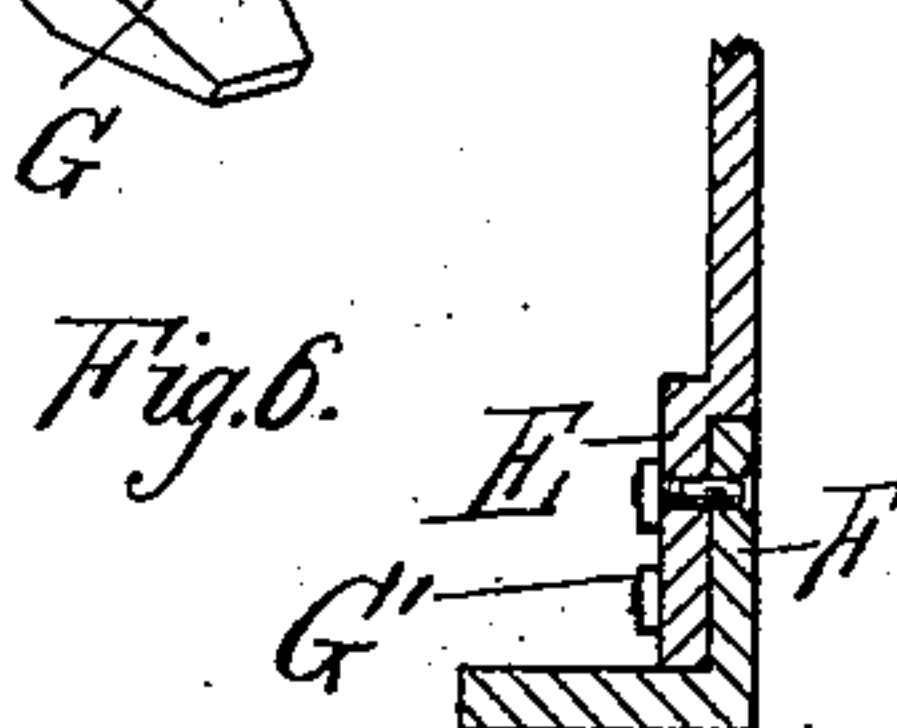
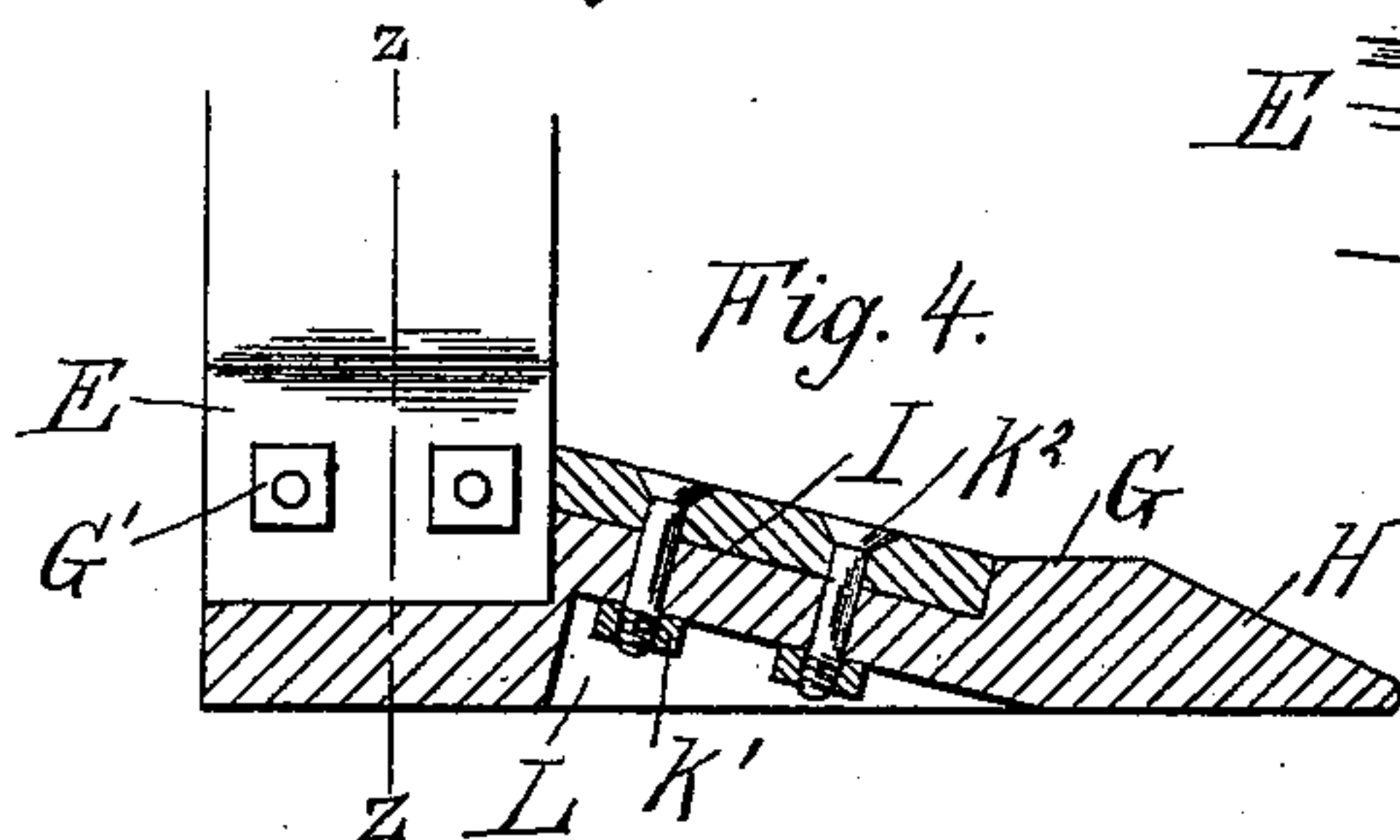
