

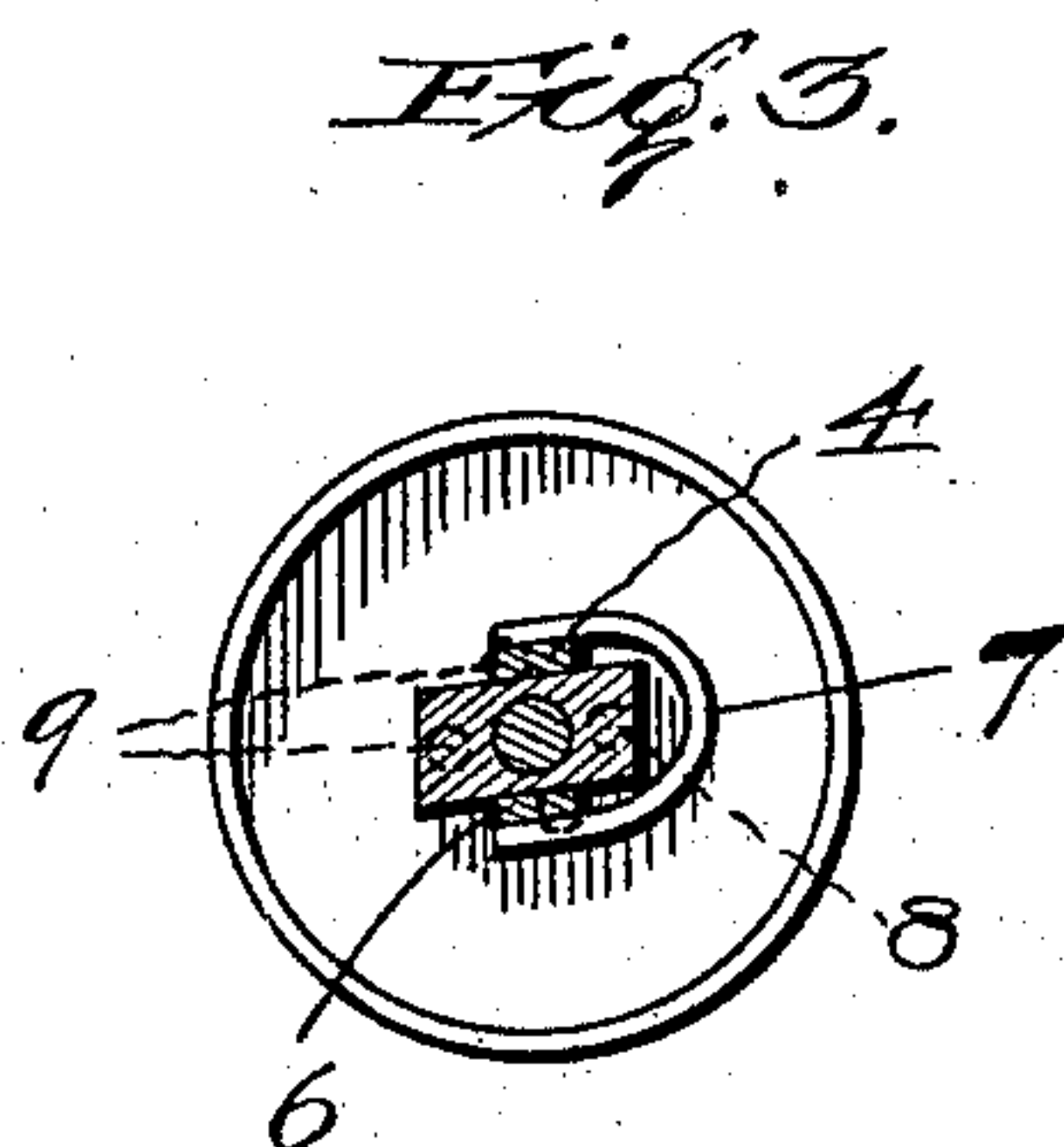
