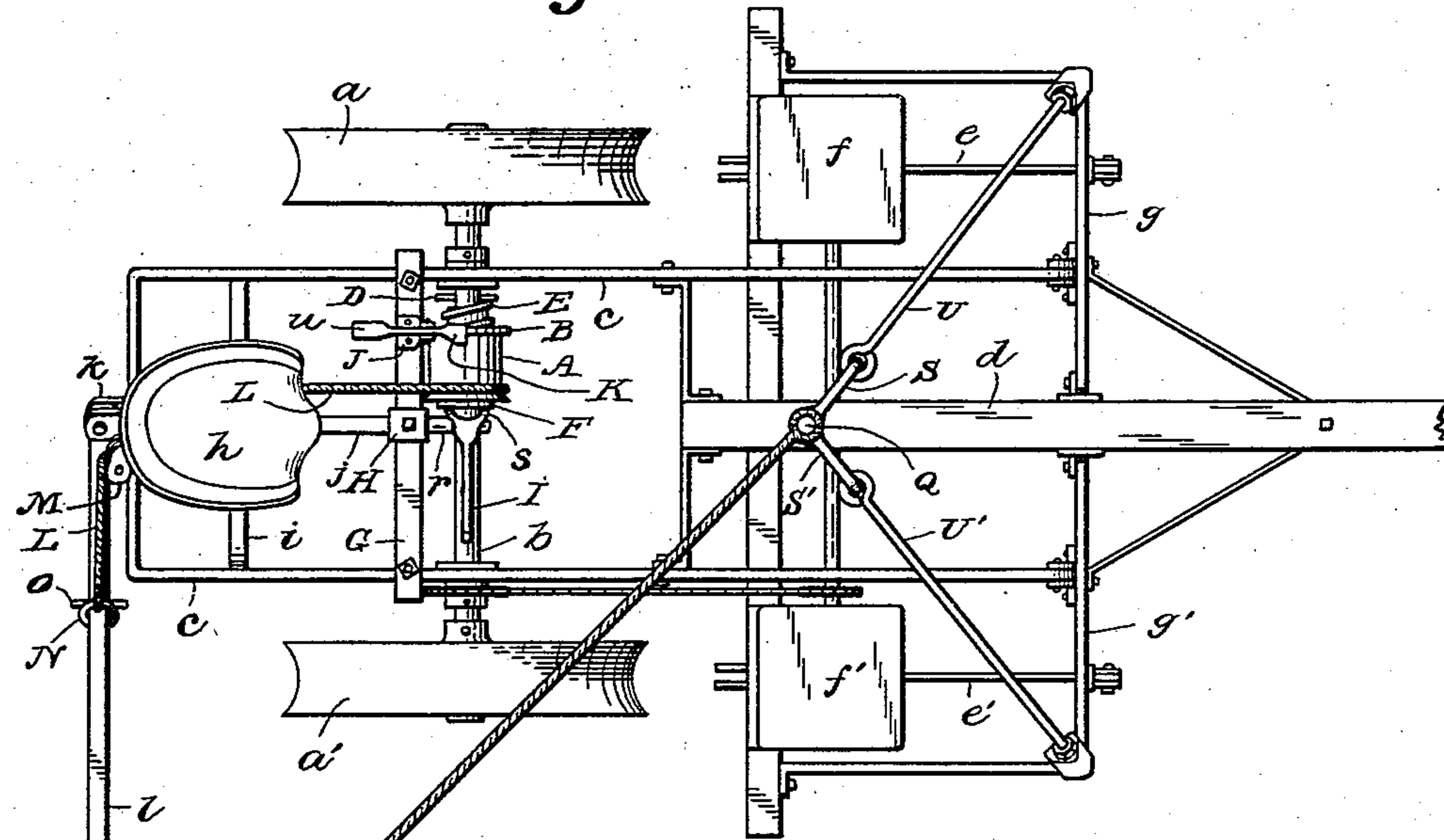
