

(No Model.)

C. F. WALTERS.

FLOUR PACKER.

No. 279,678.

Patented June 19, 1883.

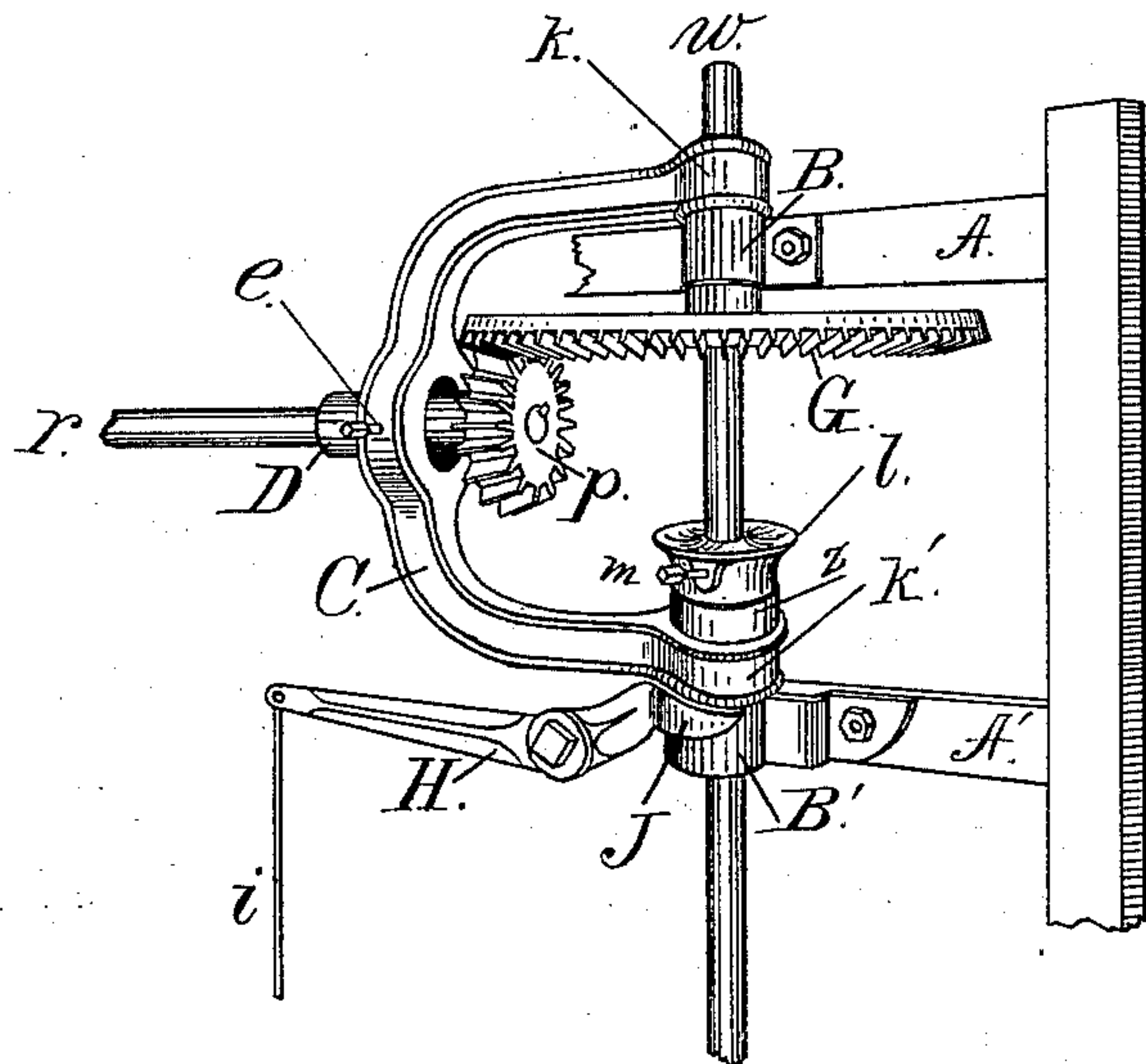


Fig. 1.

