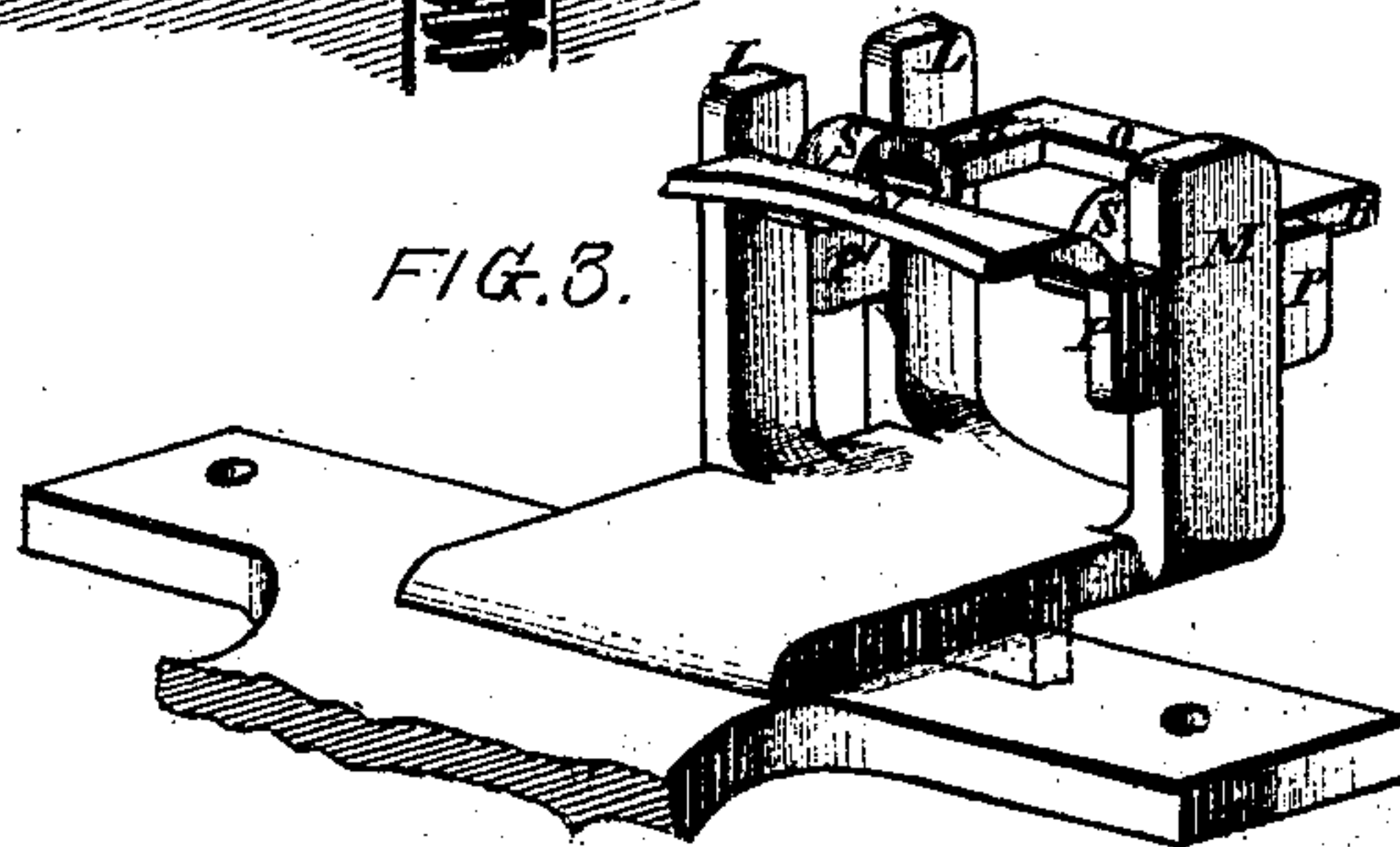