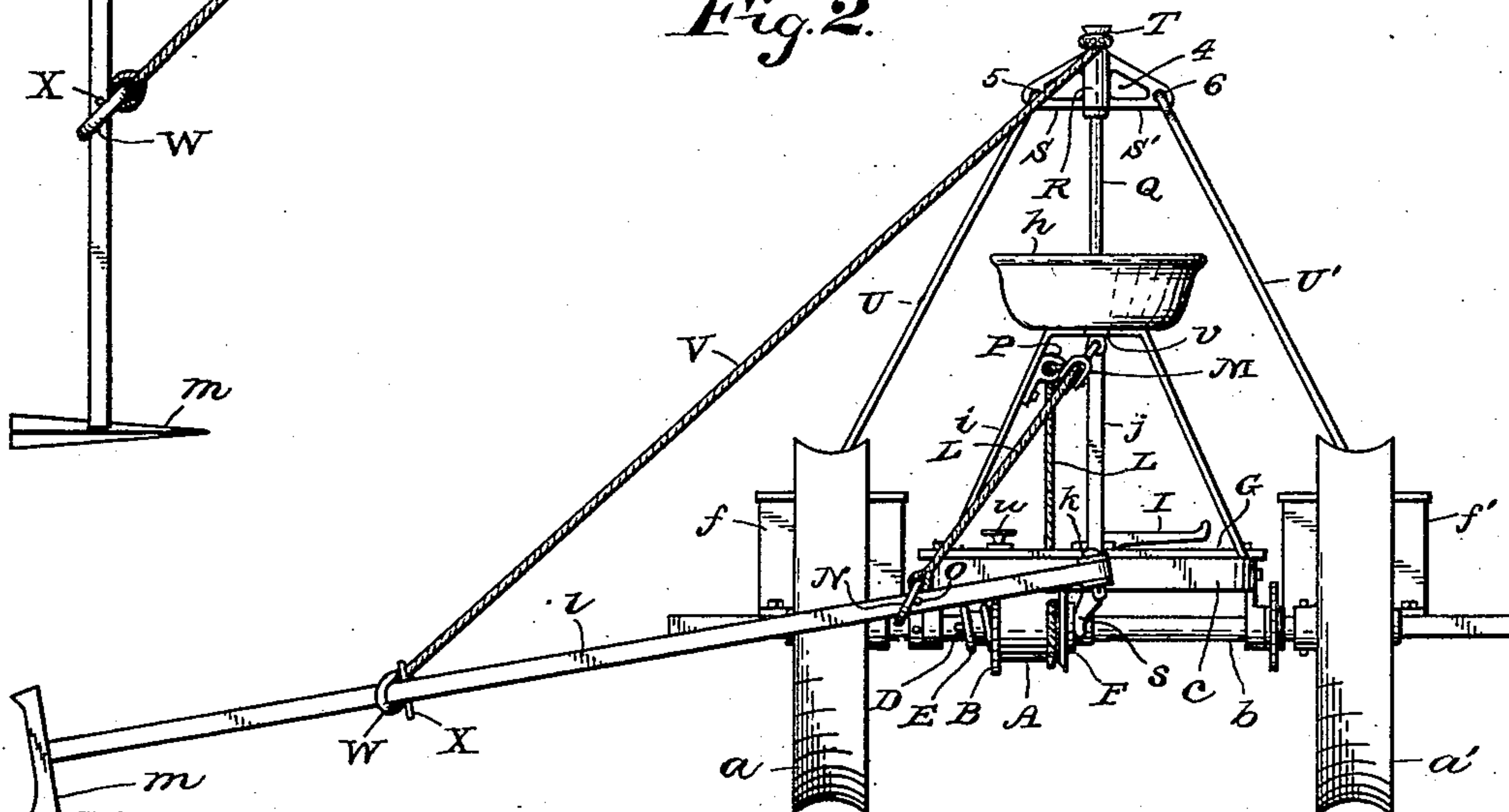


