

No. 711,222.

Patented Oct. 14, 1902.

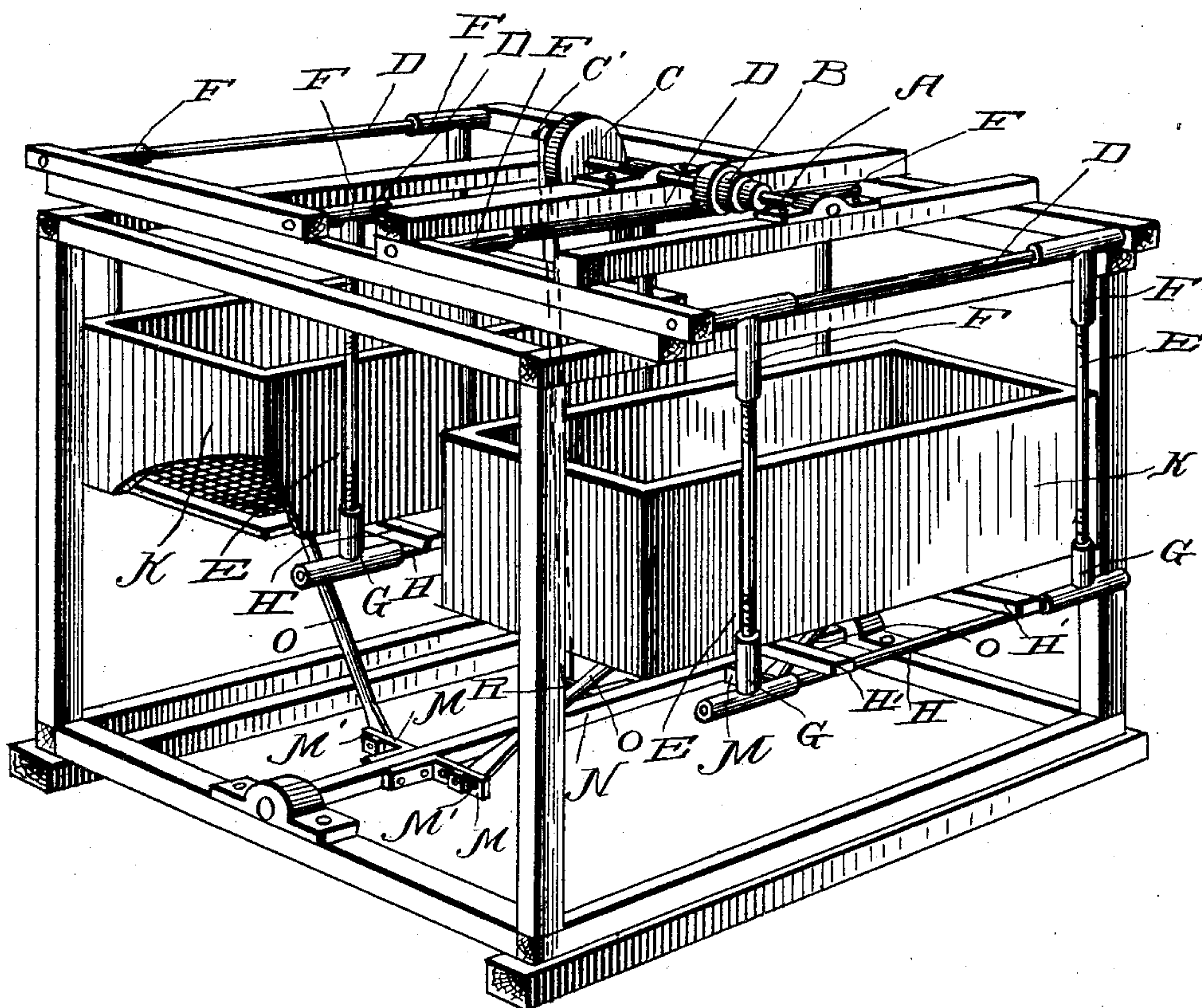
J. C. MAUN.
BOLTING MACHINE.

(Application filed May 31, 1902.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.



