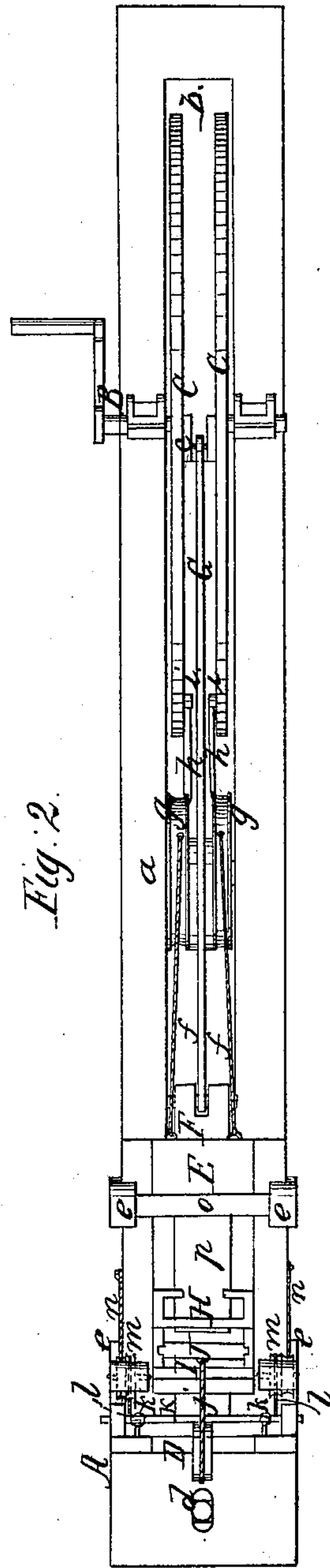
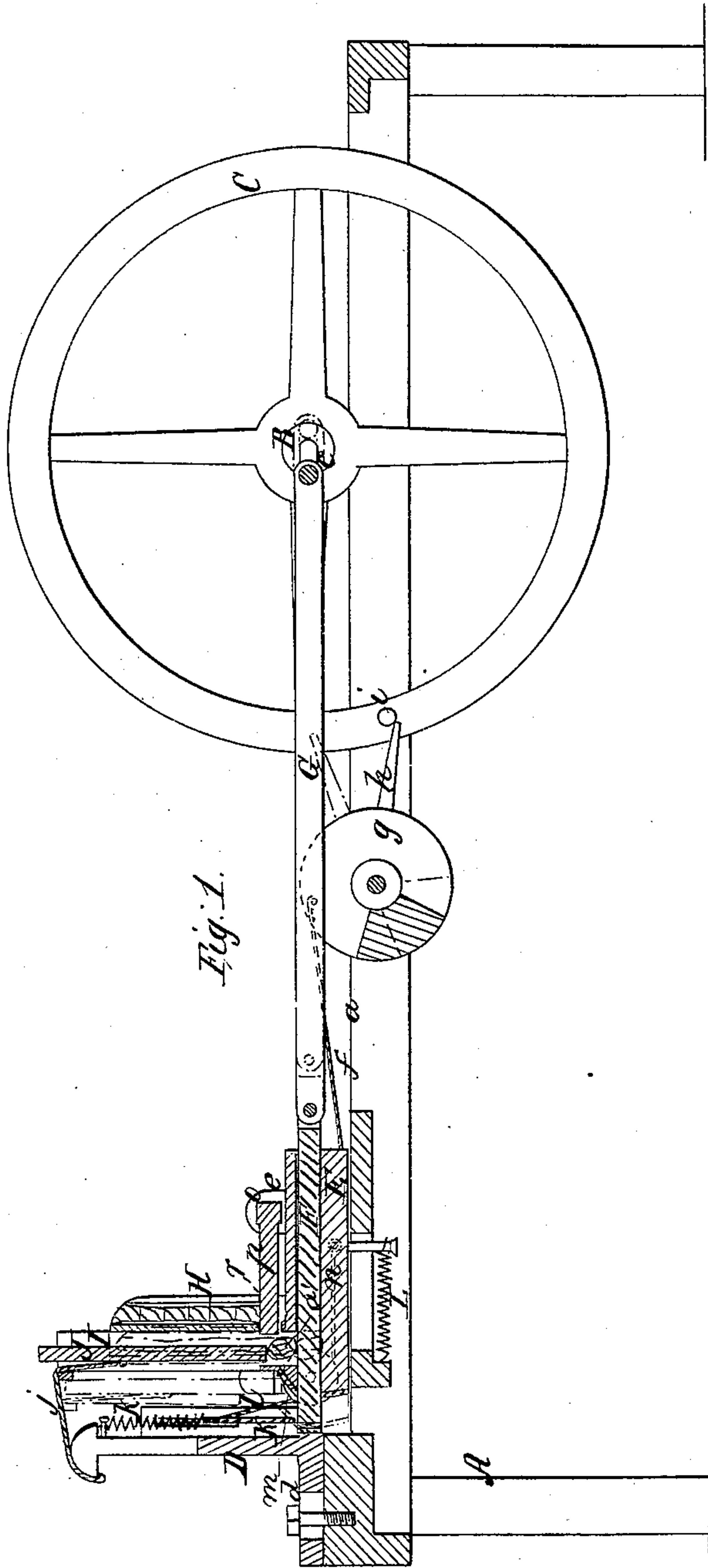


G. King,
Tobacco Press,
No 13,061, *Patented June 12, 1855.*



UNITED STATES PATENT OFFICE.

