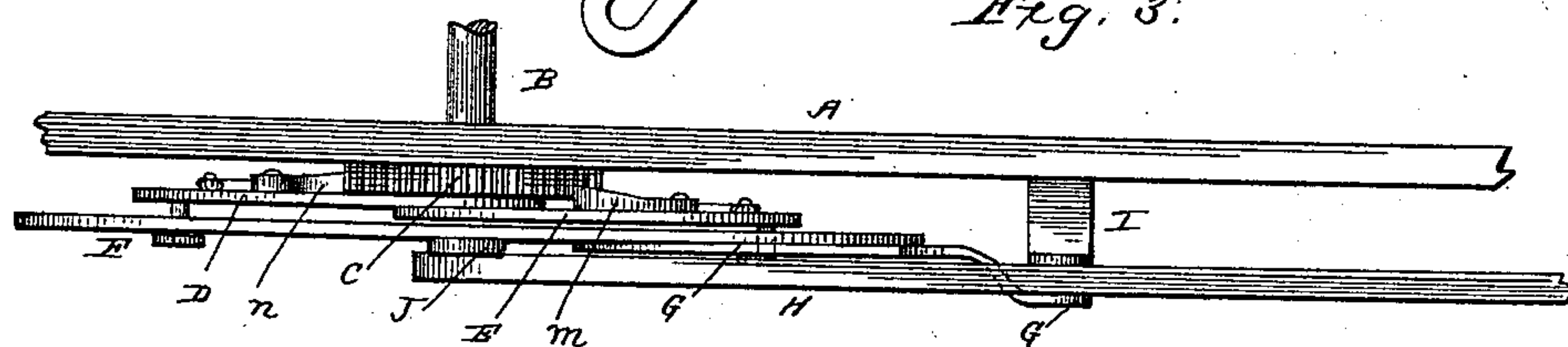
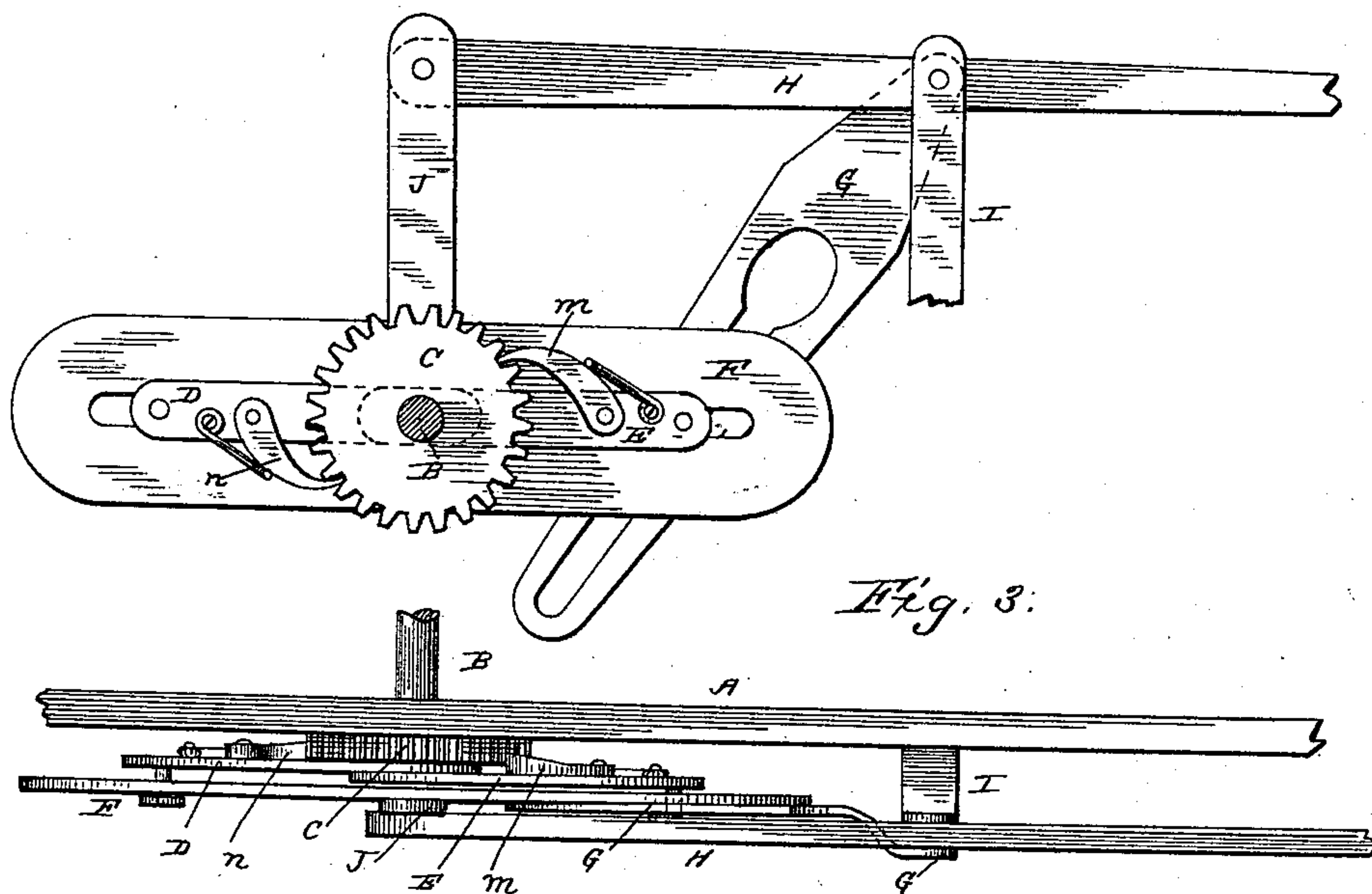
