

J. H. Fleming
Windlass Crank
Power.

PATENTED

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71292

Fig. 1

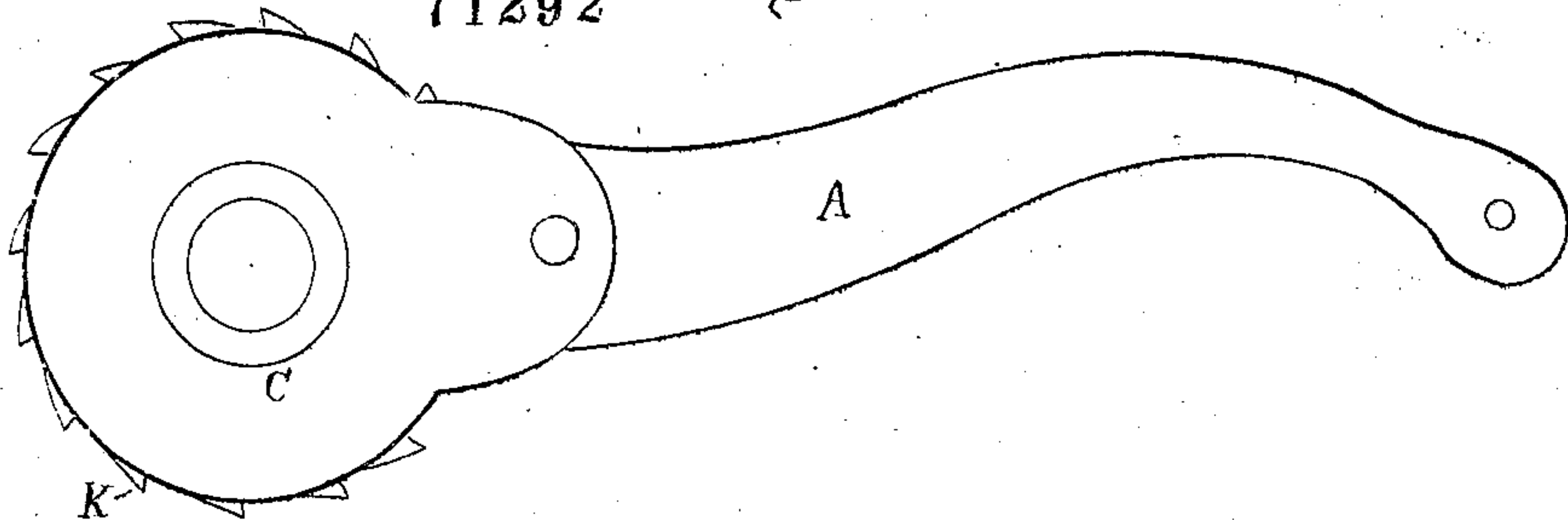


Fig. 2

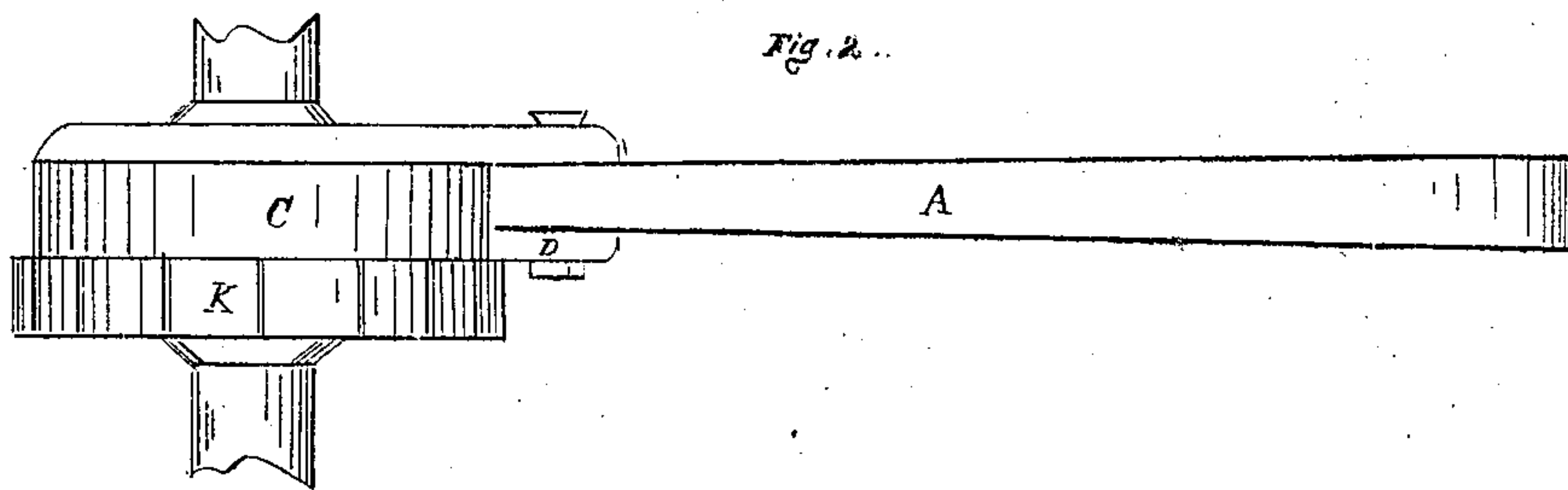
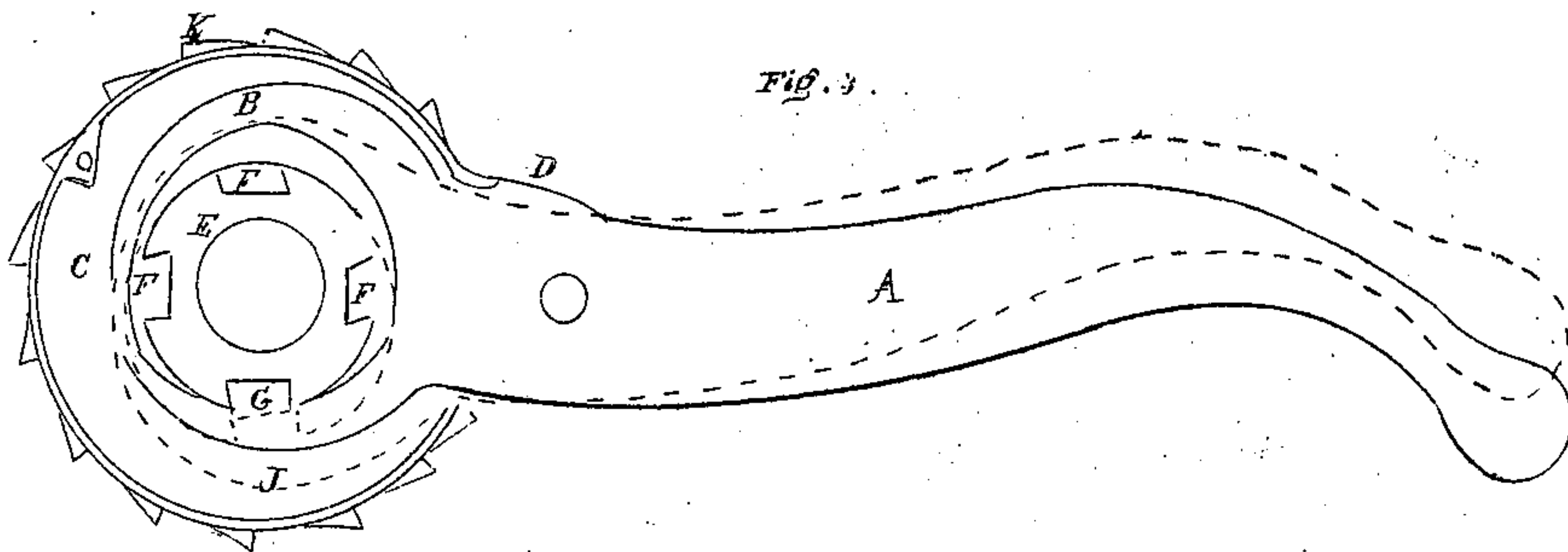


Fig. 3



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Witnesses,
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J. H. FLEMMING, OF GROTON TOWNSHIP, OHIO.

Letters Patent No. 71,292, dated November 26, 1867.

IMPROVEMENT IN WINDLASS-CRANK POWER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, J. H. FLEMMING, of Groton township, in the county of Erie, and State of Ohio, have invented certain new and useful Improvements in Windlass-Crank Power; and I do hereby declare that the following is a full and complete description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view of the crank.

Figure 2 is an edge view

Figure 3 is an inside view.

Like letters of reference refer to like parts in the views.

A, fig. 1, is the handle, one end of which terminates in a ring, B, fig. 3, enclosed in a shell, C. This handle is pivoted to a lip, D, protruding from the side of the shell, as shown in fig. 2. E, fig. 3, is a ratchet-wheel placed within the ring B, and which is provided with deep, square notches F, instead of angular teeth, as in the ordinary ratchet. G is a lug fixed to the inside of the ring, and made to fit into the notches, as shown in the drawing. This lug answers as a pawl, by which the ratchet-wheel is turned, communicating thereby motion to the windlass or roller, around which the rope is wound for drawing up the weight, as follows: The ratchet-wheel is keyed to the shaft of the roller, and turns the same, as the handle is made to turn by the lug G engaging