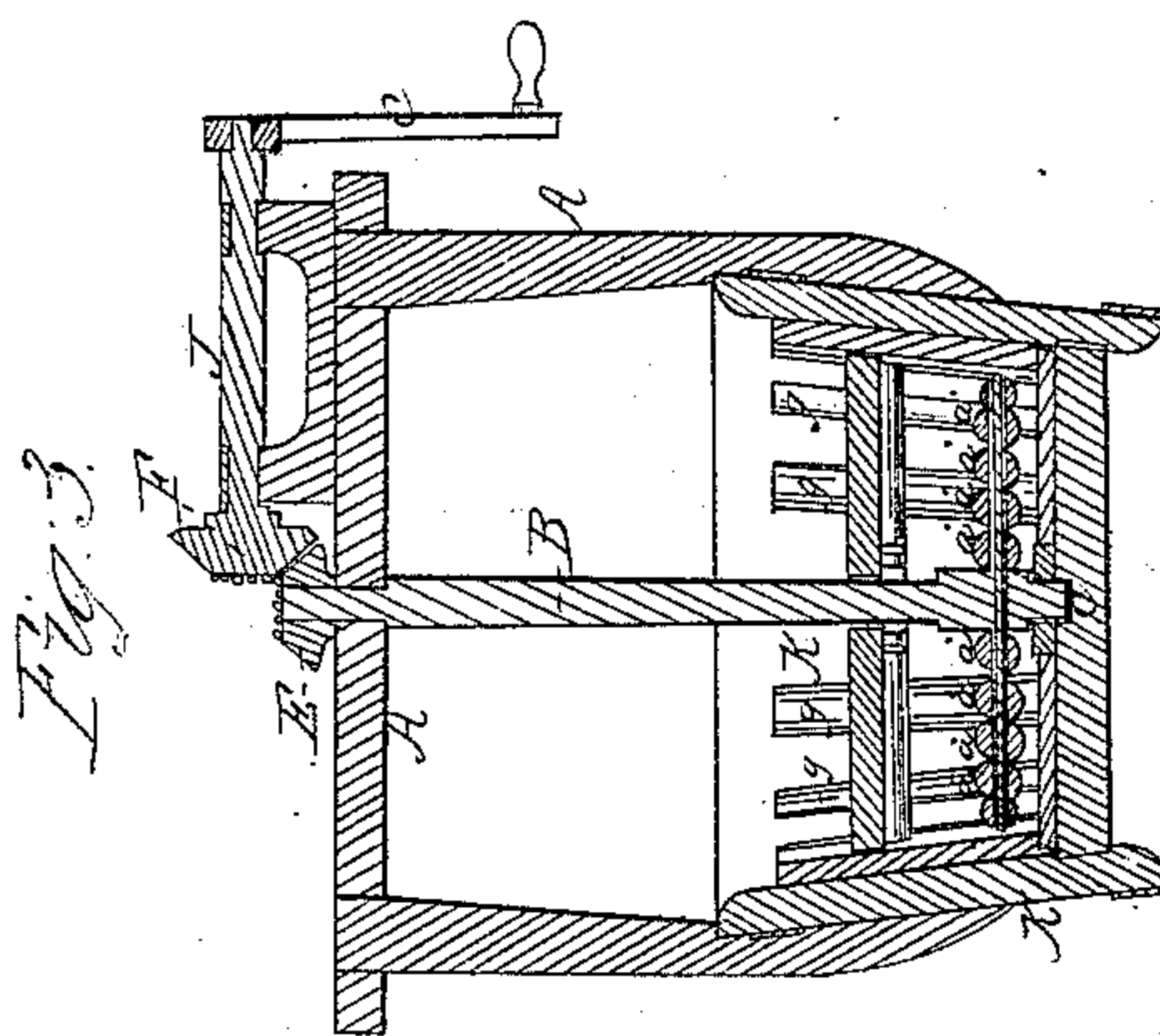