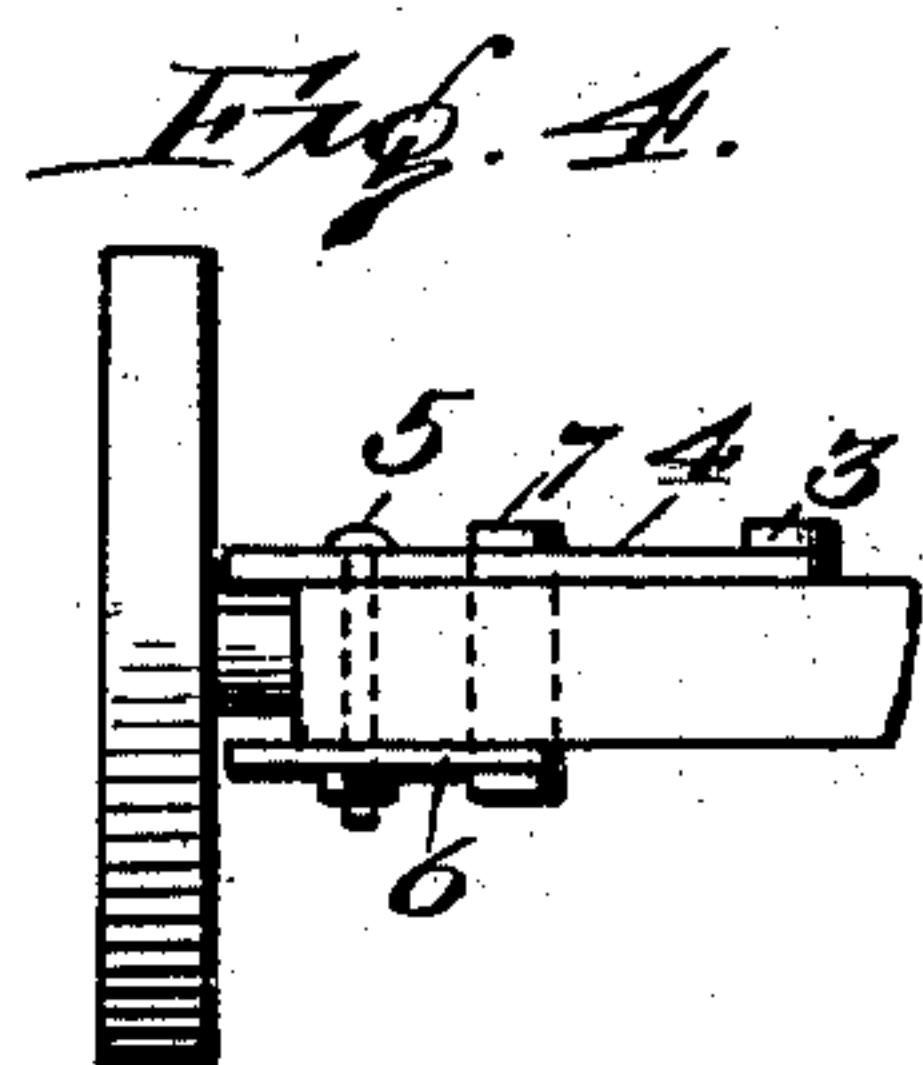
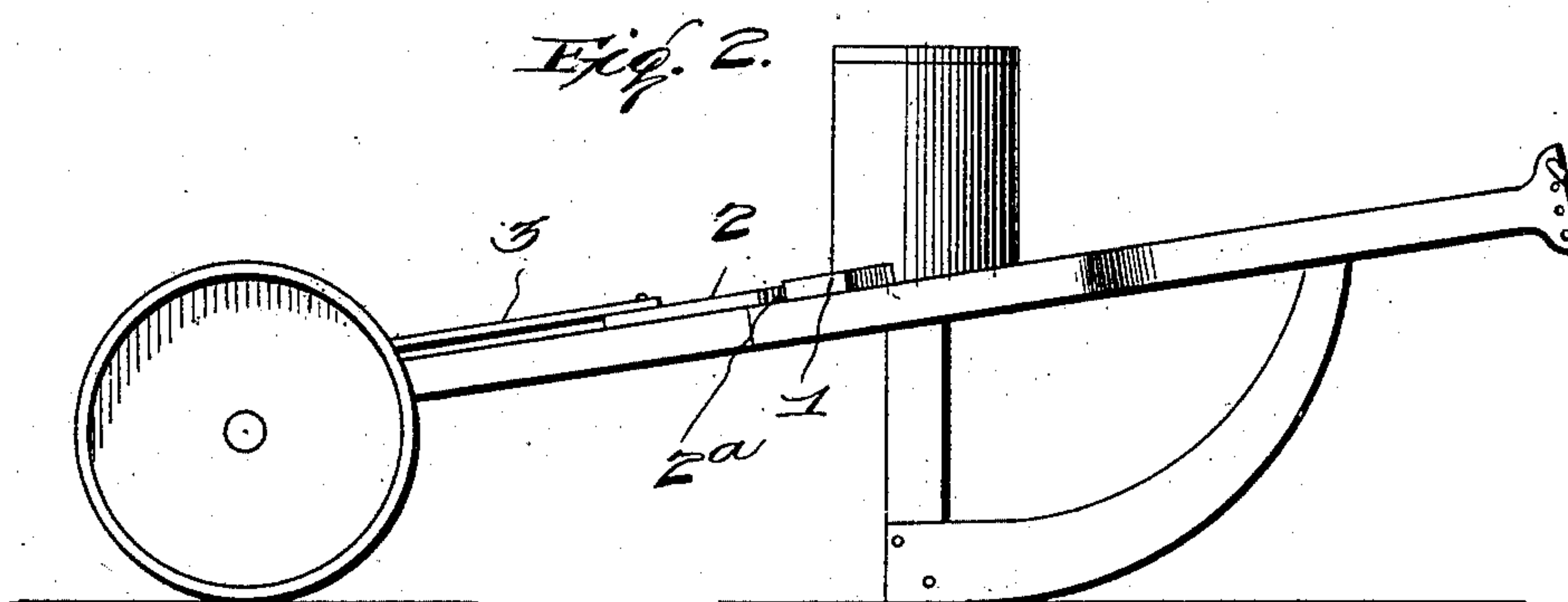
