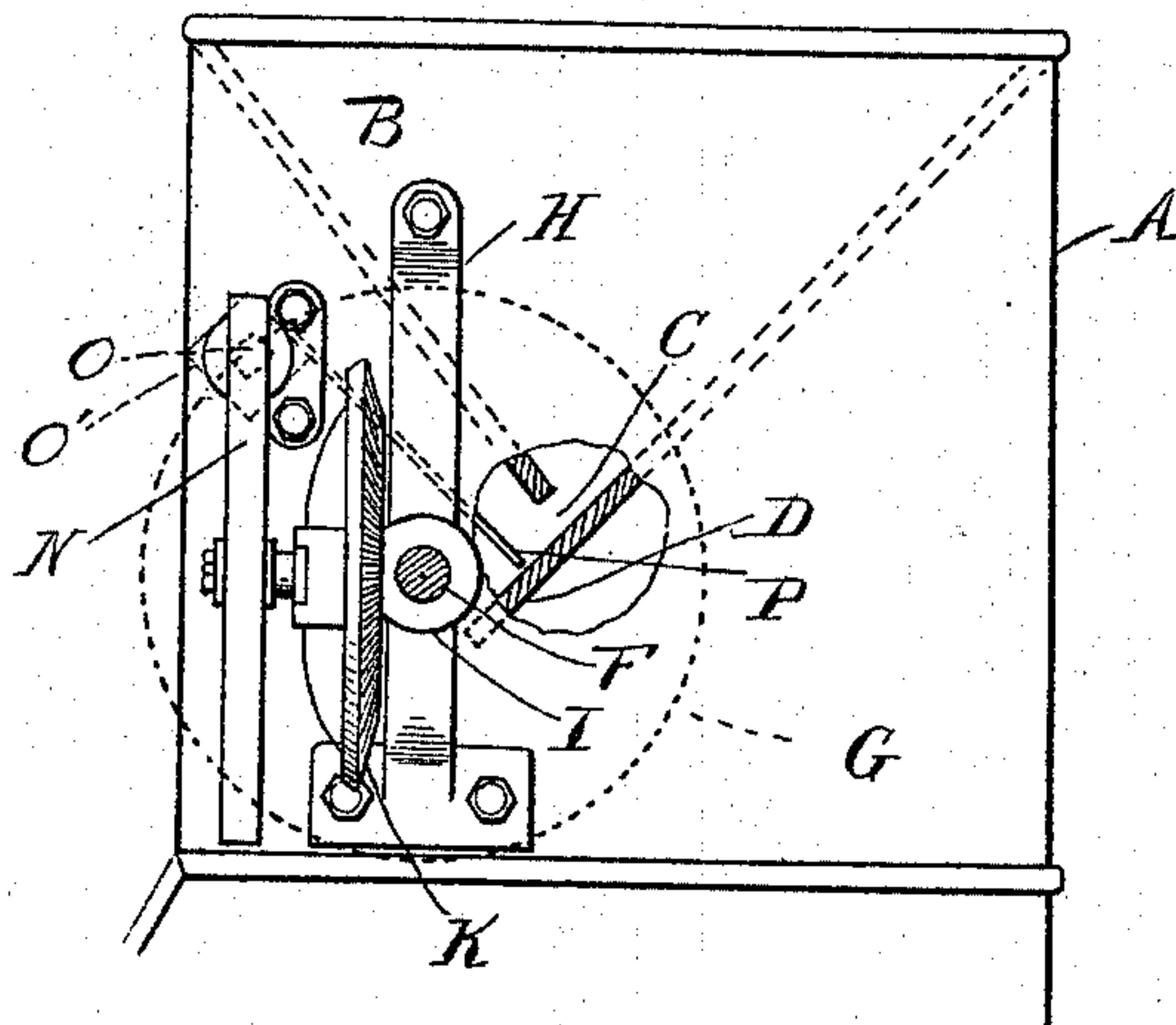
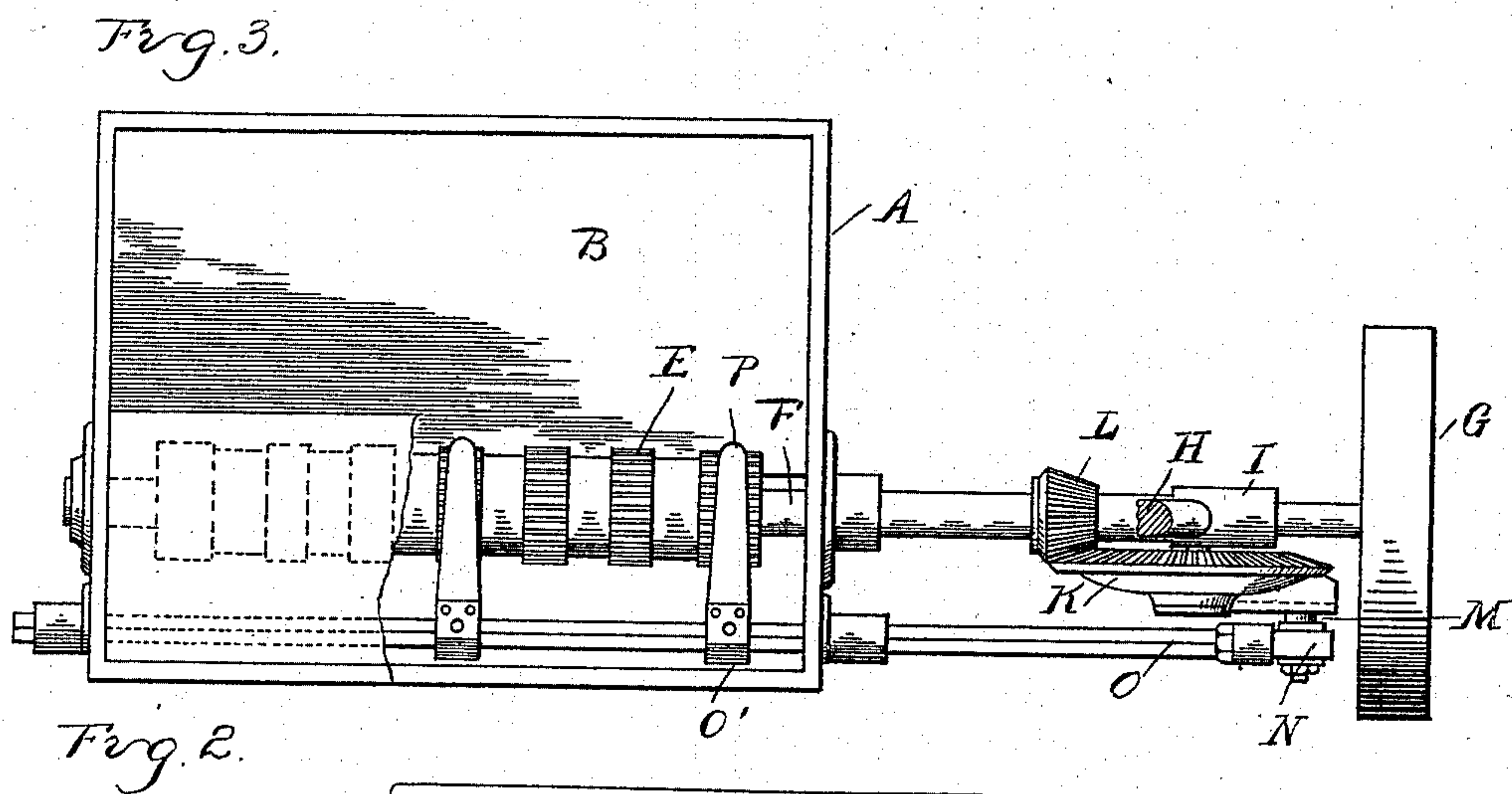