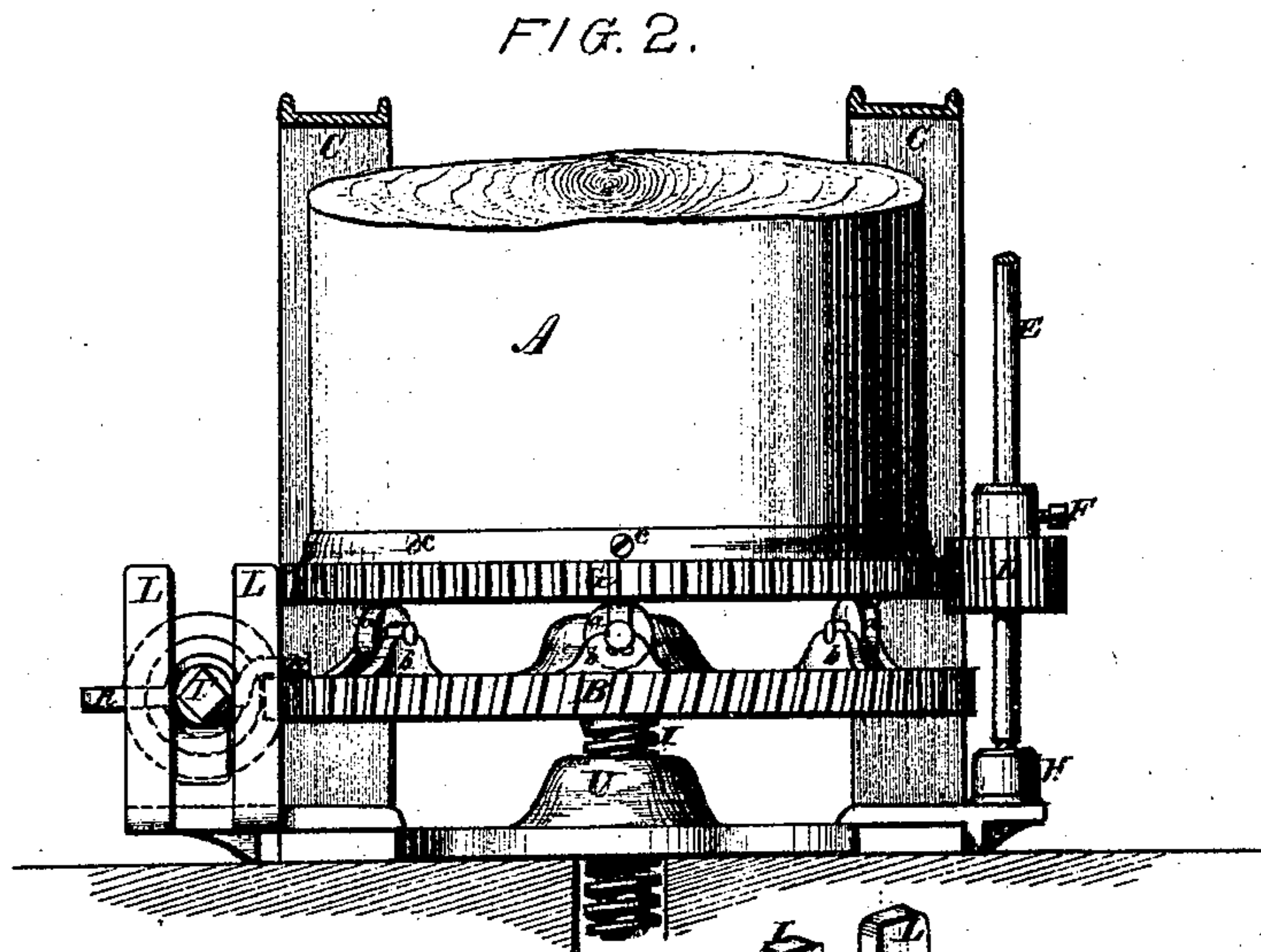
