

No. 753,353.

PATENTED MAR. 1, 1904.

J. G. BRECKENRIDGE.
CANDY PULLING MACHINE.

APPLICATION FILED OCT. 21, 1903.

NO MODEL.

2 SHEETS—SHEET 1.

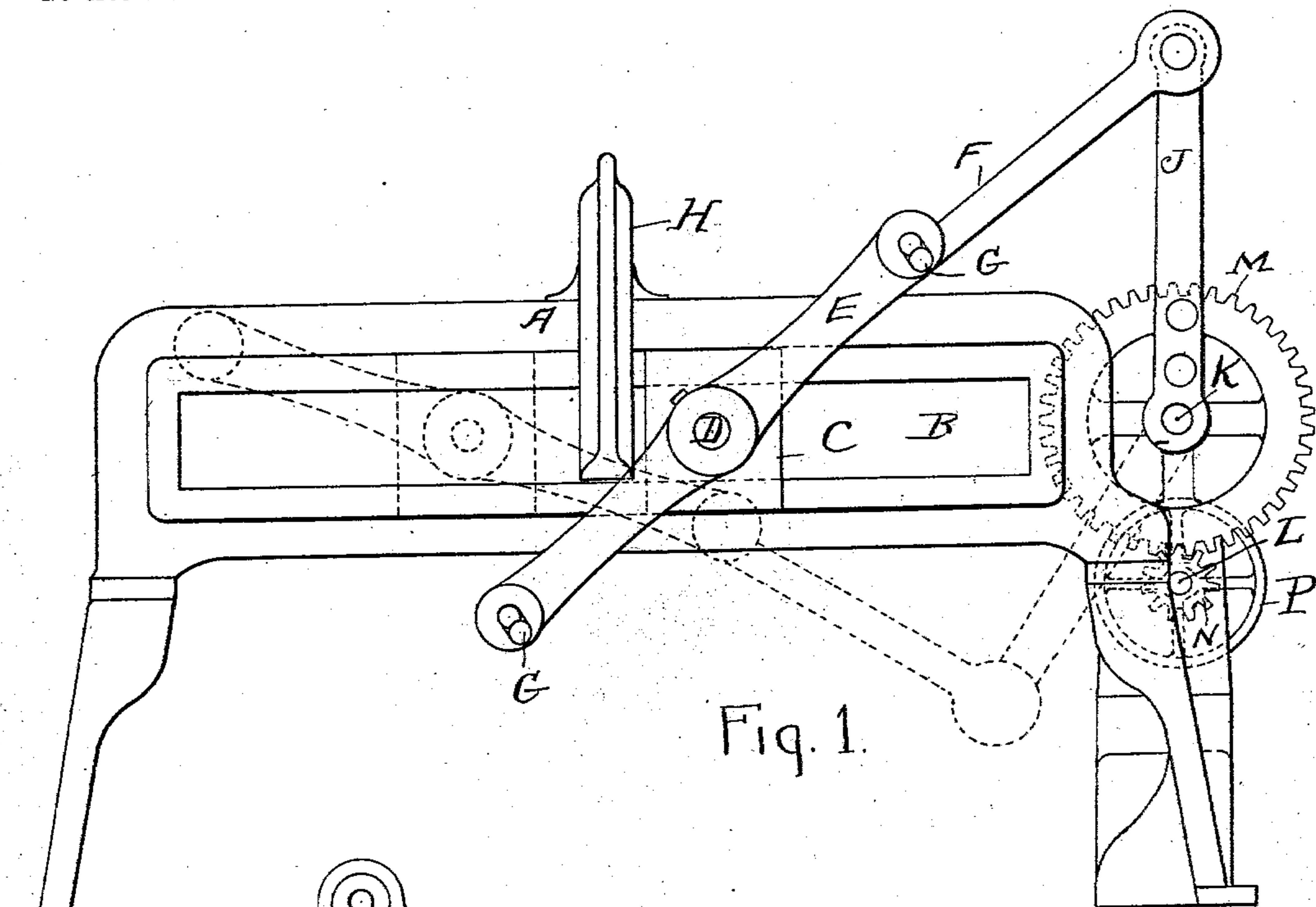


Fig. 1.