Witnesses

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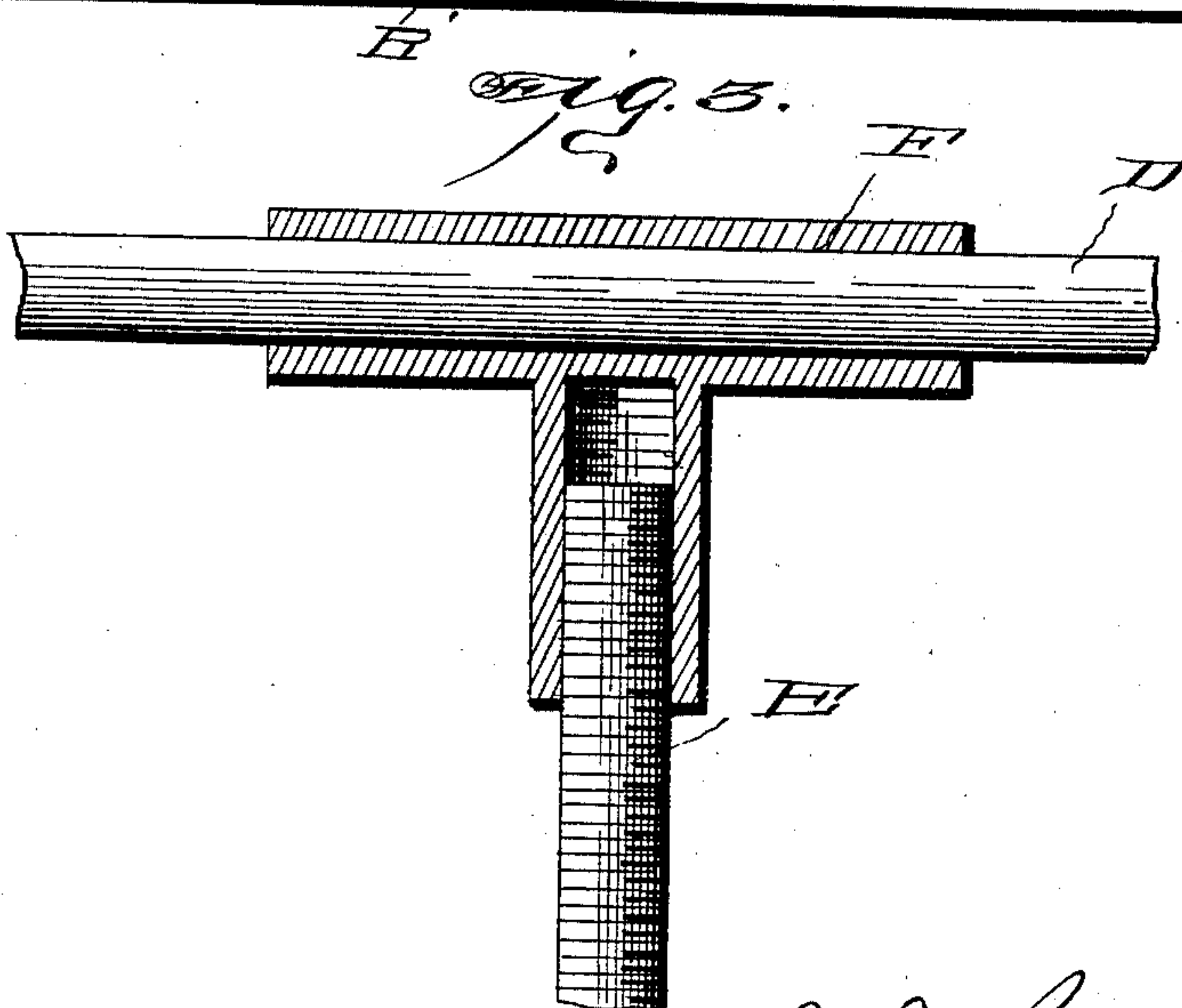
