

No. 608,167.

F. E. ALSHOUSE.
DISK HARROW TRUCK.

Patented Aug. 2, 1898.

(No Model.)

(Application filed June 21, 1897.)

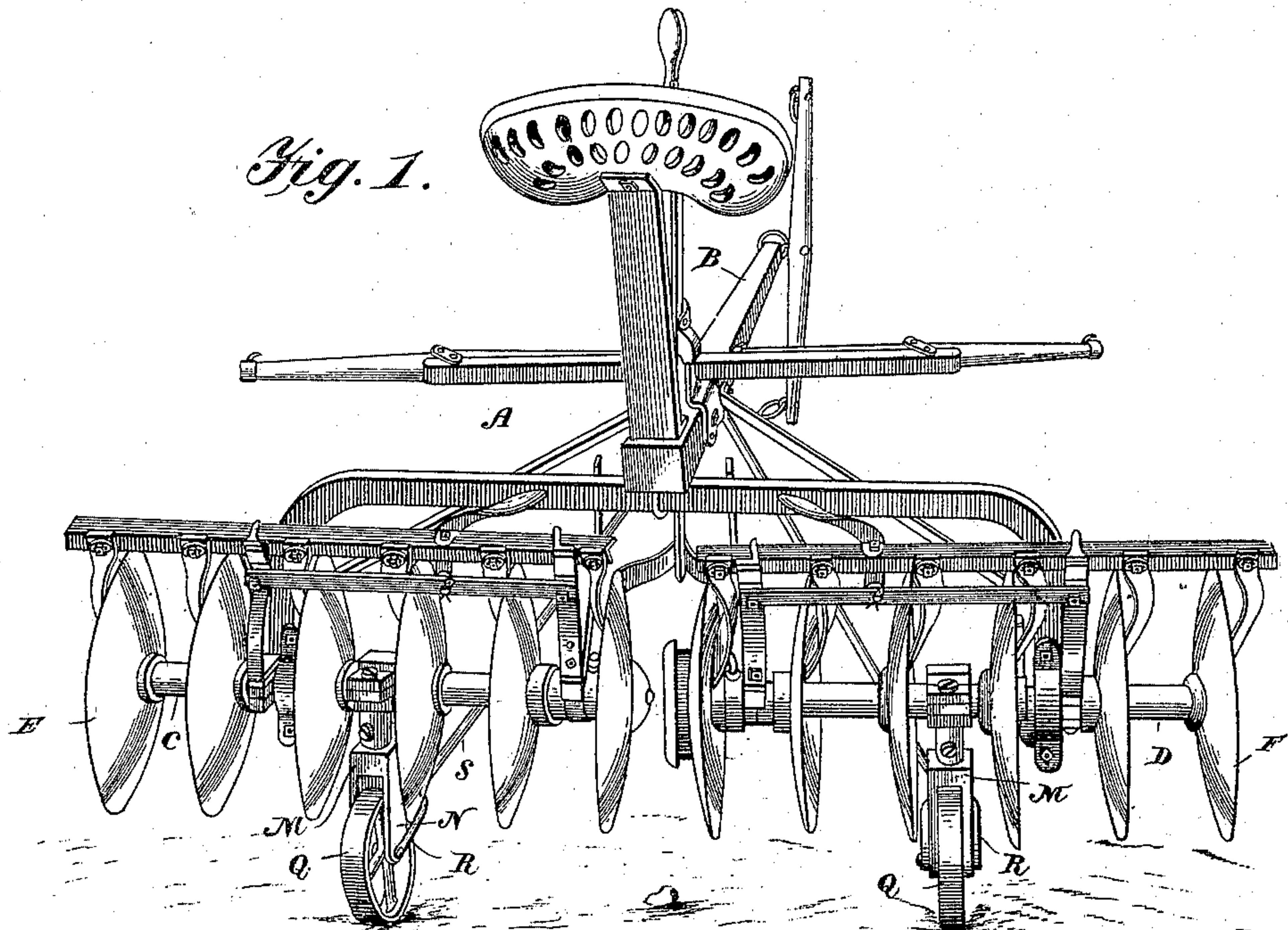


Fig. 2.