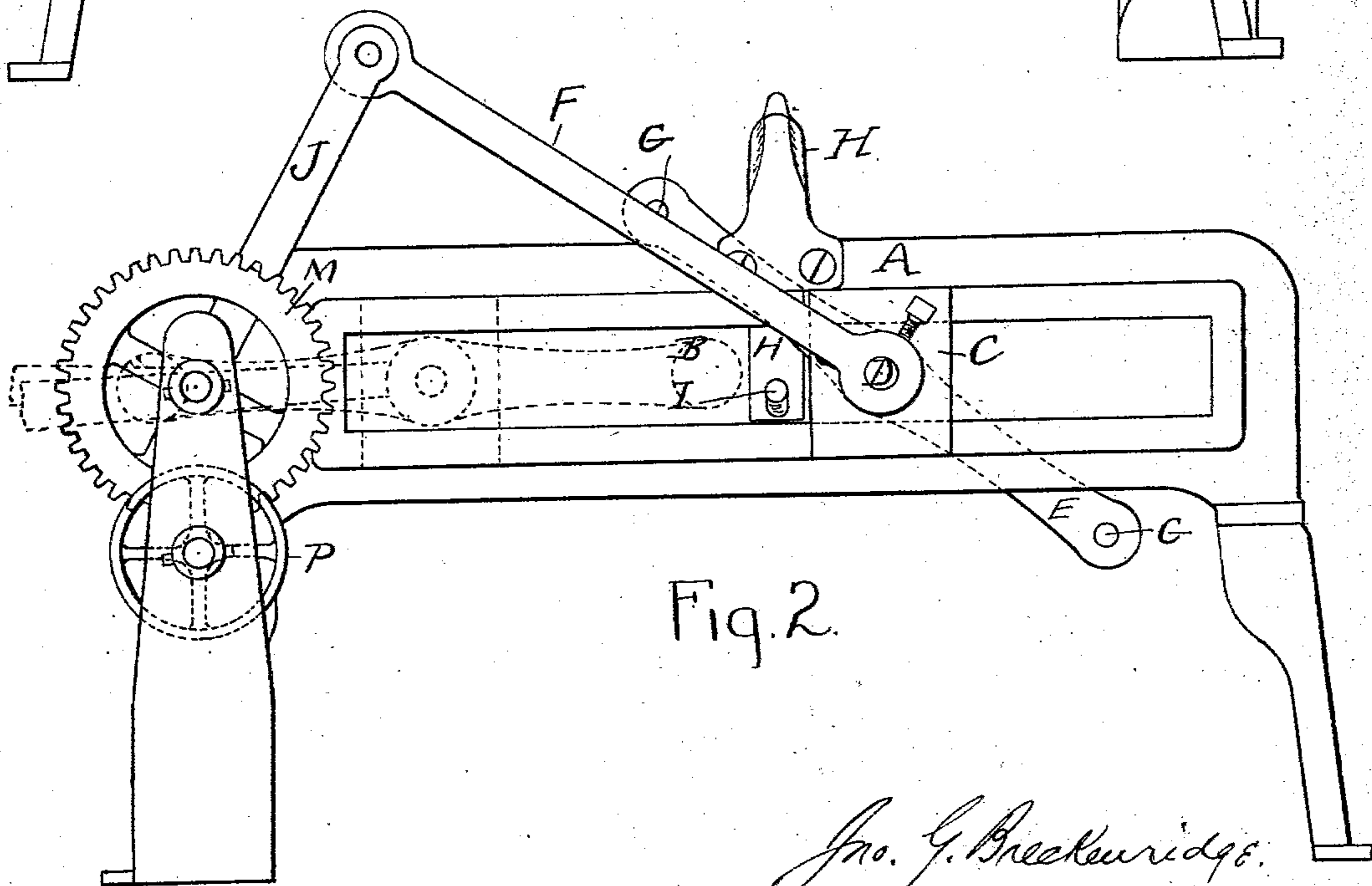


Fig. 2.

