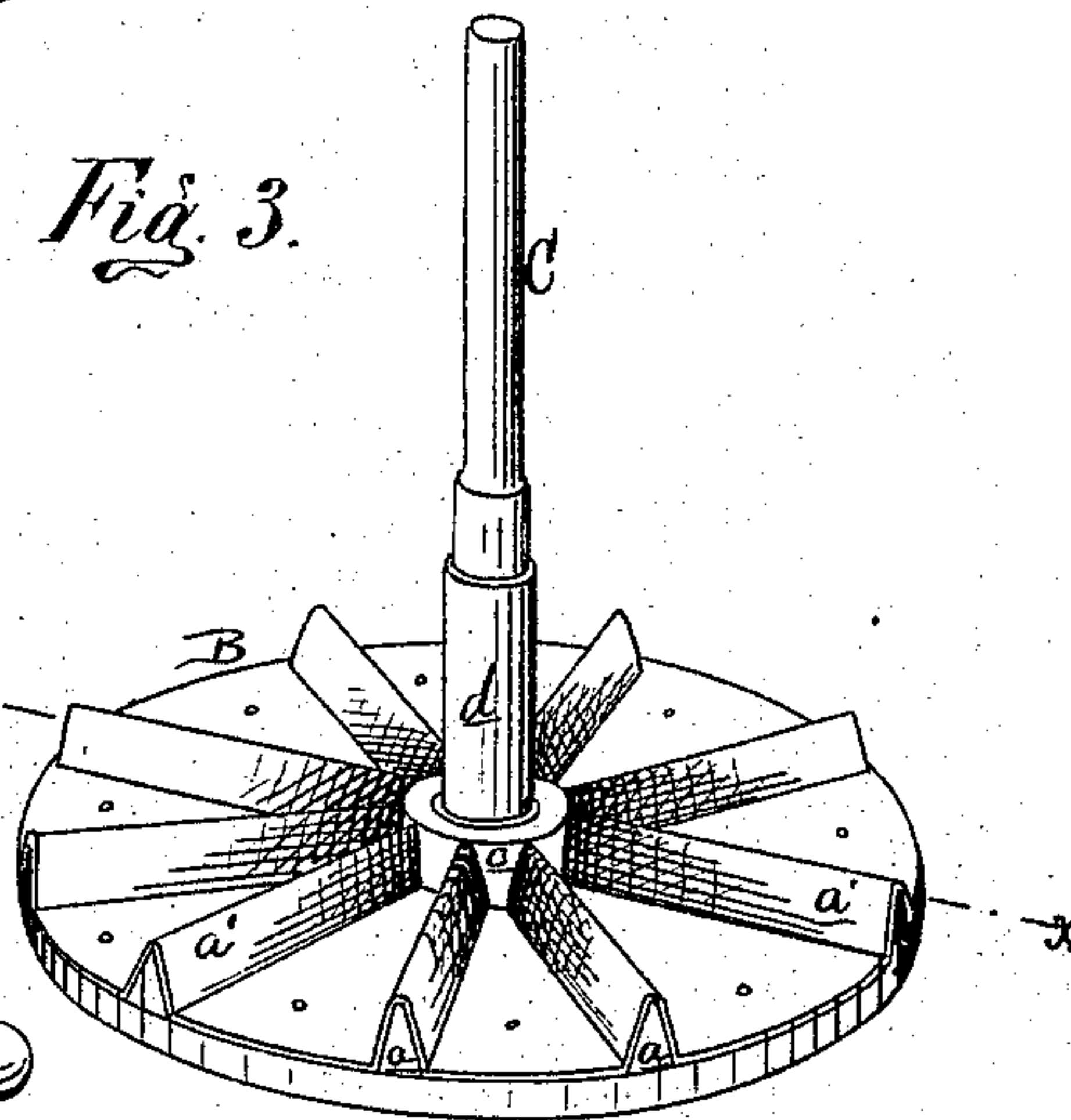
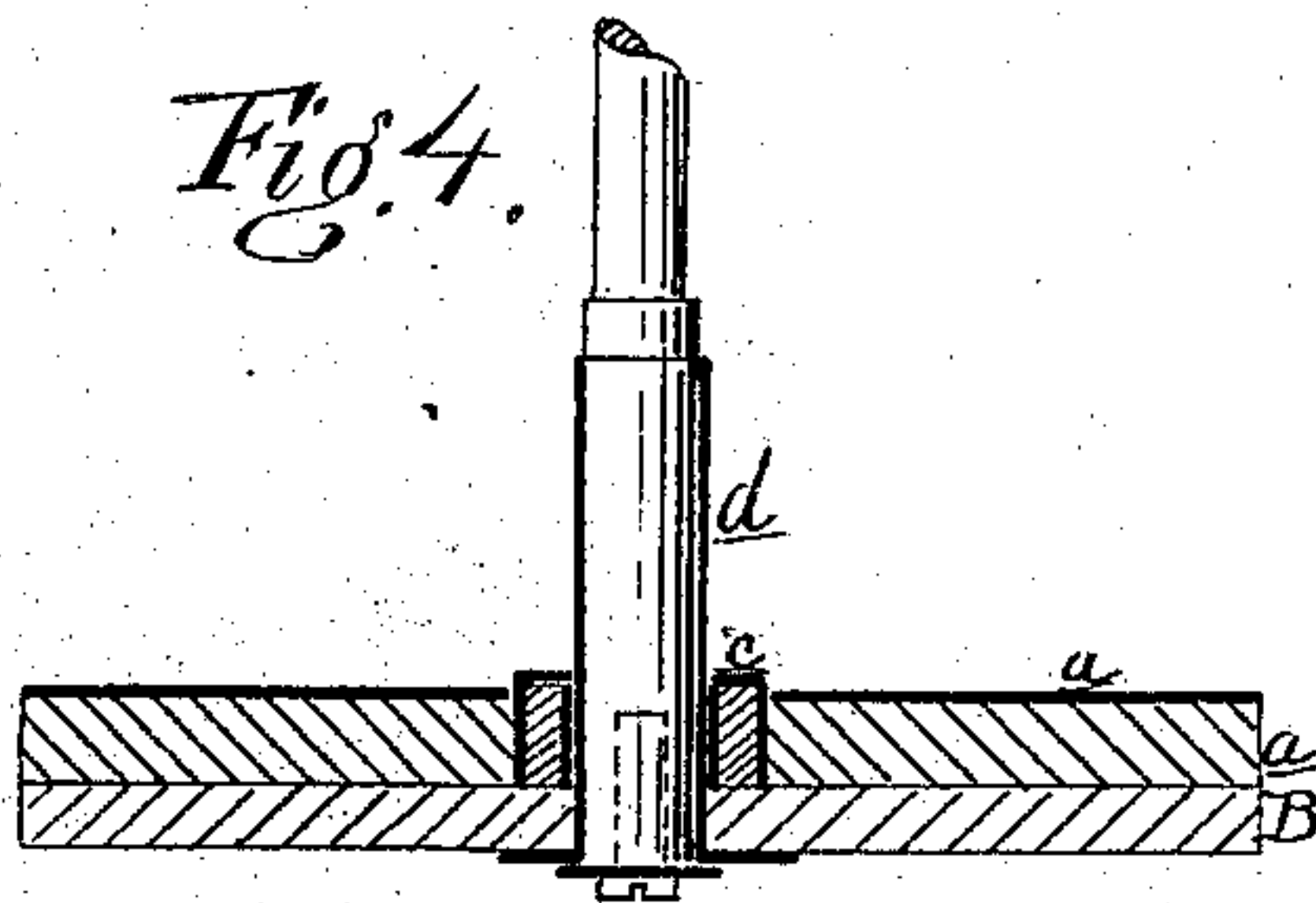