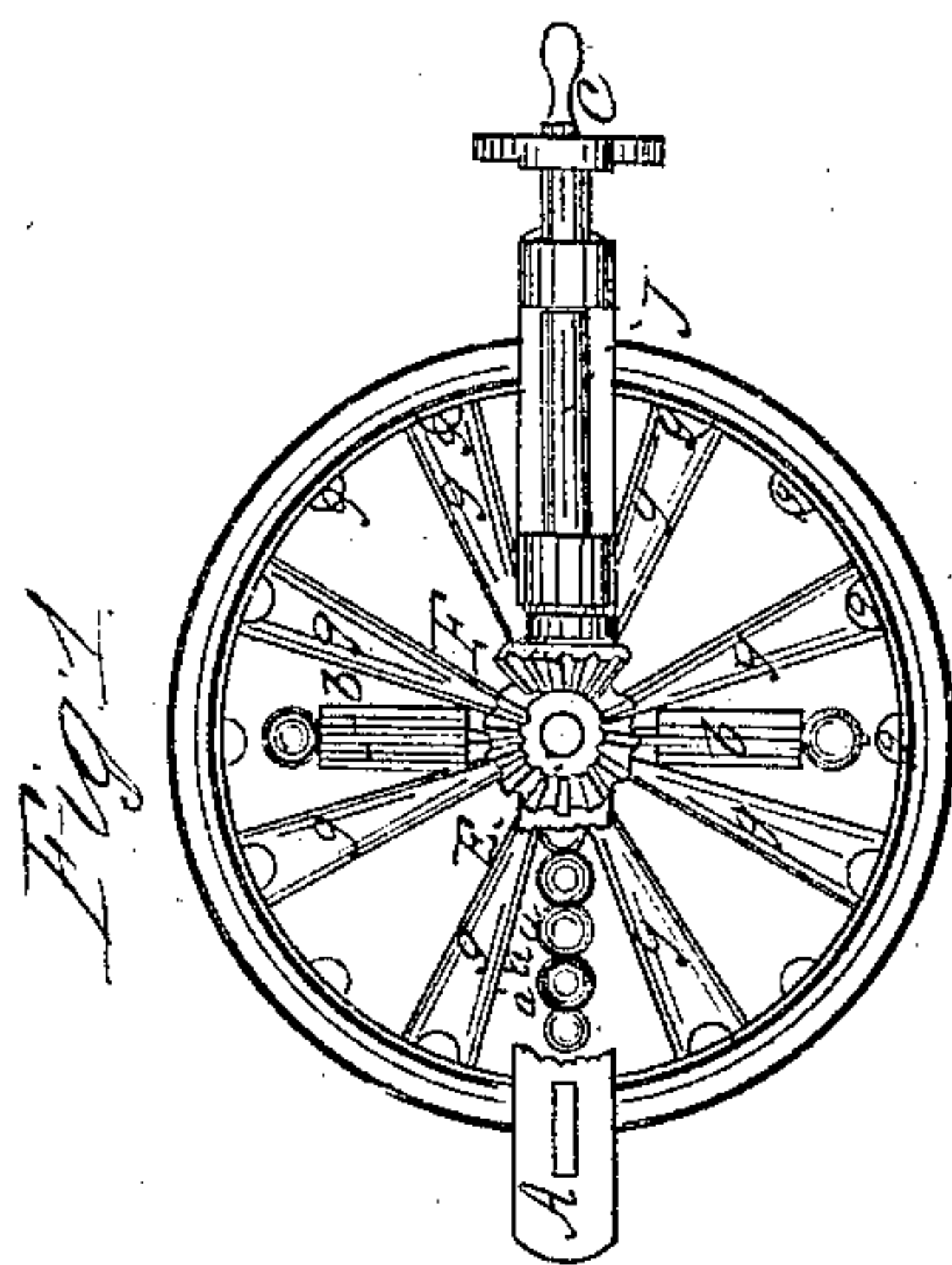
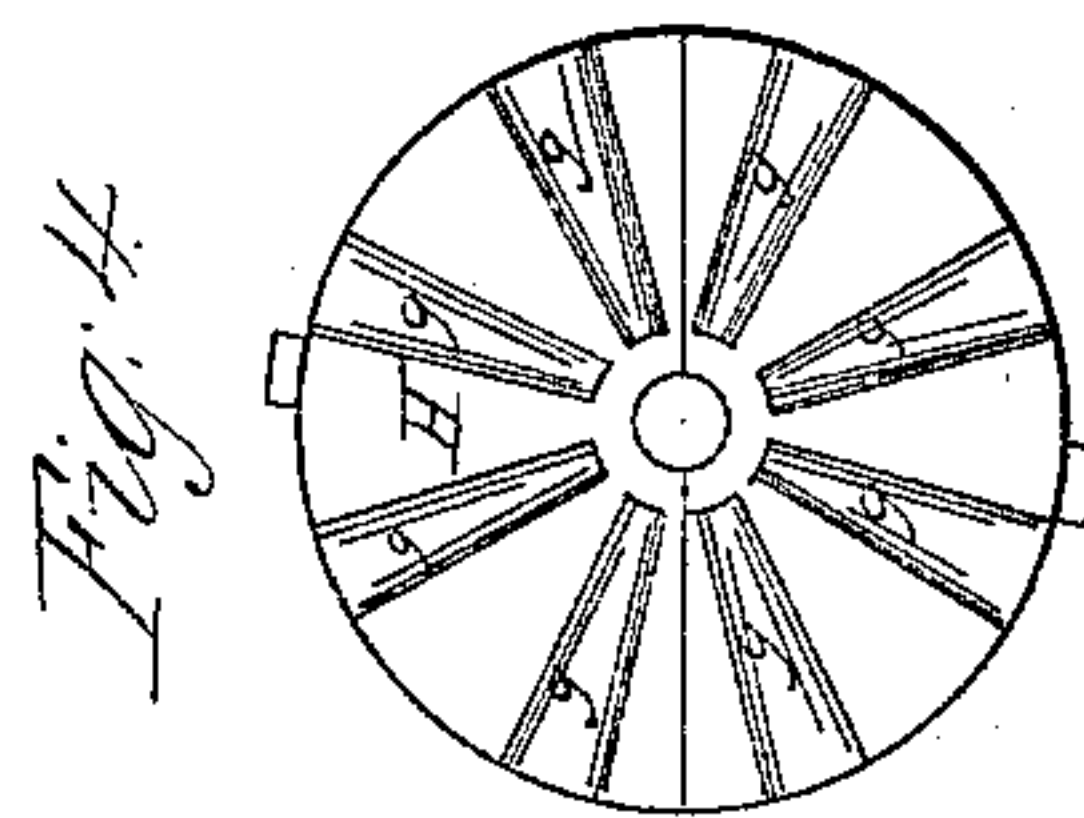