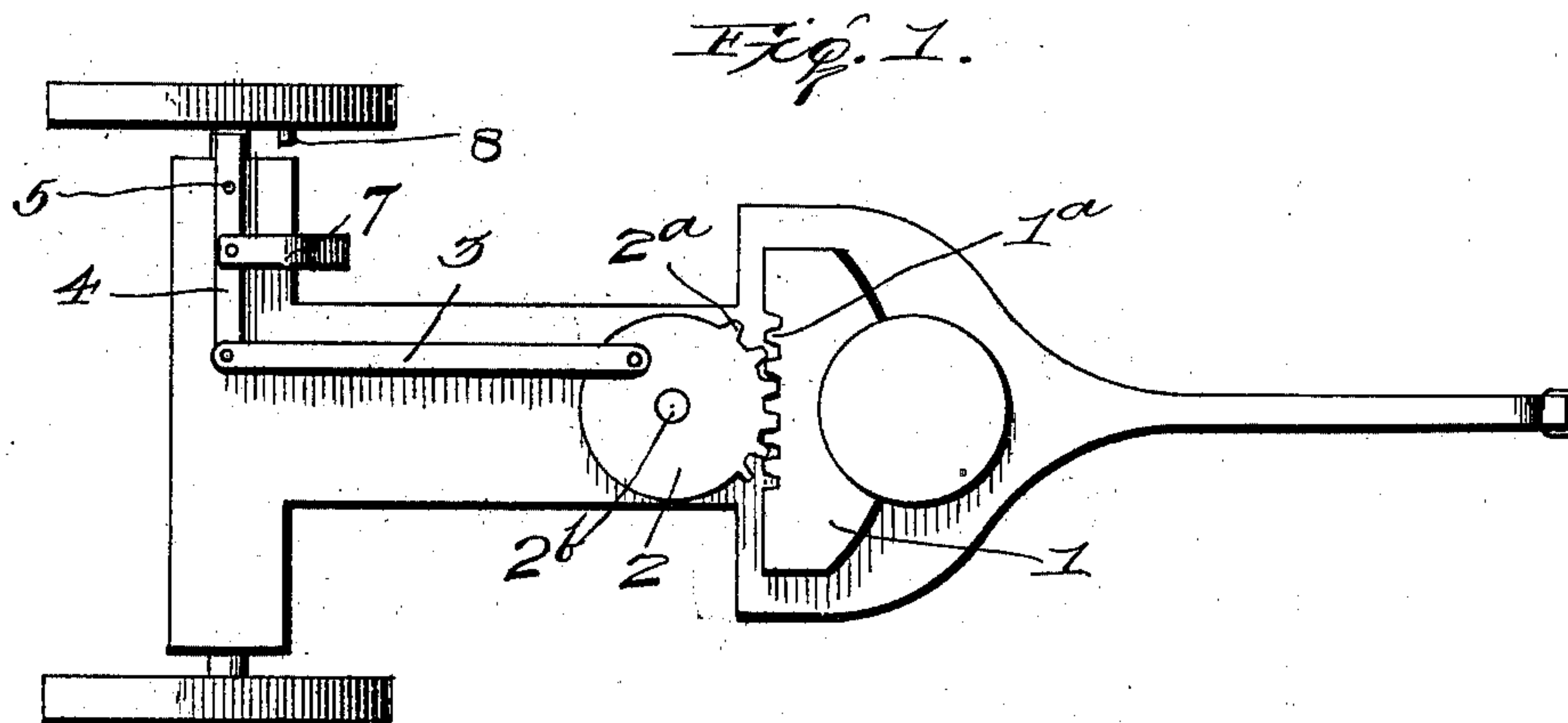
No. 752,788.