GEO. KING, OF FARMVILLE, VIRGINIA.

IMPROVEMENT IN PRESSING TOBACCO IN PLUGS.

Specification forming part of Letters Patent No. 13,061, dated June 12, 1855.

To all whom it may concern:

Be it known that I, GEORGE KING, of Farmville, in the county of Prince Edward and State of Virginia, have invented a new and Improved Machine for Pressing Tobacco in the Form of Plugs; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a longitudinal vertical section of my improved machine. Fig. 2 is a plan or top view of the same.

Similar letters of reference indicate corresponding parts in the two figures.

The nature of my invention consists in the peculiar construction of the machine, as will be hereinafter shown, whereby tobacco may be pressed in the form of plugs of the requisite size and with great rapidity.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents the frame of the machine, constructed of either iron or wood, and so as to be firm and prevent any vibration or tremor during the operation of the machine. The frame is merely a narrow platform, *a*, supported by legs, and this platform has an opening, *b*, through it, running about two-thirds its length or more.

B is a transverse shaft working in suitable bearings on the platform *a*, and on this shaft there is hung two wheels, C C, at such a distance apart as to allow a crank, *c*, on the shaft B to be between them. (See Fig. 2.) The wheels are of equal size and fit in the opening *b* in the platform *a*.

At one end of the platform *a* there is secured a vertical plate or head, D, by a bolt, *d*. Said plate or head may be moved nearer to or farther from the wheels C, and secured at the desired point by the bolt above mentioned. The width of the plate or head is equal to that of the platform *a*, and is constructed of metal.

Directly in front of the plate or head D there is a sliding box, E, which works between suitable guides, *e*, attached to the platform *a*. The outer end of this box has cords *f f*, attached to it, said cords being also attached to pulleys *g g*, which are hung on the same axis directly in front of the wheels C C. The pulleys *g* are provided each with a pin, *h*, and the rims of the

wheels C are also each provided with a pin, *i*, which act against the pins *h* of the pulleys, as will be hereinafter shown.

Within the box E a plunger, F, works, said plunger being attached to the end of a rod, G, which is connected to the crank *c*, the connecting-rod G working between the wheels C and pulleys *g*.

To the upper surface of the box E there is secured a grooved box or hopper, H, and directly behind the box or hopper there is a box, I, having a slide, J, within it, said slide J having a cord, *j*, attached to it, which cord is also attached to the upper part of the plate or head D.

On the inner side of the plate or head D there works in suitable grooves or guides a plate, K, the upper end of which is connected by spiral springs *k k* to the upper part of the plate or head D. The upper end of the plate K has cords *l l* attached to it, which cords are also attached to pulleys *m m*, connected with the platform *a*. The pulleys *m m* have also cords *n n* attached to them—one to each—which cords are also attached to the sliding box E.

Directly above the box E, and attached to a cross-piece, *o*, connected with the frame, there is attached a horizontal bar, *p*, which works through a slot, *r*, in the lower part of the hopper H.

L is a spiral spring attached to the under side of the sliding box E and platform *a*, as shown in Fig. 1.

Operation: The tobacco is placed in the hopper H in the form of rolls, and one over the other, as shown in Fig. 1. Motion is then given the shaft B in any proper manner, and as the wheels C C rotate the pins *i i* on their rims strike against the pins *h* on the pulleys *g g*, and said pulleys are turned a certain distance, and the sliding box E is drawn toward the wheels C, in consequence of their attachment to the pulleys *g g* by the cords *f*, and as said box is drawn toward the wheels C the bar *p* forces the lower roll of tobacco from the hopper H into the box I, the slide J being drawn upward as the box E is moved forward, in consequence of its attachment to the cord *j*; and when the pins *i* on the wheels C pass the pins *h* the box E slides back to its original position by means of the spring L, and the slide J falls by its own gravity and forces the roll of tobacco down upon the upper surface of the

plunger F. (See Fig. 1, *a'* representing the roll.) The plunger F now moves toward the wheels C, in consequence of its attachment to the connecting-rod G, and the roll *a'* falls within the box E directly in front of the plunger, and by the return movement of the plunger is pressed against the inner surface of the plate or head D, the roll being still within the box E. The sliding box is now again moved toward the wheels C, the pins *i* coming in contact with the pins *h*, and the cords *nn* turn the pulleys *m m*, and the cords *ll*, which are attached to said pulleys, draw down the plate K, and the plug formed by the pressure to which it was subjected is forced downward from the machine.

The above machine is extremely simple, may be manufactured at a small cost, and is not liable to get out of repair. It will compress from twelve hundred to twenty-four hundred rolls per hour by hand-labor.

All the parts of the machine would be constructed of metal. At least, that would be the preferable material. Certain parts, however, might be of wood.

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

1. The box E and plunger F, when arranged and operated substantially as herein shown, so that both the box and plunger have a reciprocating motion for the purpose of allowing the tobacco to be fed into the box and also compressed therein, as described.

2. The combination of the box E and plunger F with the hopper H and slide J, for the purpose as herein shown and described.

GEORGE KING.

Witnesses:

GEO. O. SCOTT,
G. C. BROWNE.