O. W. JONES.
MARKER LIFTER FOR CORN PLANTERS.

APPLICATION FILED SEPT. 28, 1903.

NO MODEL.

2 SHEETS—SHEET 1.

Fig. 1.*Fig. 2.*

Witnesses:

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Stella Snider.

Inventor:

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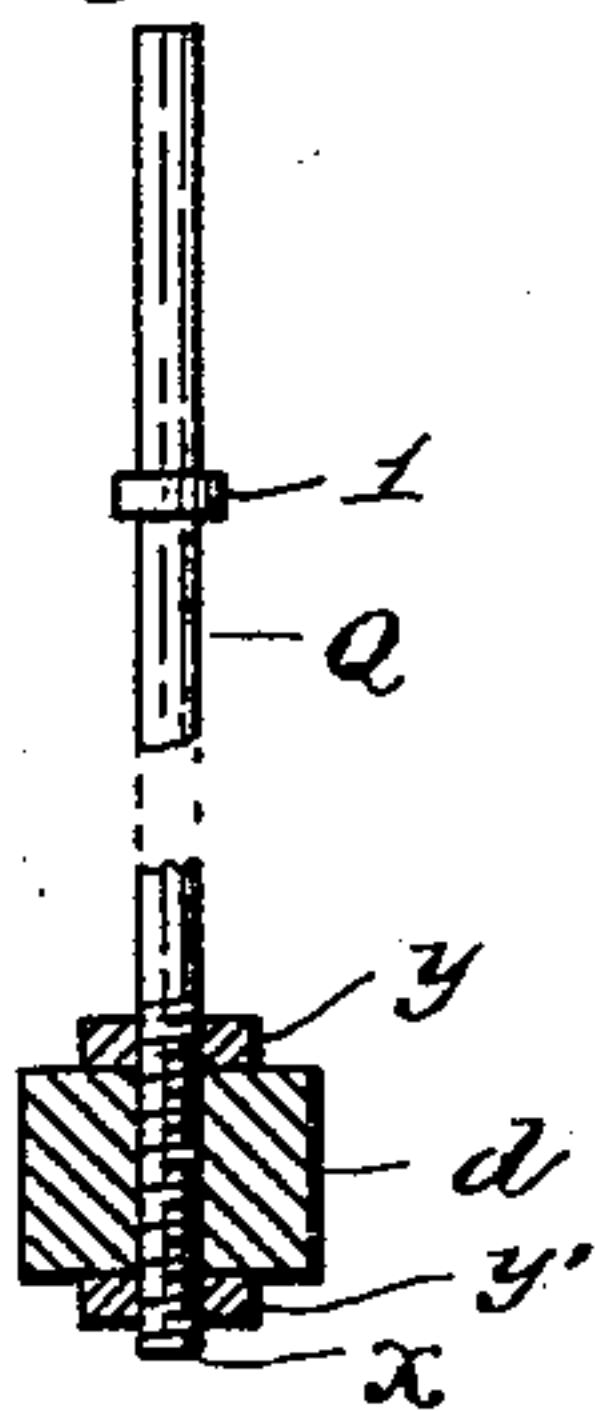
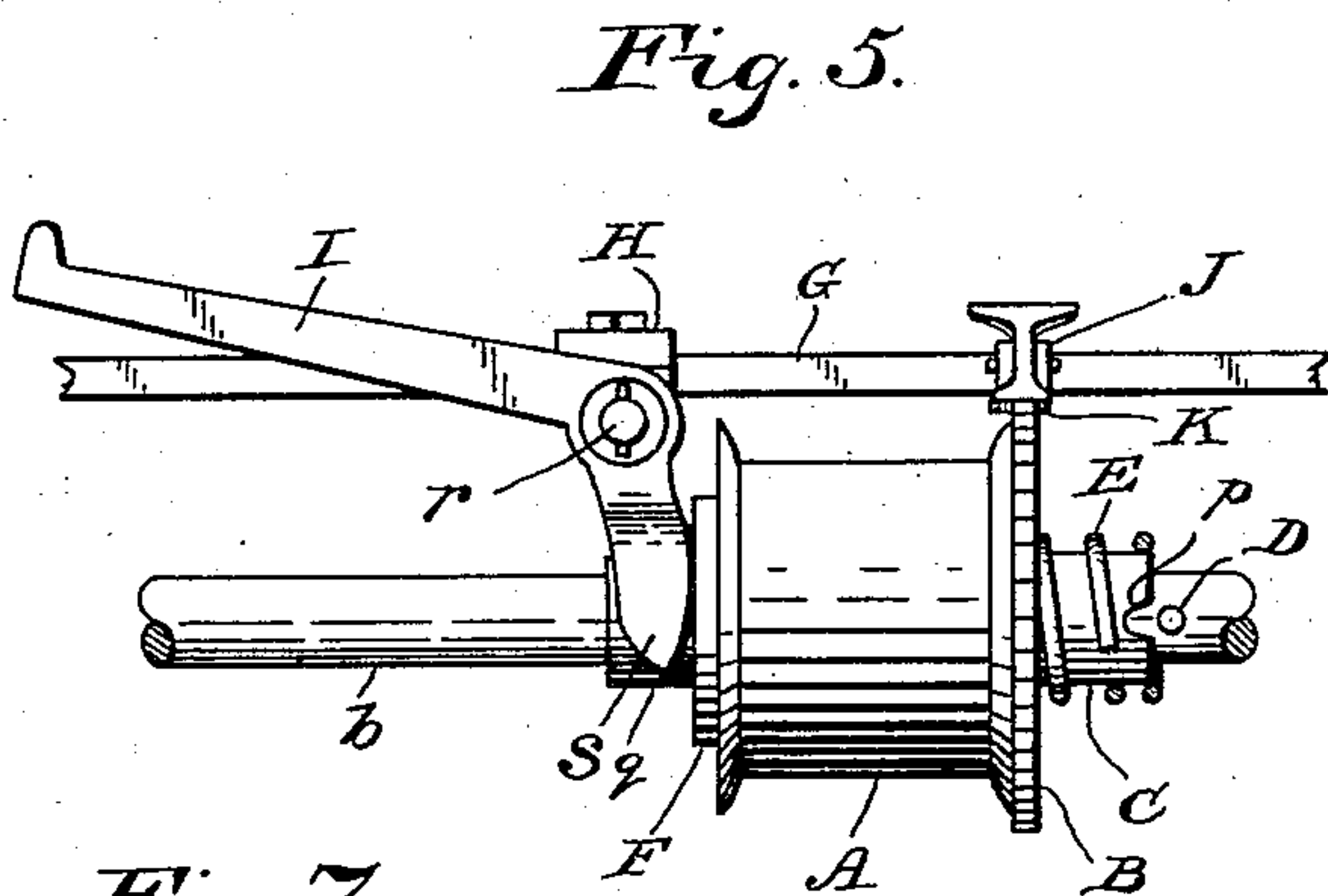
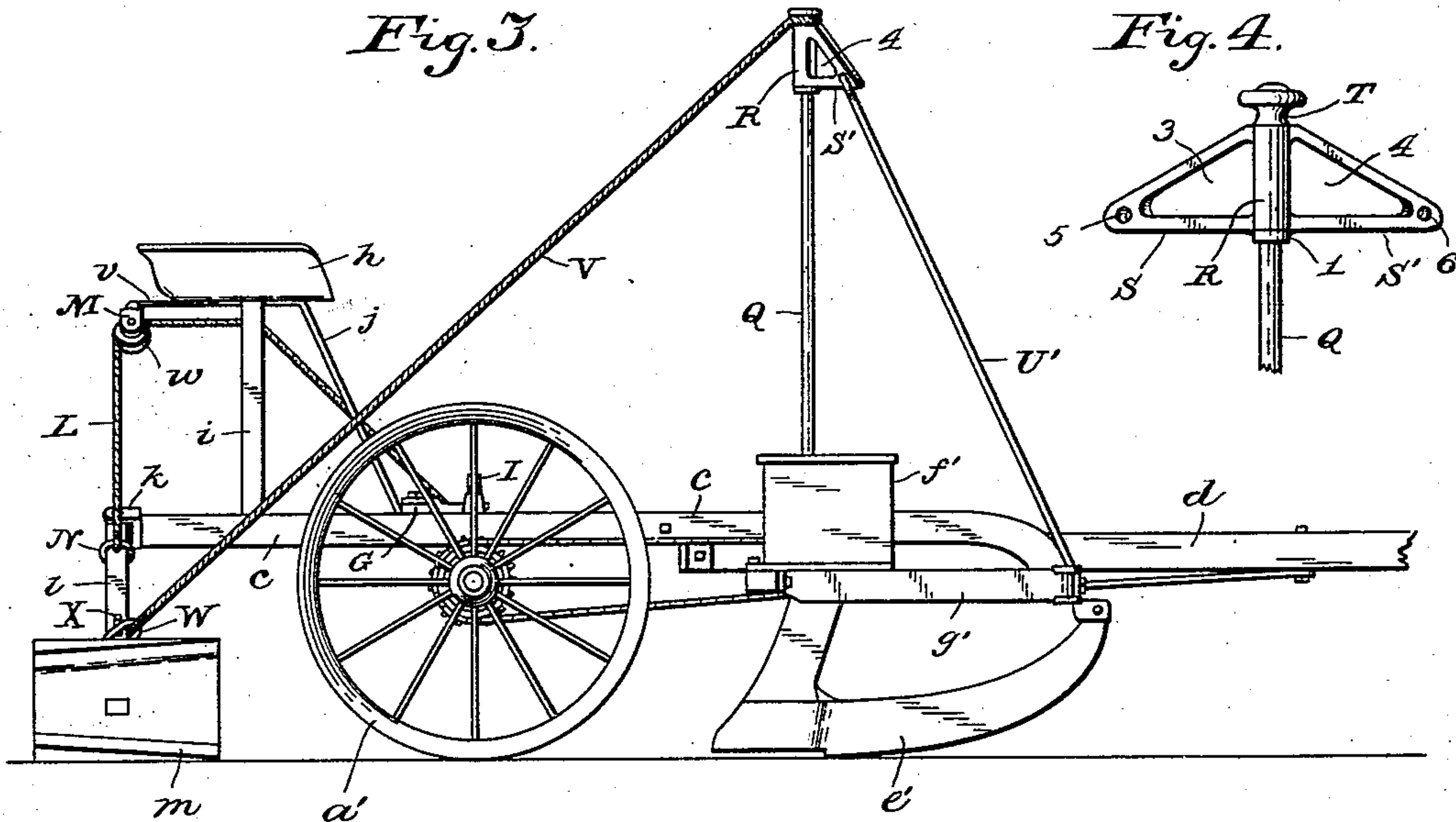
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UNITED STATES PATENT OFFICE.