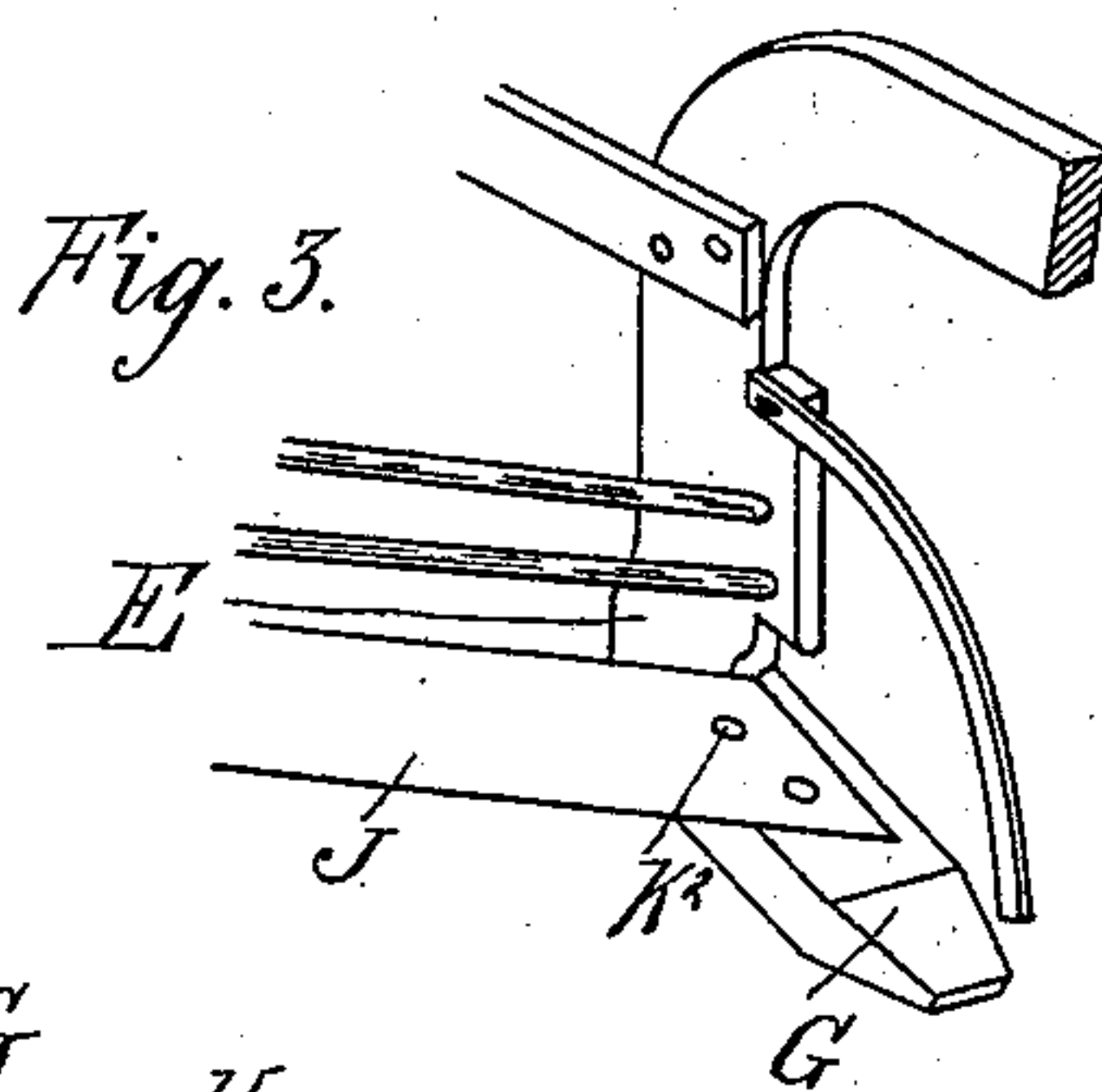