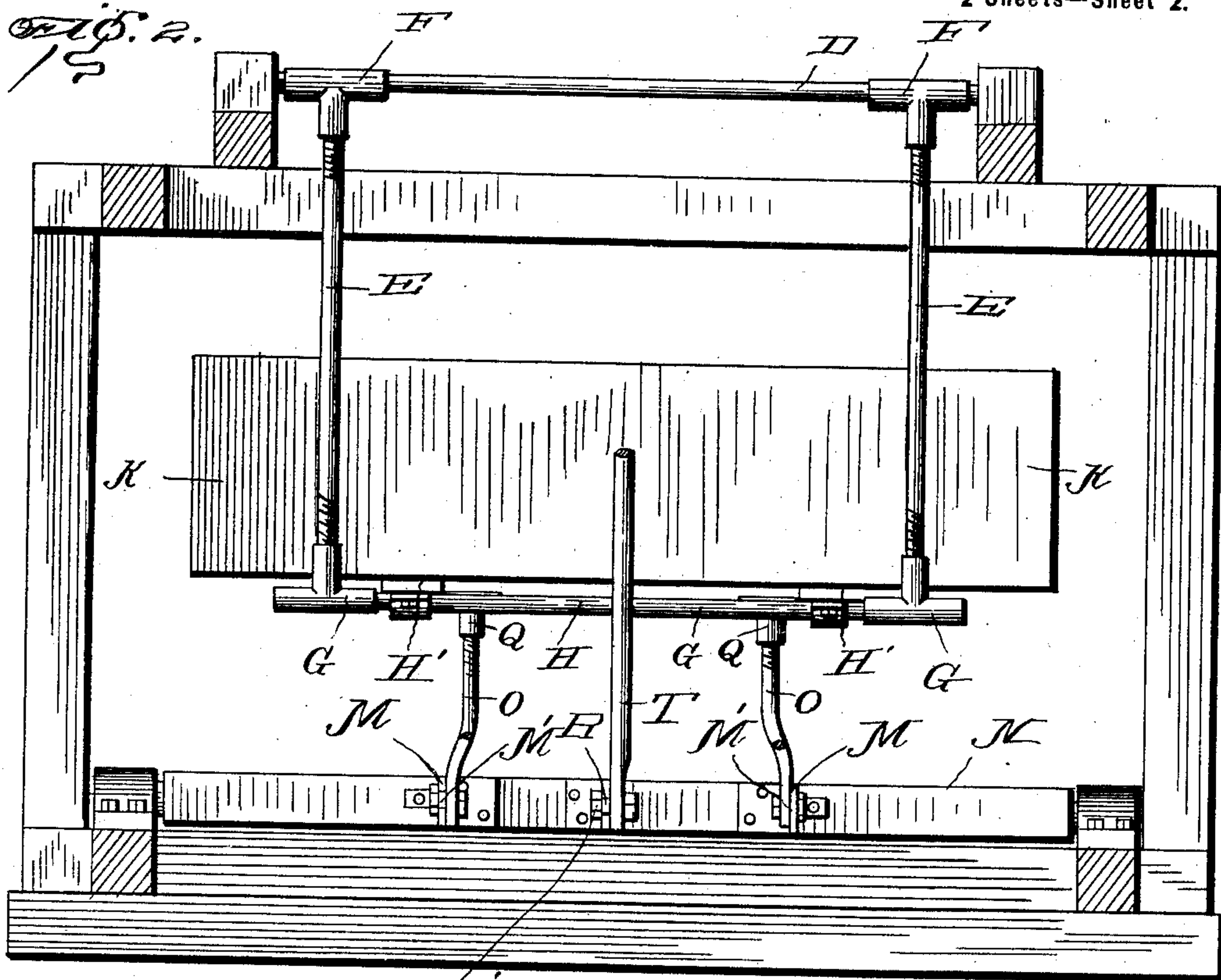
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UNITED STATES PATENT OFFICE.