OMER W. JONES, OF SUGAR CREEK TOWNSHIP, MONTGOMERY COUNTY,
INDIANA.

MARKER-LIFTER FOR CORN-PLANTERS.

SPECIFICATION forming part of Letters Patent No. 751,176, dated February 2, 1904.

Application filed September 28, 1903. Serial No. 174,867. (No model.)

To all whom it may concern:

Be it known that I, OMER W. JONES, a citizen of the United States, residing in Sugar Creek township, in the county of Montgomery and State of Indiana, have invented new and useful Improvements in Marker-Lifters for Corn-Planters; and I do declare the following to be a full, clear, and exact description of the invention, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to horse-power machines for planting corn, in connection with which is a marker for making lines on the ground parallel to the rows in which the corn may be planted, so that the driver of the machine may be guided by the lines in order to make all the rows parallel to one another, such markers being in common use; and the invention has reference particularly to attachments whereby the marker may be conveniently lifted so as to be reversed, or for passing obstructions, or for holding up the marker when moving the machine from field to field.

The invention also has reference to improvements in the draft-rigging for the marker.

The object of the invention is to provide means whereby the markers may be reversed at the ends of the rows in a convenient manner without requiring the driver to dismount from his seat on the machine.

A further object is to enable the driver to easily avoid drawing the marker against stumps or other obstructions; and a still further object is to improve the draft apparatus for the marker, so that in reversing the marker the draft-rope cannot become tangled in the framework or gearing of the machine.