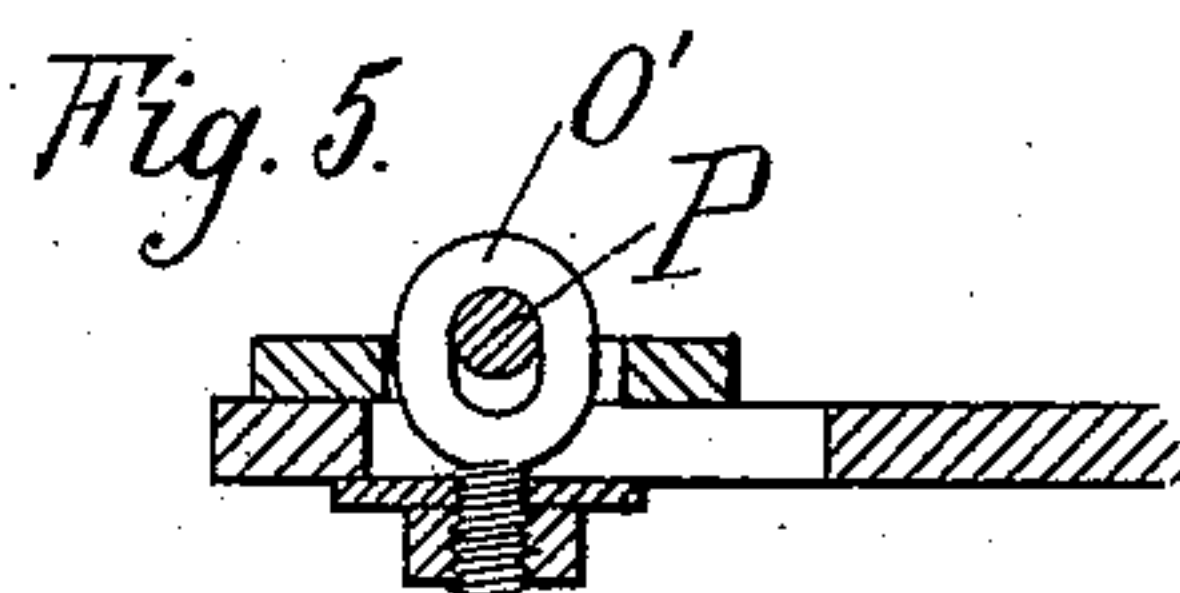
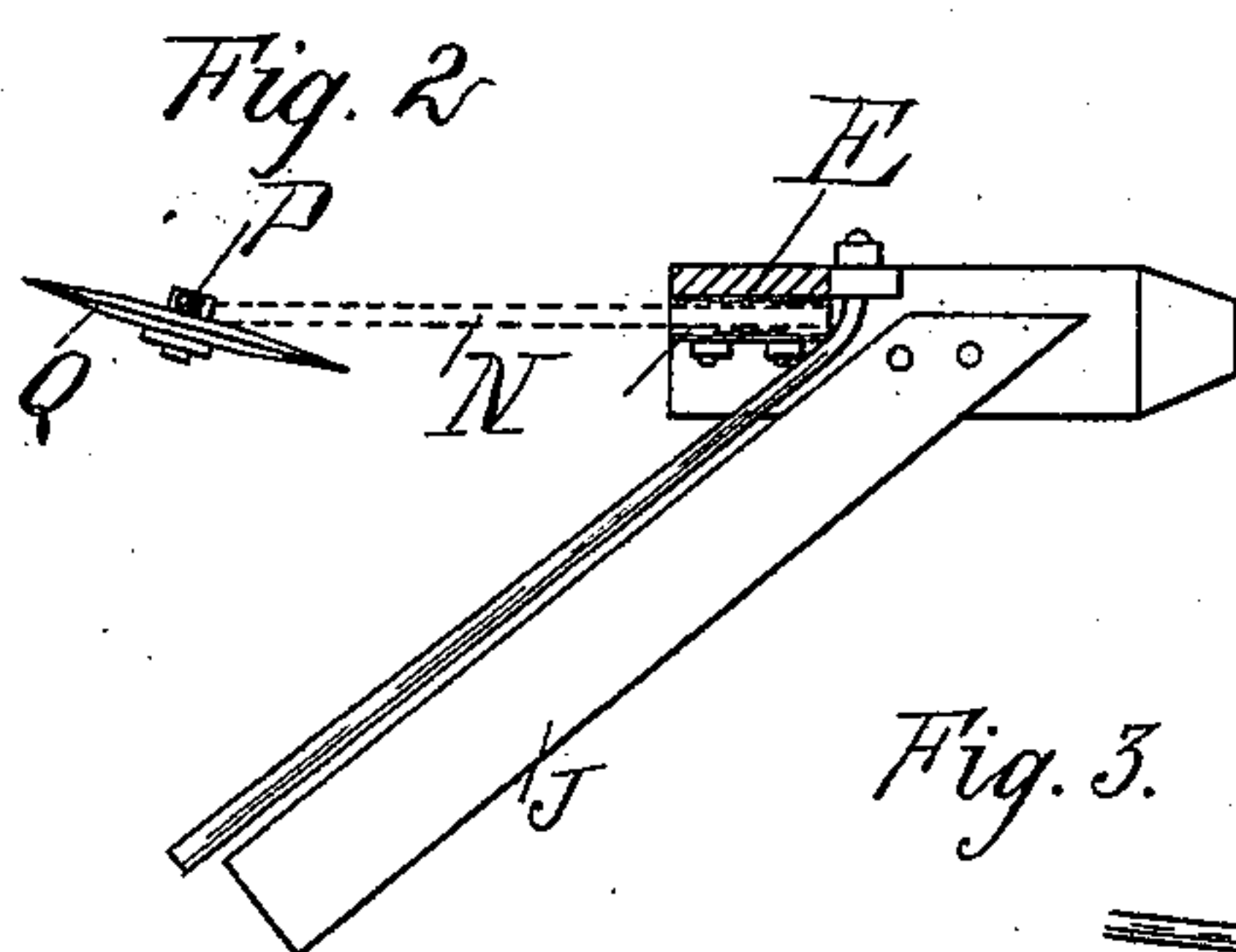