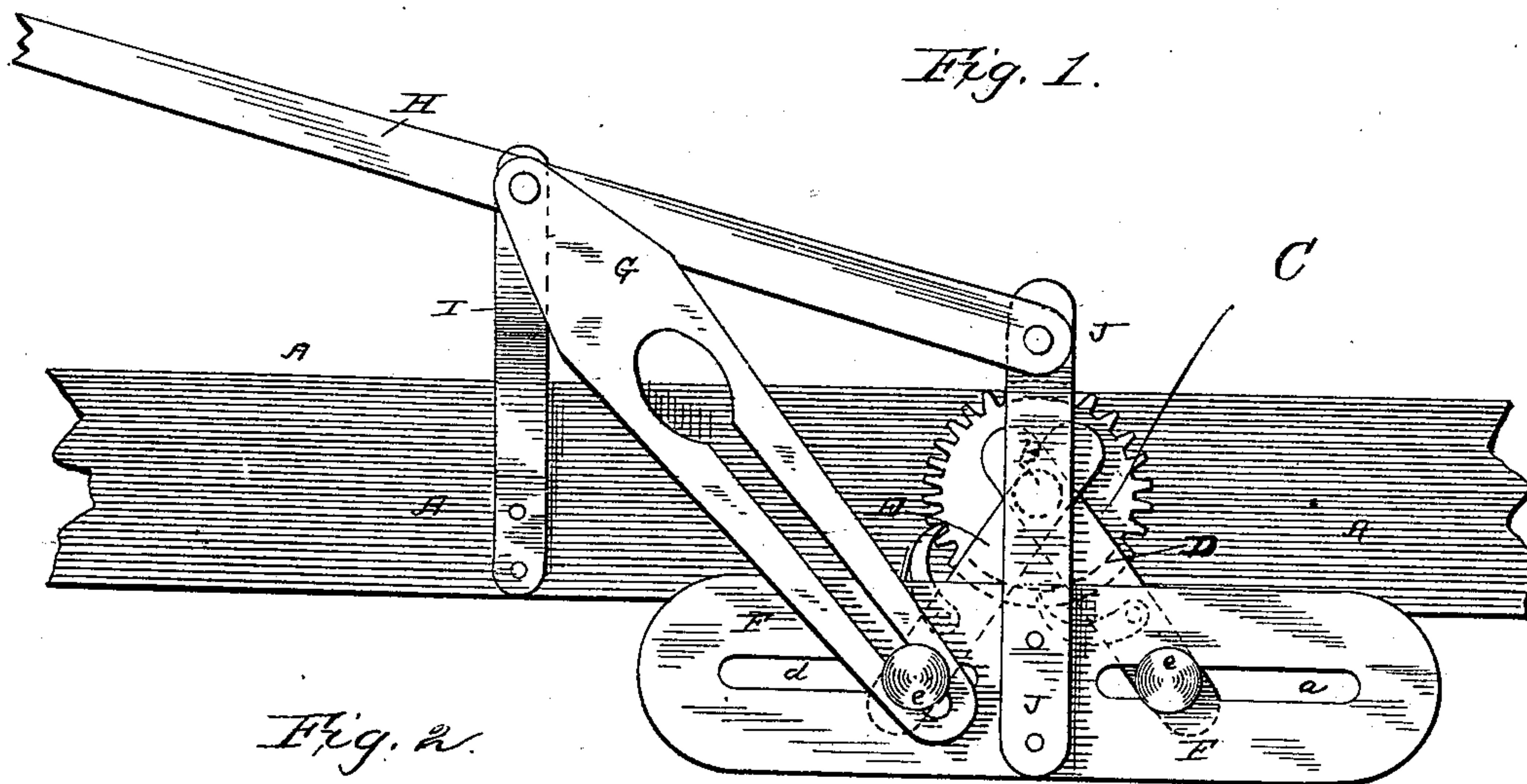