Fig. 4.



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LEWIS COOLEY, OF APPLETON, WISCONSIN.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **177,472**, dated May 16, 1876; application filed March 15, 1876.

To all whom it may concern:

Be it known that I, LEWIS COOLEY, of Appleton, in the county of Outagamie and State of Wisconsin, have invented an Improvement in Washing-Machines, of which the following is a specification:

The nature of my invention relates to an improvement in washers of that class wherein a false bottom provided with radial ribs is placed in a common wash-tub, on which bottom the fabrics are laid, and are cleansed by the action of a similarly-ribbed circular rubber vibrated by a lever-handle.

The invention consists in the construction, arrangement, and combination of the several parts, all as more fully hereinafter explained.

Figure 1 is a perspective view of the washer fitted in a tub, a portion of which is broken away to show it. Fig. 2 is a bottom perspective view of the rubber. Fig. 3 is a detached perspective view of the false bottom and standard. Fig. 4 is a cross-section of the same at *x x*.

In the drawing, A represents a tub, in the bottom of which is placed a removable false bottom, B, of wood, having a series of ribs, *a*, radiating from a central hub, *c*, covered with tin, zinc, or other sheet metal that is not liable to corrode or oxidize. The ribs *a* are covered with sheet metal of the same kind, as at *a'*, as well as the intermediate surfaces of the false bottom. The hub projects above the plane of the ribs. B' is a circular rubber, also of wood, with a metal-covered hub, *c'*, projecting from the center of its under side, from which hub the ribs *b* radiate. These ribs and the entire under surface of the rubber are covered with sheet metal, as seen at *b'*. C is

a wooden standard, rising from the center of the hub in the bottom board, which is bored to receive it, and it is secured in the eye by a wood-screw inserted in its lower end, with a large washer interposed between the head of the screw and the bottom B. The hub of the rubber B' is bored to sleeve upon the standard, and is bushed with sheet metal, while the lower part of the standard has a sheet-metal sleeve-bearing, *d*, sleeved on it, so as to afford a smooth wearing-surface for said bushing. The rubber has a number of holes, *e*, bored in it, between the ribs, to allow the suds to pass freely through, to, and from the fabrics. C' is a lever-handle, connected by two posts, *ff*, with the top of the rubber. This handle has a hole bored in its middle to slip over the standard, which hole is bushed with a sheet-metal thimble to reduce friction. The hubs, at their meeting ends, project beyond the faces of the ribs, and prevent them from coming actually into contact, and thus prevent the tearing of the fabrics. Being smooth, the rubbing surfaces can wear the fabrics but very little, and this makes the device easy to operate.

What I claim as my invention is—

The combination of the movable bottom B, having the radial ribs *a*, the hub *c*, and its face covered entirely with sheet metal, the rubber B', provided with the radial ribs *b*, the hub *c'*, and sheet-metal-covered face, the standard C, and handle C', all constructed and arranged substantially as described and shown.

LEWIS COOLEY.

Witnesses:

S. P. WING,
JOHN BRILL.