PATENTED FEB. 23, 1904.

S. MEINERS.  
CORN PLANTER.

APPLICATION FILED OCT. 3, 1903.

NO MODEL.



*WITNESSES:*

J. L. Moschauer

E. B. Patchiffs

*INVENTOR*

Samuel Meiners

By

BY  
Frederick Partridge

*Attorneys*

# UNITED STATES PATENT OFFICE.

SAMUEL MEINERS, OF UNION CITY, IOWA.

## CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 752,788, dated February 23, 1904.

Application filed October 3, 1903. Serial No. 175,628. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL MEINERS, a citizen of the United States, residing at Union City, in the county of Allamakee and State of Iowa, have invented new and useful Improvements in Corn-Planters, of which the following is a specification.

My invention relates to certain improvements in corn-planters; and it has for its object, among other things, to dispense with the use of the ordinary "check-row" wire-dropping contrivance or device heretofore employed, and consequently the additional manual assistance or help required in the operation of the same. Said invention is also characterized by simplicity in construction and operation.

The nature of said invention consists of the combination of parts, including their construction and arrangement, substantially as hereinafter more fully disclosed, and specifically pointed out by the claim.

In the accompanying drawings, illustrating the preferred embodiment of my invention, Figure 1 is a plan view. Fig. 2 is a side elevation. Fig. 3 is a detail view showing more particularly the wheel-pin-actuated device, together with the spring-returning member for said device. Fig. 4 represents a rear elevation of part of the axle, a wheel, and the connected operating-levers.