Witnesses

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2 SHEETS—SHEET 2.

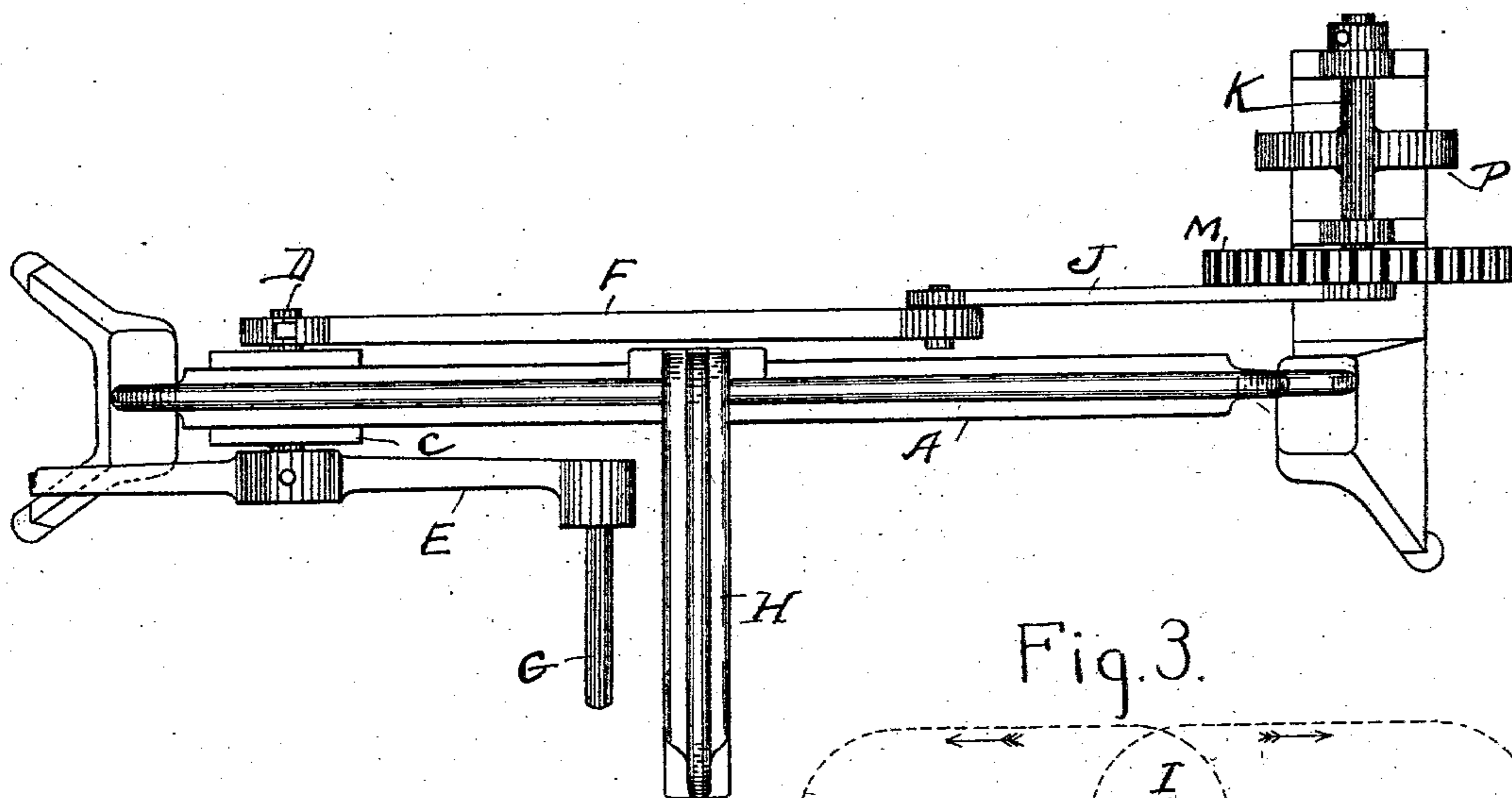


Fig. 3.