The invention consists in a winding-drum mounted on the machine and adapted to be operated thereby, means for throwing the drum into and out of operative engagement, a cable connecting the drum with the marker-pole, and an elevated central draft-head to which the draft-rope of the marker is connected, the draft-head also providing guides for the driving-lines.

Referring to the drawings, in which similar

reference characters indicate like parts, Figure 50 1 represents a top plan view of the principal parts of a corn-planter having the improvements connected therewith; Fig. 2, a rear elevation thereof; Fig. 3, a side elevation thereof; Fig. 4, a rear elevation of the draft-head 55 detached from the machine; Fig. 5, a front elevation of the winding-drum and its connections; Fig. 6, a fragmentary sectional view longitudinally of the machine, showing an end elevation of the drum-locking wheel and side 60 elevation of the pawl therefor; Fig. 7, a fragmentary elevation of the staff for the draft-head connected to the machine-tongue; Fig. 8, a top plan of the draft-head, and Fig. 9 a central longitudinal sectional view of the drum 65 on its operating-shaft.

In the drawings only so much of the corn-planter is illustrated as will serve to identify the character of implement to which the invention is applicable, the devices for adjusting 70 the height of the runners being omitted, having no connection with the present invention. The popular type of planter herein illustrated includes carrying-wheels *a a'*, an axle *b*, main frame *c*, tongue *d*, runners *e e'*, seed-hoppers 75 *f f'*, hopper-frames *g g'*, and driver's seat *h*, supported by suitable means, as an arch *i* and brace *j*, a swivel-jaw *k* at the rear of the main frame below the rear of the seat, a marker-pole *l*, connected to the swivel-jaw, and a suitable 80 marker *m*, attached to the end of the pole. Various dropping devices are too well known to require description herein.

In a practical embodiment of the invention a winding-drum *A* is mounted rotatively on 85 a rotative shaft of the machine, in the present case on the axle or shaft *b*, which is adapted to be rotated by one of the carrying-wheels, which is preferable to the plan of providing a separate shaft for the drum. A ratchet- 90 wheel *B*, having teeth *n*, is suitably secured to one end of the drum, the wheel having a clutch-collar *C* attached thereto, the end of the collar having recesses *p* therein to receive lugs *D*, that project from the sides of the 95 shaft *b*, being secured thereto. A spring *E* encircles the collar *C*, bearing against the wheel *B* and the lugs *D*, normally preventing

engagement of the clutch devices. At the opposite end of the drum a collar F, having a hub *q*, is mounted movably on the shaft *b* and may rotate with the drum when forced
 5 against it. A cross-beam G is provided when not already employed on a machine, and is suitably secured to the main frame *c*. A bracket H, having a pivot *r*, is secured to the beam G, and a foot-lever I is mounted on the
 10 pivot *r* and has a forked end *s* engaging the collar F, straddling the hub *q*. A bracket J is secured also to the beam G and pivotally supports a pawl K, which is normally held in engagement with the ratchet-wheel B by means
 15 of a spring *t* attached thereto, the pawl having a foot-lever *u* for disengaging it from the ratchet-wheel. A cable L is connected to the drum A.

A pulley-block M, having a guide-pulley
 20 *w*, is suitably suspended at the rear of the seat *h*, either to a bracket *v*, as shown, or directly to the seat. A ring N encircles the pole *l* and is positioned by means of a pin O inserted into the pole, preventing the ring
 25 from sliding toward the swivel *k*. The cable L leads over the pulley *w* and is secured to the ring N, being guided to the drum by a suitable guide P, supported by the arch *i* or other suitable means.