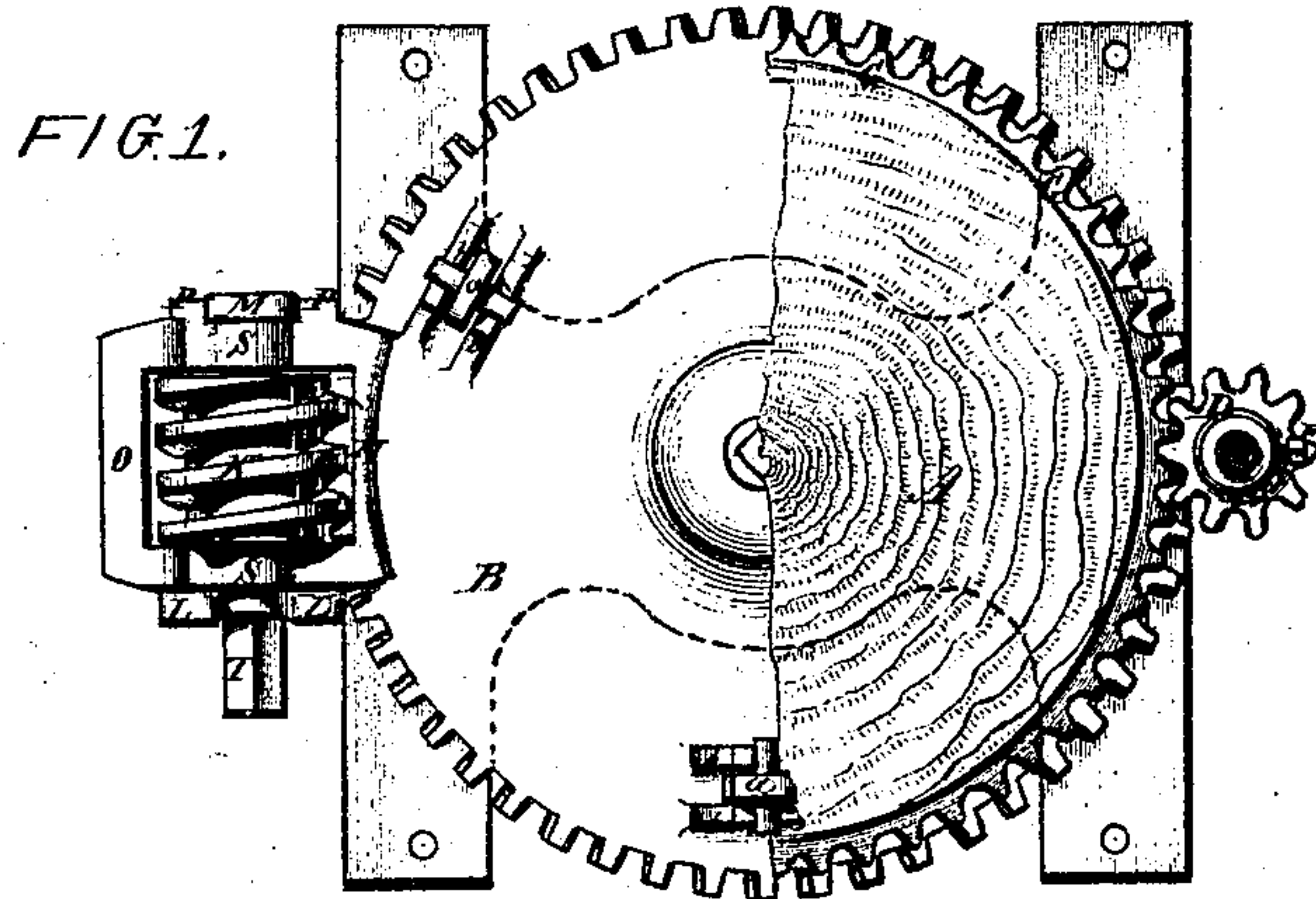