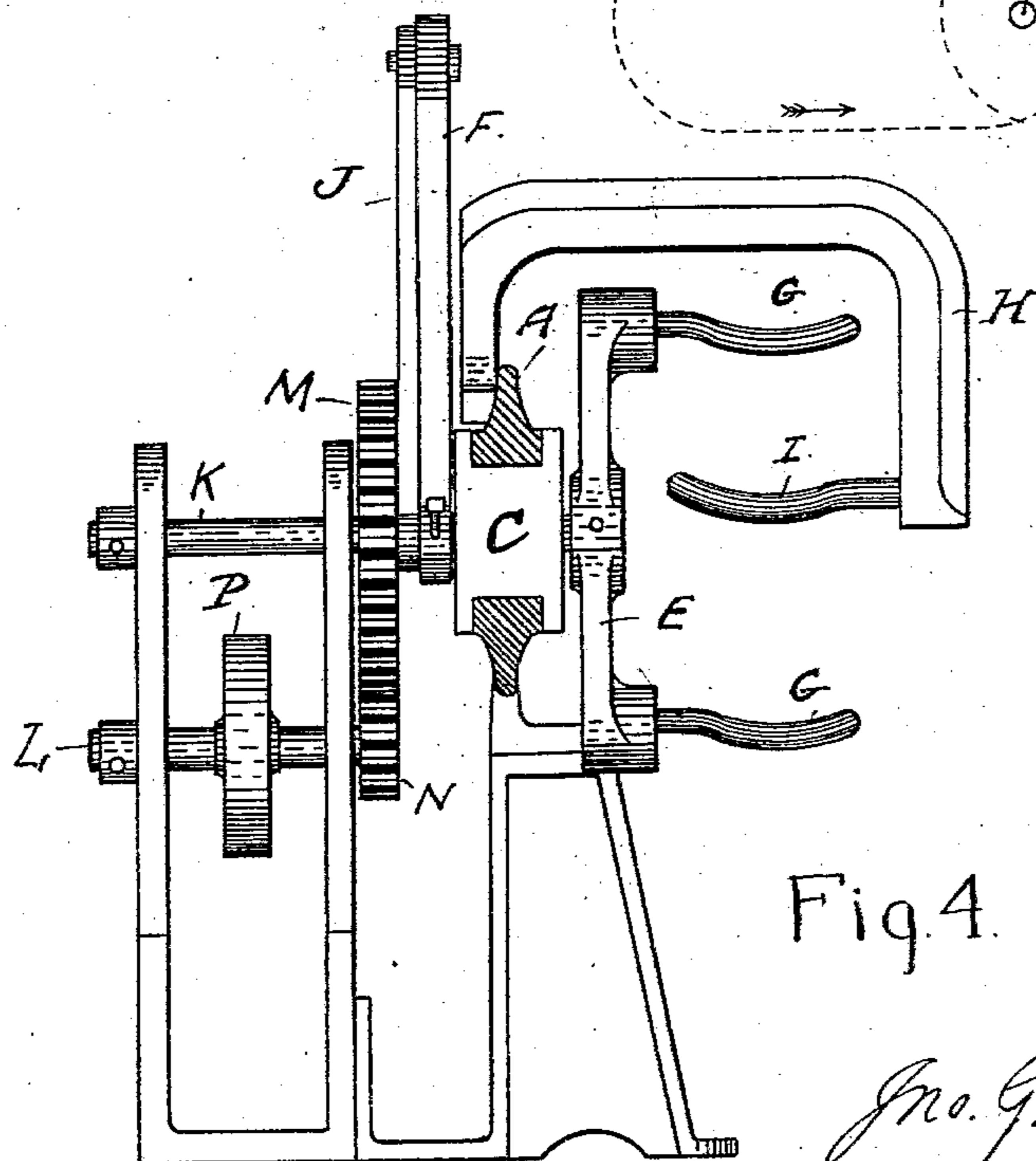


Fig. 4.