30 The draft-head for the marker is supported on a staff Q, having a threaded end *x* extending through the tongue *d* and provided with locking-nuts *y y'* bearing against the top and bottom of the tongue. The staff has a collar 1 near its upper end. The head comprises
 35 a body R, having an opening 2, and rests on the collar 1, the top of the staff being upset to retain the body on the staff. The head is provided with a pair of wings S S', in which are
 40 openings 3 and 4, through which the driving-lines may be passed. Above the wings is a groove T, in which the draft-rope V is connected to the head, so as to be practically swiveled thereto. A pair of brace-rods U U' are
 45 connected in eyes 5 and 6 to the wings S S', and also to the frames *g g'* in any suitable manner. A ring W encircles the pole *l* and is positioned by means of a pin X, inserted in the pole, and the rope V is connected to
 50 the ring. If preferred, the rope may be connected directly with the marker *m*.

It should be understood that the structure as described is adapted to be applied to machines now in use, and may be slightly modified when applied to new machines, as various
 55 old forms of clutches may be provided for the winding-drum, if desired, within the scope of the invention.

In practical use the marker may of course
 60 operate at either side of the machine, as will be seen in Figs. 1 and 2, the draft-rope V remaining connected to the draft-head. If it is desired to elevate the marker when the machine is in motion, the driver may press a foot
 65 upon the lever I, causing the clutch-collar C

to engage the lugs D, thus setting the drum in motion, winding the cable L, and thereby raising the marker. When sufficiently high, the lever I should be released, when the spring
 70 E will force the clutch-collar C out of engagement with the lugs D, the pawl K holding the drum against unwinding. By pressing the lever *u* of the pawl the drum may be released to permit the marker to descend. In this manner the marker may be elevated at the rear of
 75 the driver's seat at the end of a row, and after turning the machine the driver may push the marker-pole beyond the perpendicular position, trip the pawl, and thus permit the marker to descend in reversed order. In reversing
 80 the position of the marker, the draft-rope will be carried clear of the machinery and without interfering with the lines or with the driver's person.

Having thus described the invention, what
 85 I claim as new is—

1. A corn-planter including a frame, a marker-pole carrying a marker swiveled to the frame, a rotative shaft, a winding-drum mounted on the rotative shaft, and a cable connected
 90 with the drum and also with the marker-pole.

2. A corn-planter marker provided with a lifting-cable, a winding-drum to which the cable is connected, a clutch for the drum, and a guide for the cable.
 95

3. A corn-planter marker provided with a lifting-cable, a winding-drum to which the cable is connected, gearing for driving the drum, a guide for the cable, and a latch for temporarily holding the drum and preventing reverse movements thereof.
 100

4. A corn-planter including a swiveled marker-pole, a cable-guide supported in a plane above the swivel of the pole, a cable connected to the pole and leading over the cable-guide,
 105 a winding-drum to which the cable is connected, and gearing for actuating the drum.

5. A corn-planter including a rotative shaft, a winding-drum rotative on the shaft, clutching devices cooperating with the drum and the shaft, a lever for actuating the clutching devices, a latch for the drum, a marker-pole provided with a lifting-cable connected to the drum, and a guide-pulley engaging the cable in a plane above the normal position of the
 110 marker-pole.

6. A corn-planter including a frame, a tongue, a reversible marker, a staff mounted on the tongue and provided with a combined draft-head and line-guide comprising wings
 115 having openings therein at opposite sides of the staff, and a draft-rope for the marker connected to the top of said head above said wings.

7. A corn-planter including a frame, a reversible marker provided with a lifting-cable,
 120 a winding-drum to which the cable is connected, a draft-head having a pair of wings having openings therein at opposite sides thereof, and a draft-rope for the marker connected to said head above said wings.
 125

8. In a corn-planter, the combination with a rotative shaft and a marker-pole connected with the planter, of a winding-drum rotative on the shaft, a cable connected to the drum and also to the marker-pole, a guide-pulley for the cable, a guide for the cable leading the same to the drum, a clutch mechanism coöperating with the drum and the shaft, a foot-lever connected with the clutch mechanism, a latch coöperating with the drum, a draft-rope

connected to the marker-pole, and a draft-head supporting the end of the draft-rope at a stationary point in a plane above the transverse center of the machine.

In testimony whereof I affix my signature in 15
presence of two witnesses.

OMER W. JONES.

Witnesses:

JOHN PETERSON,
S. S. MARTIN.