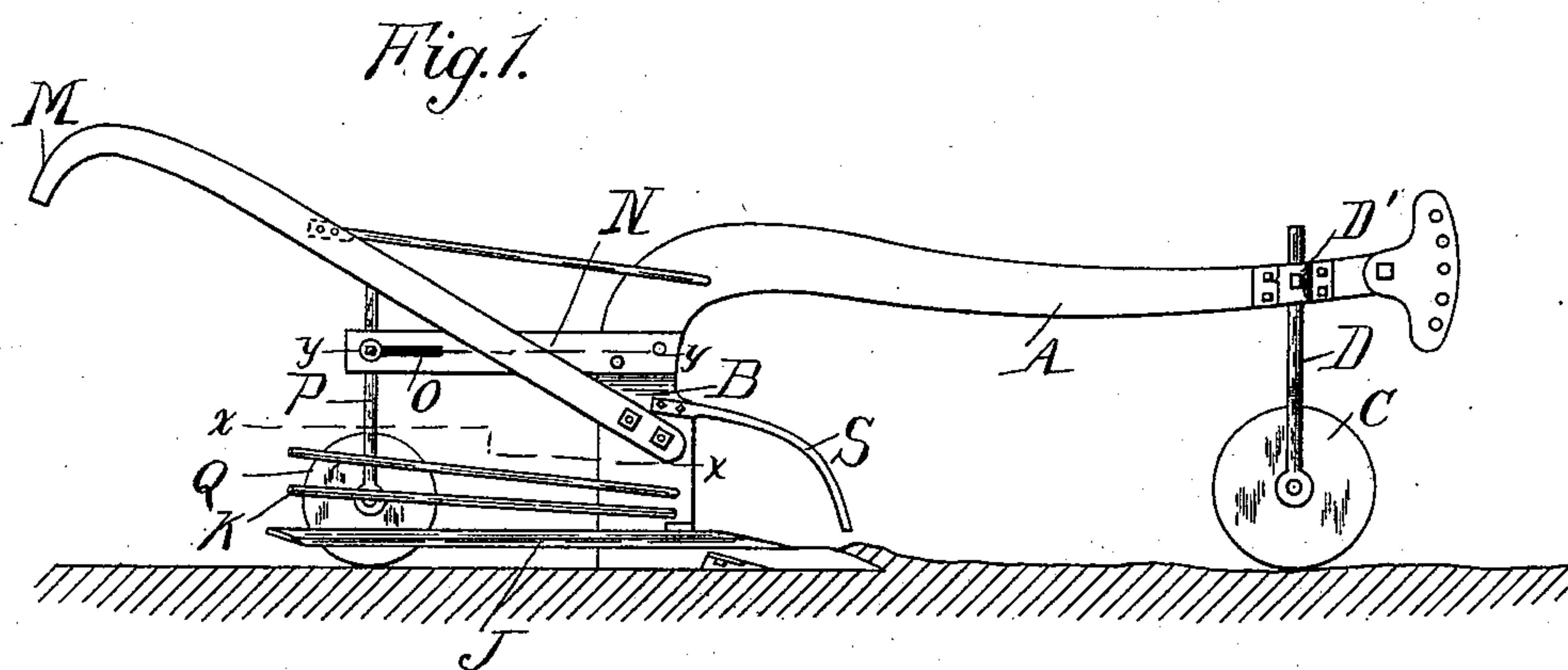