In the carrying out of my invention I suitably mount or pivot in position upon the corn-planter frame near the corn-dropping slide 1 of each of the corn-boxes a disk 2, having a portion of its periphery provided with teeth 2<sup>a</sup>, adapted to engage or mesh with teeth 1<sup>a</sup>, produced upon said slide in its rear edge for actuating said slide, as in effecting the corn-dropping operation, as will more fully appear presently.

A pitman 3 is pivotally connected at one end to the disk 2, eccentrically to the axis of the latter for actuating the same, the opposite end of said pitman being pivotally connected to one end of the lever 4, said lever having its inner end pivotally connected by a bolt 5, passing vertically through the corn-planter axle.

Upon this same pivot or bolt 5 is journaled a lever or arm 6, arranged upon the under side of

said axle and having one end pivotally connected to a bowed yoke or link 7, in turn pivotally connected to the lever 4 intermediately of the pivotal point of the latter on the axle and its connection with the pitman 3.

The lever 6 has one end arranged in the path of the removable pin 8, inserted in any one of a concentric series of holes 9, produced in one of the corn-planter wheels, to provide for the actuation of said lever at each revolution of said wheel, accordingly actuating the aforesaid parts, whereby will be effected the corn-dropping operation. It will be noted that by the engagement of the pin 8 with the lever 6, as just stated, the link or yoke 7 will restore the several parts to their normal position to permit said lever to be again engaged upon each successive revolution of the wheel carrying said pin or peg. Also it is observed that after the transit of the corn planter or machine across the field and the reversal thereof for return movement the pin or peg can be adjusted to the requisite hole in the wheel, if not at the proper relation with the lever 4, so as to effect engagement with said lever at the starting of the machine, and thus provide for effecting the corn-dropping operation instantaneously, as is obviously desirable.

In the aforesaid combination and arrangement of parts it is noted that the use of all check-row wire-dropping mechanism or contrivances is dispensed with, accordingly obviating additional assistance, as has been heretofore found necessary in machines of the type employing the same.

As the corn-planter is traversed over the ground the disk 2 is given an oscillating motion upon its pin 2<sup>b</sup>, thereby imparting a reciprocating motion to the corn-dropping slide-bar 1. This motion is effected through the medium of the pitman 3, the lever 4, and the lever 6, which levers are respectively pivoted by bolt 5 to the upper and lower sides of the axle 4 and the yoke-link 7. The wheel and pin 8 being in the position shown in Fig. 1 and the planter being propelled forward, the pin will first strike the outwardly-projecting end of the lower lever 6, pushing it backward and its inner end forward and, through the medium of link 7, carrying the inner end of



the upper lever 4 forward, thereby pushing forward the pitman 3 and to that extent turning disk 2. As the wheel continues to revolve the same pin 8 passes around to the top of the axle and strikes the outer end of lever 4, pushing it forward and its inner end backward, thereby drawing the pitman 3 backward and turning disk 2 in the reverse direction. By this movement of lever 4 the lever 6 will be reversed and its inner end pushed forward into position to be again struck by the pin 8 as the wheel revolves. These forward and backward movements of the pitman 3 cause oscillation of the toothed disk 2 and reciprocating movement of the corn-dropping slide-bar 1. It will thus be seen that the levers 4 and 6, pivoted, respectively, to the upper and under sides of the axle, and the connecting-yoke 7 are important elements of my machine. They are simple and effective in operation.

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

In a corn-planter, the combination with a corn-dropping slide-bar and an operating-gear, of a lever pivoted to the upper side of the axle, a pitman connecting the inner end of the lever with said gear, a second lever pivoted to the under side of the axle, a yoke-link connecting said levers and a pin in the driving-wheel adapted to engage with the outer ends of said levers for operating them and imparting an oscillating motion to the operating-gear, substantially as described.

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

SAMUEL MEINERS.

Witnesses:

W. O. BOCK,

J. F. HARRINGTON.