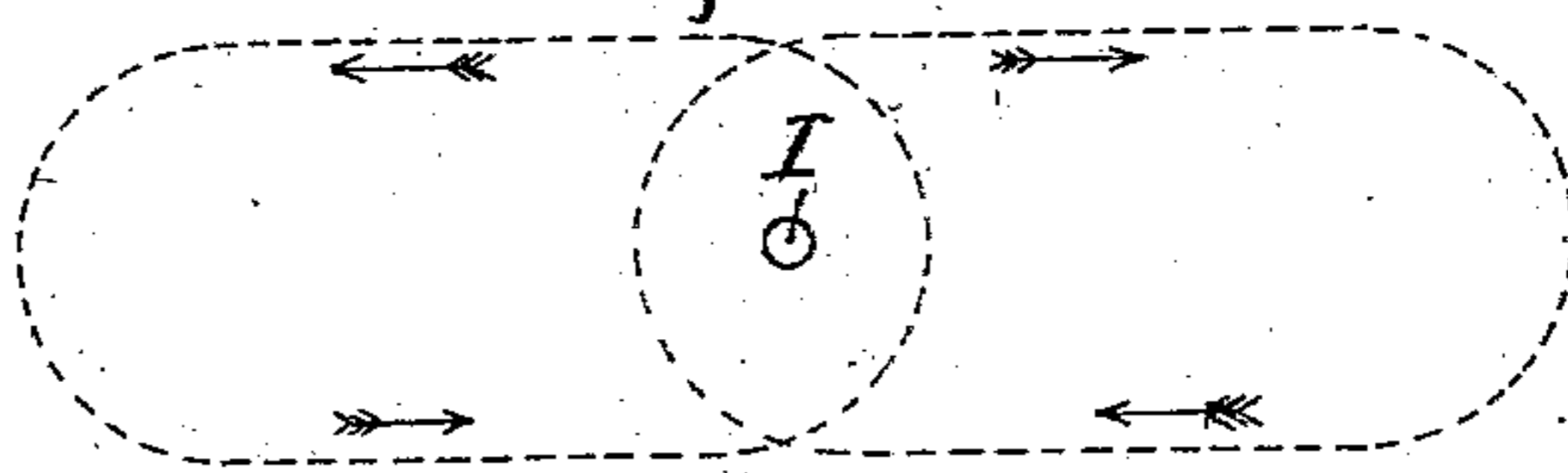


Fig. 5.

Witnesses

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UNITED STATES PATENT OFFICE.

JOHN G. BRECKENRIDGE, OF SPRINGFIELD, OHIO.

CANDY-PULLING MACHINE.

SPECIFICATION forming part of Letters Patent No. 753,353, dated March 1, 1904.

Application filed October 21, 1903. Serial No. 177,853. (No model.)

To all whom it may concern:

Be it known that I, JOHN G. BRECKENRIDGE, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Candy-Pulling Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in candy-pulling machines and possesses the new and useful features hereinafter described and claimed.

Preceding a detailed description of the invention, reference is made to the accompanying drawings, of which—

Figures 1 and 2 are elevations of opposite sides of the machine. Fig. 3 is a top plan view. Fig. 4 is an end view of the same. Fig. 5 is a diagram showing the travel of the movable hooks.

In a detail description of the invention similar reference characters indicate corresponding parts.

A designates the frame of the machine, which has a longitudinal slot B, the upper and lower edges of which maintain a slide C, which is movable the length of said slot and in which is loosely mounted a shaft D. One end of said shaft is rigidly secured to a pulling-arm E, which lies adjacent to one side of the frame, and the other end of said shaft has rigidly connected to it a connecting-rod F, by means of which the slide C and the arm E are given horizontal reciprocating movements lengthwise of the frame, and the pulling-arm E is simultaneously given a reciprocating oscillatory movement. The ends of the arms E are provided with candy-pulling hooks G, which project outwardly and have suitable curvatures to catch and pull the candy in the operations of the machine, as hereinafter described.