in the notches of the wheel, as shown in fig. 3. Thus the handle, wheel, and roller are moved around together, thereby winding up the rope to which the weight is attached. In order to lower the weight swiftly, or for a rapid unwinding of the rope, the lug is disengaged from the ratchet-wheel, by forcing the handle back in the direction indicated by the dotted lines I, fig. 3, thus throwing the lug back, as indicated by the dotted lines J. The wheel being thus relieved, the roller will turn, and the rope unwind more or less rapidly, according to the weight attached to it. The descent of the weight can be controlled, so as to cause it to descend at any speed, or entirely arrested at any point by forcing upward the handle, and causing the ring B, surrounding the ratchet-wheel, to press strongly upon it, thereby arresting its descent by the induced friction; thus the crank becomes a brake for controlling the speed of the descending weight; hence it is at once a crank and brake combined, operating as either with equal facility and convenience. The weight may be held suspended at any point in its descent or ascent, by means of the ratchet-wheel K, fixed to the side of the shell, and a pawl conveniently placed as to fall upon and into the teeth, at the time that the lug is engaged in the wheel E; thus the weight is securely held by the two wheels and pawls.

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

The handle A, having a loop or ring, B, and lug G, and pivoted to the shell C, arranged in relation to the ratchet E, operating with said loop or ring, and in combination with the pawl and ratchet, substantially as and for the purpose set forth.

J. H. FLEMMING.

Witnesses:

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