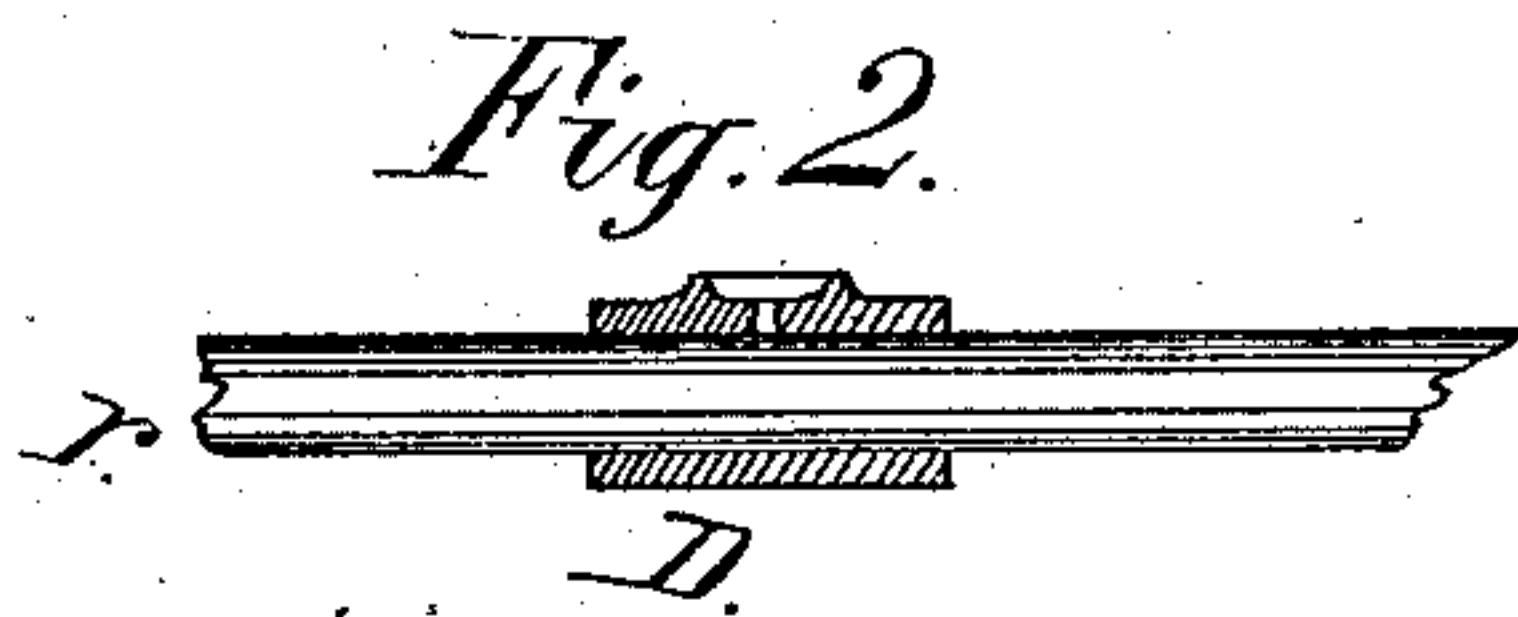


Fig. 2.

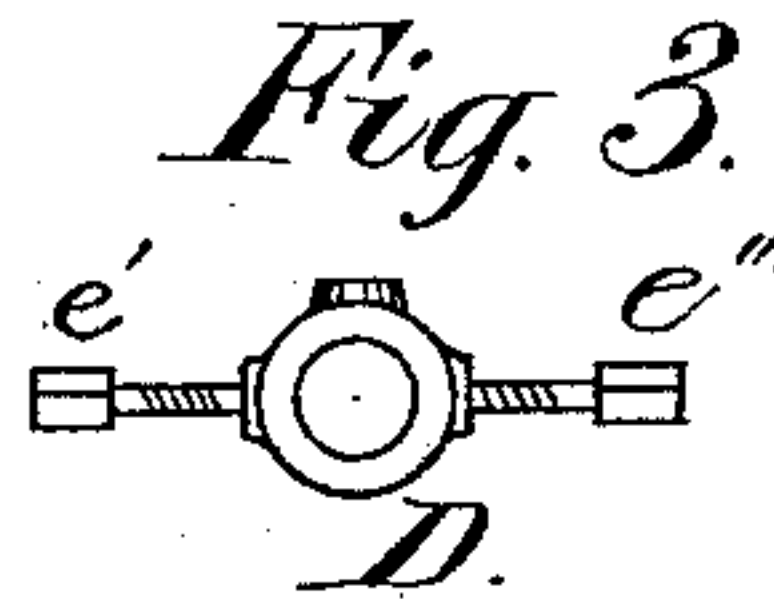


Fig. 3.