G. F. Trenlieb,

Meat Cutter

No. 98,318.

Patented Dec. 28, 1869.



Witnesses:
Geo L. Ewin
Frederick M. Klaucke

Geo F. Trenlieb
*By *Wm. H. Smith**

United States Patent Office.

GEORGE P. TREULIEB, OF BALTIMORE, MARYLAND.

Letters Patent No. 98,318, dated December 28, 1869.

IMPROVEMENT IN MEAT-CUTTERS.

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

I, GEORGE P. TREULIEB, of the city of Baltimore, in the State of Maryland, have invented a new and useful Improvement in Meat-Cutters; and do hereby describe the same.

Nature and Objects of the Invention.

My invention consists in a novel device for raising the block toward the knives as it wears away in the operation.

General Description with Reference to the Drawings.

In the accompanying drawings—

Figure 1 is a plan or top view of the apparatus, one-half of the block removed, in order to show its supports.

Figure 2 is an elevation thereof.

Figure 3 is a perspective view of the sliding frame supporting the worm, hereinafter described.

Like letters of reference indicate similar parts in the different figures.

A represents the block, resting on rollers *a a a*, which, running in bearings *b b b*, rigidly attached to the horizontal worm-wheel B, allow the block A to revolve freely during the cutting-operation.

C C are upright posts, between which the block moves, and by which it is held in position.

D is a pinion, adapted to slide up and down in the vertical driving-shaft E, and held, by a set-screw, F, in any position to which it may be adjusted. Its teeth mesh into the horizontal gear-wheel or rim G, which is attached to the block A by screws *c c*, or other means, for the purpose of communicating rotary motion thereto.

The shaft E turns in a step, H.

The elevating-screw I is rigidly attached to the horizontal worm-wheel B, and moves in a female screw, U, which is formed in the bed-plate of the machine.

K represents the endless screw or worm, which gears with the horizontal wheel B.

L L M, fig. 3, are guides, on which the frame of the worm K slides, respectively, up or down. They may be extended to any desired length, to accommodate the position of the worm to the respective position of the worm-wheel B.

N O, fig. 3, are side bars of the frame, the former of which, being bent upward, and extending inward of the machine, as shown in fig. 2, rests on the surface of the wheel B, thus supporting the worm in proper position.

P P are slides, moving on the outer sides of the guide M, while the slide P' moves between the two guides L L.

R R are the cross-bars of the frame, forming, in their extension between the side bars N and O, the bearings S S, for the axis T, fig. 1, of the worm.

Operation.

In order to raise the block A, forward motion is given to the worm K by means of a crank or key applied to its axis T. The worm K, gripping into the teeth of the gear-wheel B, turns the latter, and thus causes the screw I, rigidly attached to it, to rise, and lift it, and, with it, the block A. The pinion D is then brought into suitable position, and, after being rigidly attached to the vertical shaft E, by means of set-screw F, motion is given to the shaft E, by which the block is turned. While thus raising the apparatus, the side bar N of the frame, resting on the surface of the gear-wheel B, follows the upward movement of the latter, and, being rigidly attached to the cross-bars R R, forming the bearings of the axis T of the worm, cause the latter to rise in the same proportion, being held in its horizontal position by means of the guides L L and slide P' at one side, and by means of the guide M and slides P P at the other side.

The guides L L M may be made of any desired or suitable length, so as to allow the worm to follow the upward movement of the apparatus to any desired extent.

Claims.

I claim, as my invention—

1. In combination with the worm K, the frame N O R R, bearings S S, guides L L M, and slides P P P', all constructed and arranged substantially as and for the purposes specified.

2. The combination and arrangement of the block A, rollers *a a a*, worm-wheel B, worm K, its frame N O R R S S, guides L L M, slides P P P', screw I, and female screw U, substantially as and for the purposes herein set forth.

To the above specification of my invention, I have set my hand, this 21st day of October, 1869, in the presence of two subscribing witnesses.

GEO. P. TREULIEB.

Witnesses:

D. P. BROWN,
JOHN F. KAMPE.