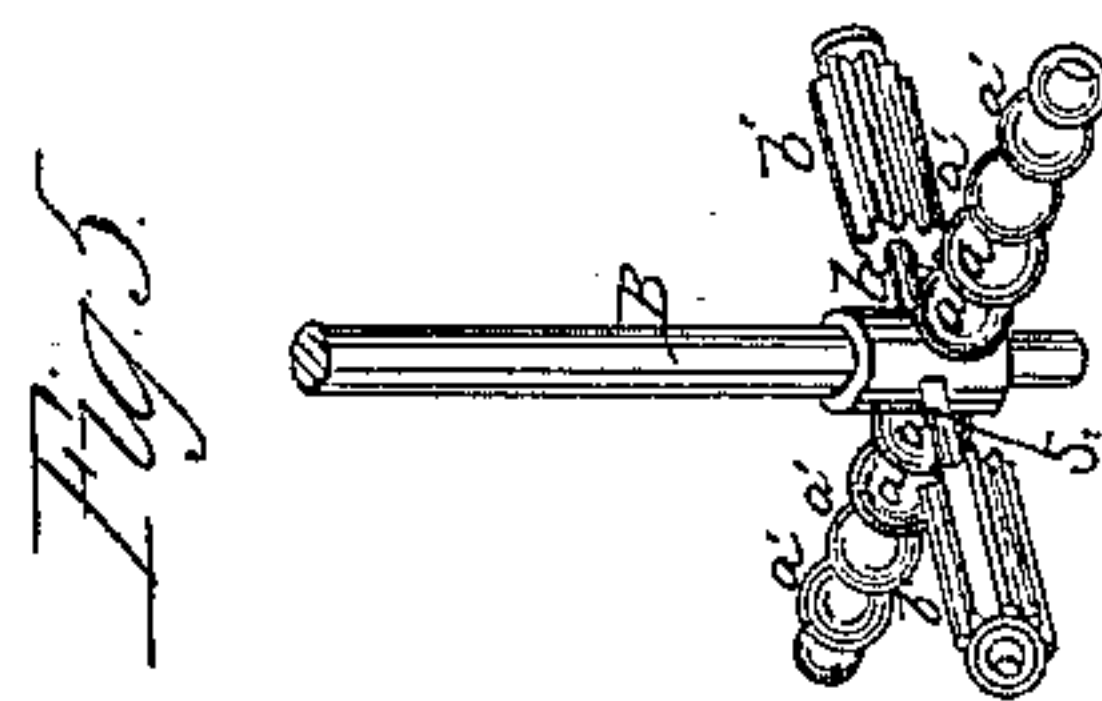