JOHN C. MAUN, OF BIGCOVE TANNERY, PENNSYLVANIA.

BOLTING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 711,222, dated October 14, 1902.

Application filed May 31, 1902. Serial No. 109,720. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. MAUN, a citizen of the United States, residing at Bigcove Tannery, in the county of Fulton and State of Pennsylvania, have invented certain new and useful Improvements in Bolting-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 new and useful improvements in flour-milling machines, and especially to a laterally-movable bolting-machine for flour-making purposes designed for bolting, scalping, and dressing flour, and comprises a plurality of suspended sieves, which are adapted to counterbalance each other as they swing laterally, means being provided to adjust the throw of each sieve and regulate the swinging movements thereof.

The invention consists, further, in various details of construction and combinations of parts, as will be hereinafter fully described, and then specifically defined in the appended claims.

My invention is clearly illustrated in the accompanying drawings, in which similar letters of reference indicate like parts in the views, in which—

Figure 1 is a perspective view of my improved laterally-movable bolting-machine. Fig. 2 is a cross-sectional view vertically through the machine, showing parts in side elevation. Fig. 3 is a detail view of the means for adjusting the rods for regulating the swinging movement of the sieves.

Reference now being had to the details of the drawings by letter, A designates a shaft, which is provided, preferably, with a cone-pulley B, and to said shaft is keyed a wheel C, having an eccentrically-mounted pin C' mounted thereon. Said shaft may be mounted in any suitable frame or may be suspended by hangers from the ceiling of a room.

D designates shafts which are horizontally disposed and held in suitable bearings, and suspended from said shafts are rods E, having threaded ends which are adapted to fit

the interior threads in the T-shaped collars F, secured to said shafts. The lower ends of said rods E are mounted in threaded T-shaped collars G, in which the shafts H are held. There are two shafts of similar construction mounted as shown and described, and each shaft H has similar connections with a shaft D. These shafts and rods are so mounted as to allow a lateral swinging movement to the seive, as will be readily understood. In the drawings I have illustrated two sieves similarly mounted and adapted to swing in opposite directions in unison, one sieve being adapted to counterbalance the other, thus dispensing with the balancing mechanism provided for this purpose. Intermediate said sieves and below the same is mounted a shaft N, made of any suitable material, and mounted on said shaft are the arms M, which are keyed or otherwise fastened to the shaft and have slotted ends M'. There are two of these arms, as shown, positioned at any suitable locations, preferably at the central or middle portion of the shaft N.

O O designate rods, each having threaded ends which are adapted to engage the interior threads of the T-shaped collars Q, which are mounted on the shafts H, and the other ends are adjustably mounted in the slotted arms M. Intermediate said arms M is an arm R, longitudinally slotted, and adjustably held in said slot is a screw R', to which is pivoted one end of the pitman or rod T, the other end of which is pivotally connected to the eccentric-pin C', carried by the wheel C.

The operation of my machine, which consists in imparting a lateral movement to the sieve, is as follows: Power being applied to the shaft A, wheel C is caused to rotate, and by means of the pitman or rod connections between the same and lever N the latter is caused to rock in its bearings, and by reason of the connections between the slotted arms of said shaft and the swinging sieves the latter are caused to swing in opposite directions as the shaft N rocks. By means of the adjusting-rods the swinging movement of each sieve may be regulated, whereby the throw of the sieve may be increased or diminished, accordingly as the rods are screwed away from or toward the shafts carrying the T-shaped collars on which the rods are mounted.

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

1. A bolting-machine comprising a frame, 5 swinging arms mounted thereon, sieves suspended from said arms, a rock-shaft journaled in the frame and having arms projecting therefrom, adjustable connections between each of said arms and the sieve, a 10 power-shaft, a crank-wheel, a rod having pivotal connections between same and said rock-shaft, as set forth.

2. A bolting-machine comprising the frame, shafts D journaled therein, T-collars on said

shafts, shafts H, T-collars thereon, threaded 15 rods connecting said T-collars on shafts D and H, a rock-shaft, slotted arms thereon, a power-shaft with a crank-wheel keyed thereto, a pitman-rod pivotally connecting said crank-wheel and an arm on the rock-shaft, a screen, 20 and connections between the arms of the rock-shaft and the latter, as set forth.

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

JOHN C. MAUN.

Witnesses:

WM. H. NELSON,
M. R. SHAFFNER.