H designates an arch projecting from the frame midway of its length and lying on one side thereof. The lower or outer end of this

arch lies beyond or on the outside of the outer ends of the candy-hooks G in order that the latter may have free movement back and forth.

I designates a stationary hook projecting inwardly from the lower end of the arch H and occupying a position parallel with the hooks G on the pulling-arm E.

J is a crank-arm connected to a counter-shaft K, which is driven from a main shaft L through a gear-wheel M and a pinion N, the latter being driven from belt-pulley P on shaft L and adapted to drive the shaft of the crank-arm at the necessary reduced speed.

The full and dotted positions of the pulling-arm E in Fig. 1 represent the reversed movements of said arm, the full lines being the rearward stroke and the dotted lines representing the forward stroke. The dotted position in Fig. 2 represents the position of said pulling-arm at the extreme limit of its rearward movement. Such position will be the same at either end of its movements. Throughout the various positions assumed by the pulling-arm the connecting-rod F and said arm will be in the same relative positions.

From the illustrations it is clear that in the operations of the machine the pulling-hooks G will alternately pass below and above the stationary hook I, one of said hooks G engaging in its upward movement the candy adjacent to the stationary hook I and while said candy is being pulled by the other hook G. The candy is lifted by such hook and is carried thereby to one end of the machine in a direction the opposite to that in which it was carried by the other hook G. This is clearly illustrated in the diagram Fig. 5, which represents the travel of the pulling-hooks G relatively to the stationary hook I in the combined movements of said pulling-hooks.

The operation of the machine is as follows: The candy is secured to the stationary hook I and to one of the hooks G, the pulling-arm being first moved in a position to bring one of said hooks G adjacent to the stationary hook I. The machine is then started, and in the operation the pulling-arm E is reciprocated horizontally on both sides of the stationary hook to the limit of the guide-slot B. During such movement the pulling-arm is also

oscillated in a reciprocatory manner, moving the hooks G above and below the stationary hook I to catch the candy and pull it in both directions.

5 Having described my invention, I claim—

1. In a candy-pulling machine, a frame, a stationary hook to support the candy while being pulled, a pulling-arm having hooks thereon to engage the candy held by the stationary
10 hook and to pull the same in opposite directions, a slide upon which said arm is mounted, and a crank adapted to move said slide and to impart to the pulling-arm simultaneously a horizontal reciprocating and a reversed oscillating movement, whereby the candy held
15 on the stationary hook is pulled in opposite directions, substantially as set forth.

2. In a candy-pulling machine, a frame having a longitudinal guide-slot therein, an arch
20 projecting laterally from the median portion of said frame, an inwardly-projected stationary candy-hook on said arch adapted to hold the candy while being pulled in opposite directions, a pulling-arm having hooks on opposite
25 points thereof to engage the candy to pull the same in opposite directions, a slide movable in the guide-slot in the frame and upon which the

said arm is supported, and crank connections adapted to impart to said slide a longitudinal reciprocating movement and to impart to the
30 pulling-arm an oscillating reciprocating movement, substantially as set forth.

3. In a candy-pulling machine, the combination with a frame having a longitudinal guide-slot, a stationary candy-hook projecting
35 laterally from said frame, a slide movable in the guide-slot in said frame, a shaft loosely mounted in said slide, a pulling-arm secured to said shaft on one side of the slide, said pulling-arm having hooks projected outwardly
40 therefrom, said hooks being adapted to pull the candy supported on the stationary hook in opposite directions, and crank connections between the shaft of the slide and pulling-arm and whereby longitudinal reciprocating
45 and oscillating movements are simultaneously imparted to the pulling-hooks, substantially as set forth.

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

JOHN G. BRECKENRIDGE.

Witnesses:

R. J. McCARTY,

THOS. B. HERRMAN.