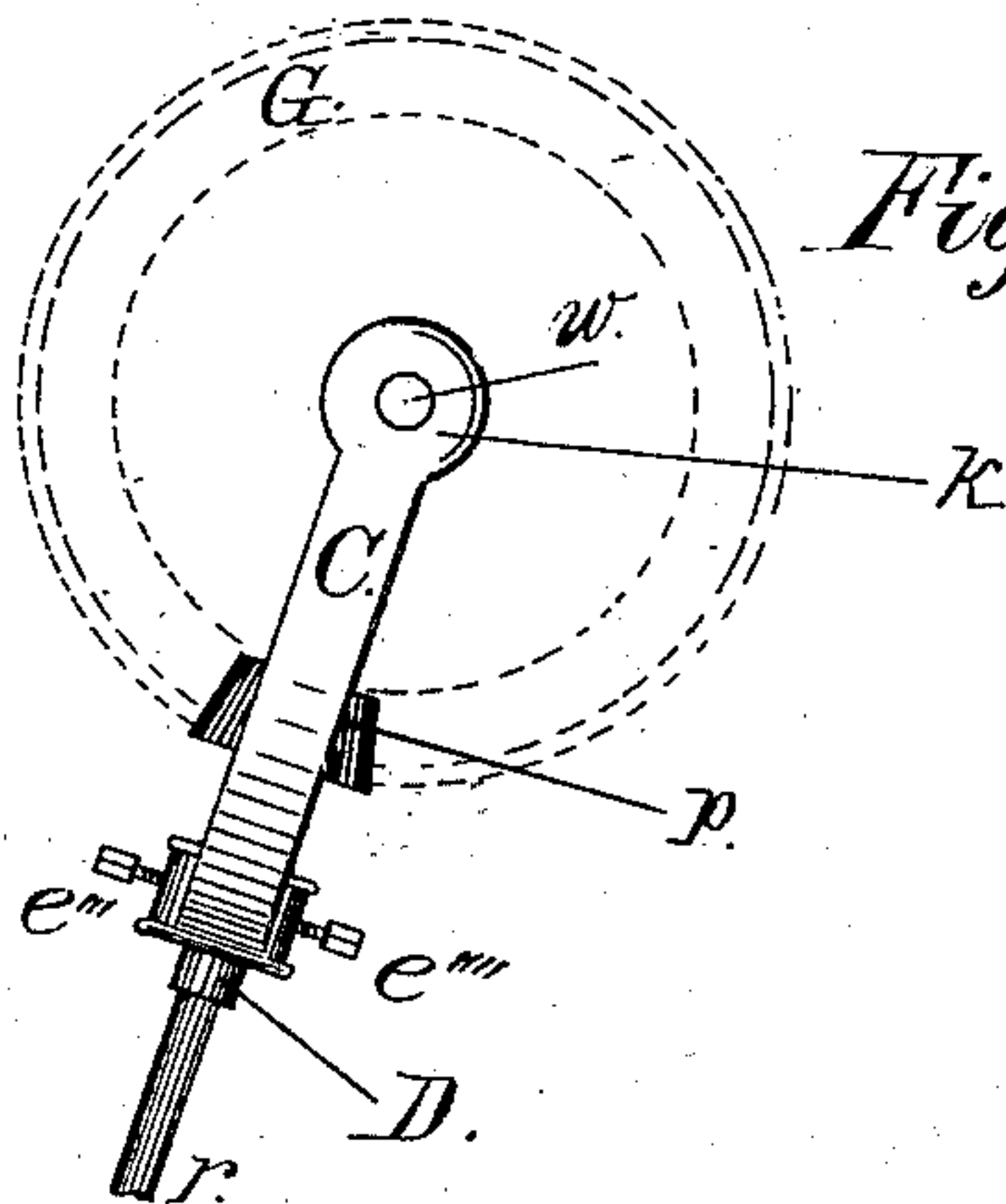


Fig. 4.