(No Model.)

R. MOORE.  
BEAN HARVESTER.

No. 539,589.

Patented May 21, 1895.



Witnesses:

C. F. Barthel.

L. J. Whittemore

Inventor:

Robert Moore,

By W. S. Sprague & Co.  
Attys.

# UNITED STATES PATENT OFFICE.

ROBERT MOORE, OF NEW LOTHROP, MICHIGAN.

## BEAN-HARVESTER.

SPECIFICATION forming part of Letters Patent No. 539,589, dated May 21, 1895.

Application filed October 8, 1894. Serial No. 525,243. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT MOORE, a citizen of the United States, residing at New Lothrop, in the county of Shiawassee and State of Michigan, have invented certain new and useful Improvements in Bean-Pullers, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention consists in the peculiar construction of a plow, the knife bar and the steering or guide disk.

The invention further consists 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 a bean-puller embodying my invention. Fig. 2 is a horizontal section thereof on line *x x*. Fig. 3 is a front perspective illustrating the construction of the plow point or share. Fig. 4 is a vertical section through the plow point or share. Fig. 5 is a cross-section on line *y y*, Fig. 1. Fig. 6 is a cross-section on line *z z*, Fig. 4.

A is the plow beam, at its rear end having the vertical standard B.

C is a front gage wheel journaled in the lower end of the bifurcated standard D which at its upper end has a vertical engagement with the guide plate D', having a suitable set-screw or other means for locking it in its adjusted position.

At the lower end of the standard B is the offset plate E with which a flange F at the rear end of the plow point G engages, and is secured thereto by suitable bolts G'.

The plow share has the inclined point H and a body portion extending rearwardly therefrom. Upon this body portion is an inclined notched bar I in which engages the front end of the inclined cutter blade J, being secured thereto by suitable countersunk bolts K<sup>2</sup>, the nuts K' of which are in the recess L on the under side of the share. The blade J extends parallel with the ground at an angle to the standard, as plainly shown in Fig. 2.

K are fender bars passing through apertures in the front standard B, and extending over the rear edge of the blade J acting to

throw the vines backward in the forward movement of the plow.

M are the handles secured to the standard B in the usual manner.

N is a horizontal bar secured at its front end to the standard B or the beam, and at its rear end provided with a longitudinal slot O in which engages the eye bolt O'.

P is a post or bar carrying at its lower end the wheel shaped disk Q having sharpened edges and journaled on a transverse pin or pivot. The bar P has a rotary and a vertical adjustment in the eye bolt O' so that the disk Q may be turned at any desired angle to the line of draft and be adjusted to the desired height.

The gage wheel C determines the depth of the cut of the plow and the disk Q offsets the side drafts of the plow due to the inclined blade J and this may be arranged to any desired degree of resistance by changing its angle to the line of draft, or its depth in the ground.

S is a curved finger secured at its upper end to the standard B and projecting down in front of the standard to throw off the weeds or vines in front of the harvester.

What I claim as my invention is—

In a bean harvester, the combination with the beam, of a vertical standard at the rear end thereof, an offset portion E at the lower end of the standard, a horizontal plow having recesses in its upper and lower faces, a vertical flange F at the rear end of the plow engaging the offset portion, a cutter blade secured in the recess in the upper face of the plow, extending obliquely outward and rearwardly therefrom, fender bars K having one end secured to the standard above the cutter blade and extending parallel therewith, and the curved fender finger S extending from a point above and adjacent the plow point and having its rear end secured to the standard, substantially as described.

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

ROBERT MOORE.

Witnesses:

JOHN NORTHWOOD,  
JULIAN W. BULLOCK.