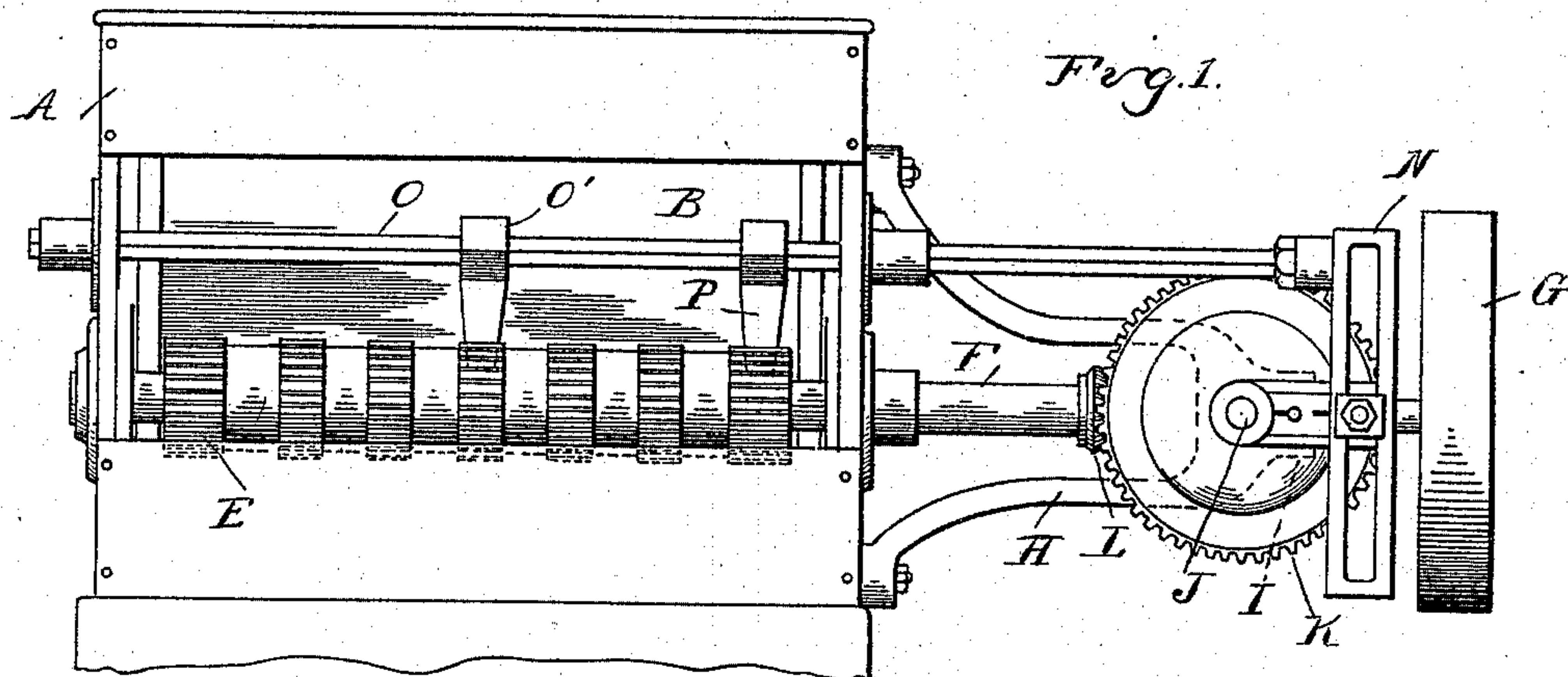