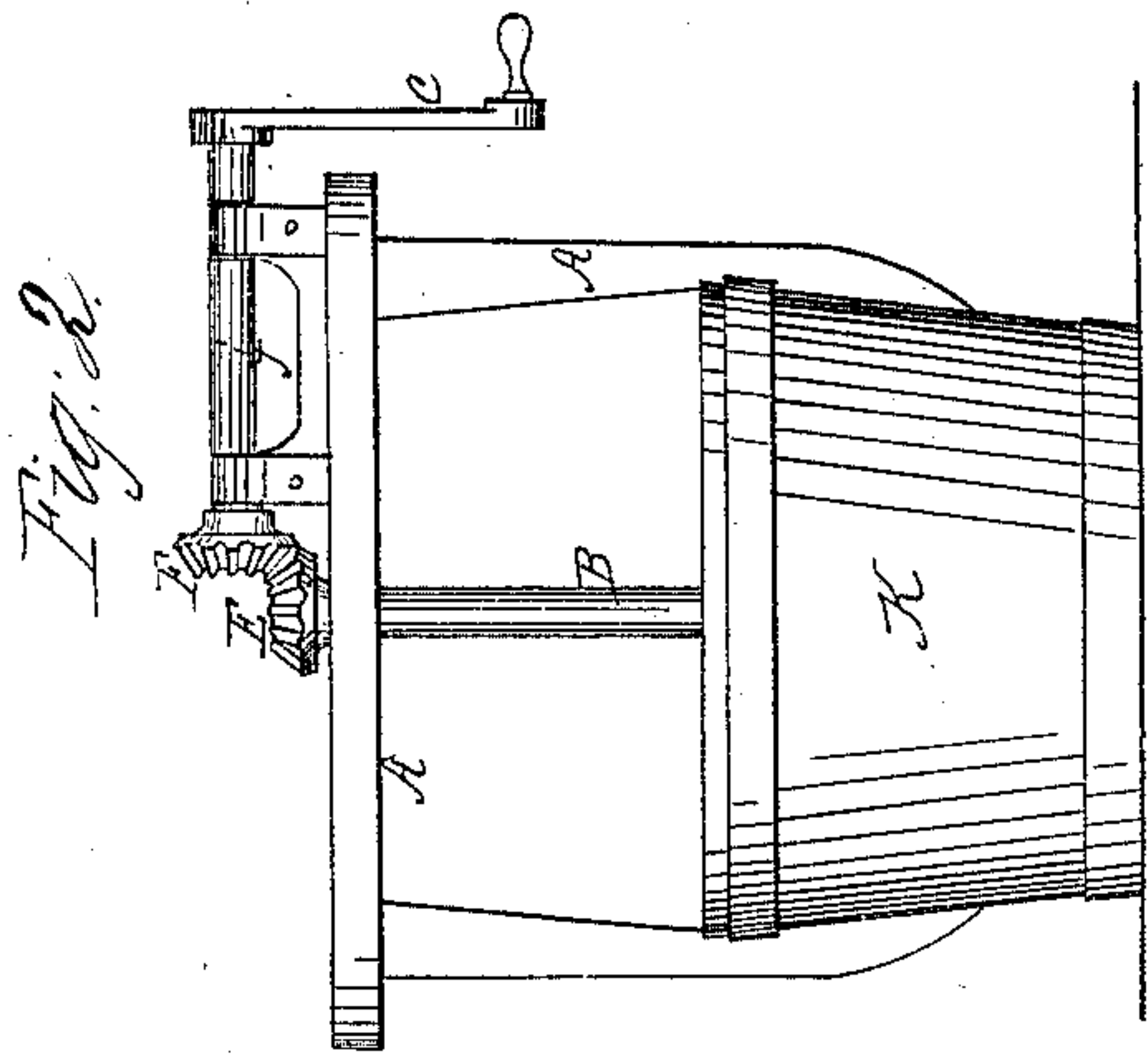