(No Model.)

F. M. NIXON.
MECHANICAL MOVEMENT.

No. 335,531.

Patented Feb. 2, 1886.



WITNESSES

Chas. H. Davis
Wm. H. Gass.

INVENTOR

F. M. Nixon

By *E. M. Alexander*
his Attorney

UNITED STATES PATENT OFFICE.

FRANCIS M. NIXON, OF LENA, ILLINOIS.

MECHANICAL MOVEMENT.

SPECIFICATION forming part of Letters Patent No. 335,531, dated February 2, 1886.

Application filed July 2, 1885. Serial No. 170,551. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS M. NIXON, a citizen of the United States, residing at Lena, in the county of Stephenson and State of Illinois, have invented certain new and useful Improvements in Mechanical Movements, of which the following is a specification, reference being had therein to the accompanying drawings.

10 My invention relates to mechanical movements, and has for its object to convert reciprocating into rotary motion in such manner that it will be simple and effective.

15 Among other things which I propose to apply this invention to are trucks or vehicles for carrying reels for winding wire.

20 In the accompanying drawings, making part of this specification, Figures 1 and 2 represent side views, Fig. 2 being divested of the frame shown in Fig. 1, to more clearly illustrate the working of other parts. Fig. 3 is a plan view.

25 In the figures, A represents the frame to which the working parts are attached. In this frame is secured a shaft, B, upon which is firmly secured a gear or ratchet wheel, C.

30 D and E represent two levers, the inner ends of which fit loosely over the shaft B, close to the ratchet wheel, the ends of said levers being perforated for that purpose.

35 F represents a plate, which is provided with two slots, *a* and *d*. The outer ends of the levers D E are connected to the plate F by means of headed bolts which pass through the slots *a* and *d* and are then riveted to the levers.

40 J represents a bar, which is bolted at one end to the plate F at its center and at its other end to the inner end of a lever, H. The lever H has its fulcrum in a standard, I, which is bolted to the frame.

G represents a slotted bar, the upper end of which is pivoted at the fulcrum-point and to the upright of lever H. The headed bolt

which passes through slot *d* of plate F also passes through the slot in bar G, and thus the plate F and bar G are connected together.

Upon and secured to the levers D and E are two pawls, one upon the outer end of each. These pawls are held in place by springs in the usual manner and engage the teeth of the ratchet-wheel.

In operating this device I first bear down the outer end of lever H, (supposing it to be up.) This through connecting-bar J, raises the plate F. This, by means of its slots and the headed pins, carries the levers D E from an angular position, as seen in Fig. 1, to a position in line with each other. By this movement one of the pawls carries the ratchet-wheel C forward. By lifting the outer end of the lever H the two levers D and E are raised again and the pawl engages the ratchet-wheel and carries it forward. Thus with each reciprocation of the outer end of the lever H the wheel and its shaft are rotated. The slotted bar G acts as a guide for the plate F, as also for the lower end of lever D.

When this machine is used for winding wire, the reel is secured upon the shaft B and rotates with it.

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

The combination of a frame, a shaft having bearing in the same, a ratchet-wheel, two levers carrying pawls, a slotted plate connected to the levers, a guide for the plate, a connecting-bar, and an actuating-lever, all substantially as and for the purpose set forth.

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

FRANCIS M. NIXON.

Witnesses:

H. M. DODDS,
SAML. J. DODDS.