(No Model.)

J. SEIBERTH.
FEED DEVICE FOR ROLLER MILLS.

No. 528,037.

Patented Oct. 23, 1894.



Witnesses
L. J. Whittemore.
A. L. Haby

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UNITED STATES PATENT OFFICE.

JOSEPH SEIBERTH, OF FRANKENMUTH, MICHIGAN.

FEED DEVICE FOR ROLLER-MILLS.

SPECIFICATION forming part of Letters Patent No. 528,037, dated October 23, 1894.

Application filed May 11, 1894. Serial No. 510,861. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH SEIBERTH, a citizen of the United States, residing at Frankenmuth, in the county of Saginaw and State of Michigan, have invented certain new and useful improvements in Feed Devices for Roller-Mills, of which the following is a specification, reference being had therein to the accompanying drawings.

10 The invention consists in the peculiar construction of the feeding devices for a roller mill combining a hopper and an agitator, and further in the peculiar construction of the agitator comprising a reciprocating bar, having fingers, the ends of which project into the material as it flows from the hopper to the feed roll, thereby not only insuring an even feeding of the material, but thoroughly cleaning it from strings and other débris, which
15 20 may be present in the material to be ground, and further in the peculiar construction, arrangement and combination of the various parts, all as more fully hereinafter described.

In the drawings, Figure 1 is a side elevation of my improved device. Fig. 2 is an end elevation thereof and Fig. 3 is a top plan view.

A is the supporting frame or casing and B is a hopper therein.

30 C is the discharge spout at the lower end of the hopper and D is an apron, preferably formed by an extension of one side of the hopper bottom which forms a feed apron below the discharge spout and in proximity to the feed roll E. This feed roll is secured to
35 a shaft F journaled in stationary bearings in the casing of the machine and is of any known and usual construction. At its upper end the shaft F is provided with a drive pulley G, by means of which it may be driven from
40 any suitable source of power.

H is a bracket secured on the end of the casing and having a tubular sleeve I at its outer end, in which the shaft F is journaled. On this sleeve is a stub shaft J upon which
45 is journaled the beveled gear wheel K which meshes with a bevel pinion L on the shaft F,

so that motion is imparted to the bevel wheel K when the shaft F is driven. Upon the bevel wheel K is a crank pin or roller wrist M, which engages in a vertical slotted link N 50 which is secured at one end to the agitator rod O. This agitator rod is slidingly supported in bearings in the frame of the machine and is provided at suitable points with blocks O' to which the agitator fingers P are secured. 55 These fingers extend at substantially right angles to the apron D and have their ends in such close proximity thereto that as the material is fed from the spout over this apron to the feed wheel, the fingers will be reciprocated through the material and thoroughly cleanse it from strings and other débris which may be therein. At the same time they will check the flow of the material over the apron and insure an even feed from the hopper to 65 the feed roll.

Any other actuating devices may be employed for reciprocating the fingers and I do not desire to be limited to the particular actuating mechanism shown, which however I 70 deem the most satisfactory.

What I claim as my invention is—

The combination of the hopper, a feed apron leading from the discharge end thereon, a driven feed roll in proximity to said apron, 75 the reciprocating bar and fingers arranged as described, a drive mechanism for said bar comprising the roller L on the pinion shaft, a bracket on the machine casing having a sleeve at its end through which the roller 80 shaft passes, the gear wheel K on the sleeve meshing with the pinion L and having a roller wrist thereon, and a link N in which said roller wrist engages connected to the reciprocating bar, substantially as described. 85

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

JOSEPH SEIBERTH.

Witnesses:

THEO. FISHER,
JOHN M. HUBINGER, Jr.