# *D. R. Gamble, Washing Machine.*

*N<sup>o</sup> 32,664.*

*Patented June 25, 1861.*



*Witnesses:*

*W. A. Burroughs  
A. M. Chittenden*

*Inventor:  
D. R. Gamble*

# UNITED STATES PATENT OFFICE.

D. R. GAMBLE, OF NEWARK, OHIO, ASSIGNOR TO HIMSELF AND J. M. CONNEL, OF  
NEWARK, OHIO.

## WASHING-MACHINE.

Specification of Letters Patent No. 32,664, dated June 25, 1861.

*To all whom it may concern:*

Be it known that I, D. R. GAMBLE, of Newark, in the county of Licking and State of Ohio, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full and complete description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1, is a top view. Fig. 2, is a side view. Fig. 3, is a vertical section. Figs. 4, and 5, are detached sections.

The same letters refer to like parts in the different views.

My improvement relates to a washing machine, constructed with a revolving shaft, having arms at the lower end, on which are balls and fluted rollers, that revolve by being brought in contact with the clothes, thereby rubbing them, for the purpose of washing and cleansing. On the inside and bottom of the tub, and also on the under side of the cover, are fluted projections, against which the clothes are rubbed, by the revolution of the arms.

In the several figures A, represents a frame, secured to the outside of the tub, extending up some distance, that supports the crank C, and through which the shaft B, passes. This shaft is revolved, by means of the gear wheels E, and F, on the ends of the shafts J, and B, operating in each other, as the crank C, is turned. The lower end of the shaft turns in a socket *c*, in the bottom of the tub, as shown in Fig. 3. Fig. 5,

represents, a perspective view of this shaft, detached, with the arms *a*, *a*, and *b*, *b*. On the arms *a*, *a*, are round balls *a'*, also on the arms *b*, *b*, are fluted rollers *b'*, *b'*. These balls and rollers revolve on the arms, with the least agitation of the water and clothes, as they come in contact with them. On the inside and bottom of the tub K, are fluted projections *g*, and also on the under side of the lid or covering H, as shown, in Fig. 4.

When the water and clothes are put in the tub, underneath the covering H, by turning the crank C, the shaft B, is revolved, and consequently, the arms *a*, *a*, and *b*, *b*, are forced around among the clothes, the balls *a'*, and fluted rollers *b'*, *b'*, also revolving on the arms. These motions of the balls, rollers, and arms, together with the projections, on the inside of the tub and cover, agitate and rub the clothes in such a way, as to cleanse them thoroughly, in a short time, and they cannot be rubbed, in this way, so as to wear or tear the clothes, for the balls and rollers turning around on the arms prevent this.

What I claim as my improvement and desire to secure by Letters Patent is:

The special arrangement of the rollers or balls *a'*, *b'*, with the revolving arms, in combination, with the ribs or projections, *g*, upon the side and bottom of the tub and cover, when used and operating, for the purpose set forth.

D. R. GAMBLE.

Witnesses:

WM. W. CAFFEE,  
THOS. B. PEASE.