Witnesses  
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# UNITED STATES PATENT OFFICE.

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## FLOUR-PACKER.

SPECIFICATION forming part of Letters Patent No. 279,678, dated June 19, 1883.

Application filed May 11, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES F. WALTERS, a citizen of the United States, residing at Richmond, in the county of Wayne and State of Indiana, have invented certain new and useful Improvements in Flour-Packers, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to that class of flour-packers in which the packing device is attached to a vertical shaft to which motion is given by gearing.

My invention consists in the employment of a swinging yoke to support the end of the driving-shaft, carrying a bevel pinion-wheel which engages a bevel master-wheel attached to a vertical shaft, to the lower end of which the packing device is attached.

In the drawings which accompany this specification, forming a part of the same, Figure 1 is a perspective view of my improved swinging yoke and its connections. Fig. 2 is a top view of a section of the driving-shaft and its bearing. Fig. 3 is an end view of the bearing of the driving-shaft, showing the pivotal bearings upon which it has a vertical rocking motion. Fig. 4 is a top view of the yoke-driving shaft and master-wheel.

In Fig. 1, A A' represent the cross-bars of a frame, to which ears or boxes B and B' are bolted or otherwise secured, and which are provided with openings to receive the vertical shaft *w*. The yoke C is semicircular in form, consisting of a frame in a vertical position, the ends of which, *k k'*, are provided with holes of a proper size to receive the shaft *w*, upon which it is permitted a lateral swinging motion. The upper end, *k*, rests upon the ear or boxing B, while the lower end, *k'*, has a similar bearing upon the ear B'. The yoke C is provided with an opening in its central portion, into which a pipe-box, D, is inserted. This box D is loose in the opening, and is suspended therein by screw-pins *e' e''*, Fig. 3, which, passing through the sides of the opening in the yoke, as seen at Fig. 3, serve as trunnions to support the box D and to allow a vertical vibration of its ends. This box D serves as the bearing for the shaft *r*, which, extending through the box, receives on its inner end a bevel-pinon, *p*, which engages a

master-wheel, G, also beveled, and which is fixed upon the vertical shaft *w*.

J is a trip-lever hinged to the framing A' at H and operated by a rod, *i*. The front end of the lever J terminates in a lip or jaw, which rests against the lower surface of the end of the yoke at *k'*. The yoke C being loose upon the shaft *w*, it may be raised and lowered upon the shaft *w* and the pinion *p* engaged or disengaged from the wheel G.

*l* is a collar fitted upon the shaft *w*, and holds the end of the yoke C in position, and is itself held in position by the set-screw *m*.

In Fig. 4 the frame or yoke C is shown in position, with the driving-shaft *r*, box D, screw-pins *e' e''*, and pinion *p* and shaft *w* also in working position, from which it will be seen that the driving-shaft *r* may be attached to and connected with the vertical shaft *w* from any direction in front of the framing A A', to which the yoke C is attached, so that a flour-packer provided with my improvements, as above described, is at once either right-handed or left-handed, as may be required, or may be operated at any desired angle between the two. The box or ear B' is fitted up with Babbitt or other anti-friction linings to constitute the bearing for the upper portion of the shaft *w*, while the upper exterior surface is dressed smooth to receive the lower surface of the yoke end *k'*, and upon which it rests in its swinging right and left.

*w* is a vertical shaft, having its bearings and support in the ears or boxes B B', carrying the packing device at its lower end, and serving as the axis for the swinging yoke C.

Having thus fully described my said improvement, what I claim as my invention, and desire to secure by Letters Patent, is—

1: In a flour-packer, the yoke C, constructed and operating in the manner and for the purpose herein set forth.

2. The combination of the yoke C, pipe-box D, shaft *r*, and pinion *p*, substantially as and for the purpose described.

3. The pipe-box D and screw-pins *e' e''*, in combination with the shaft *r*, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

Witnesses: C. F. WALTERS.

JOHN P. DEAL,  
W. T. DENNIS.