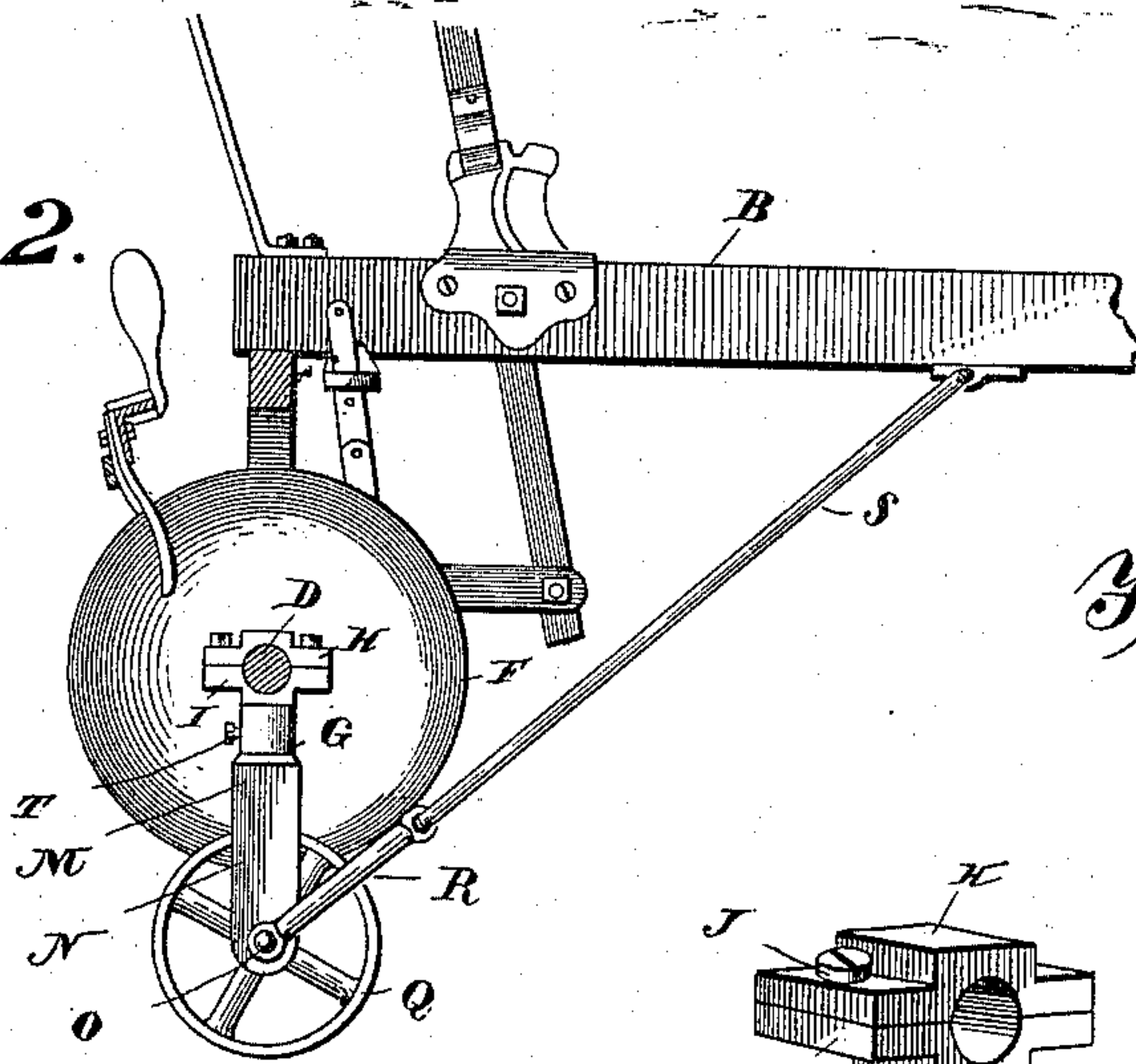


Fig. 4.

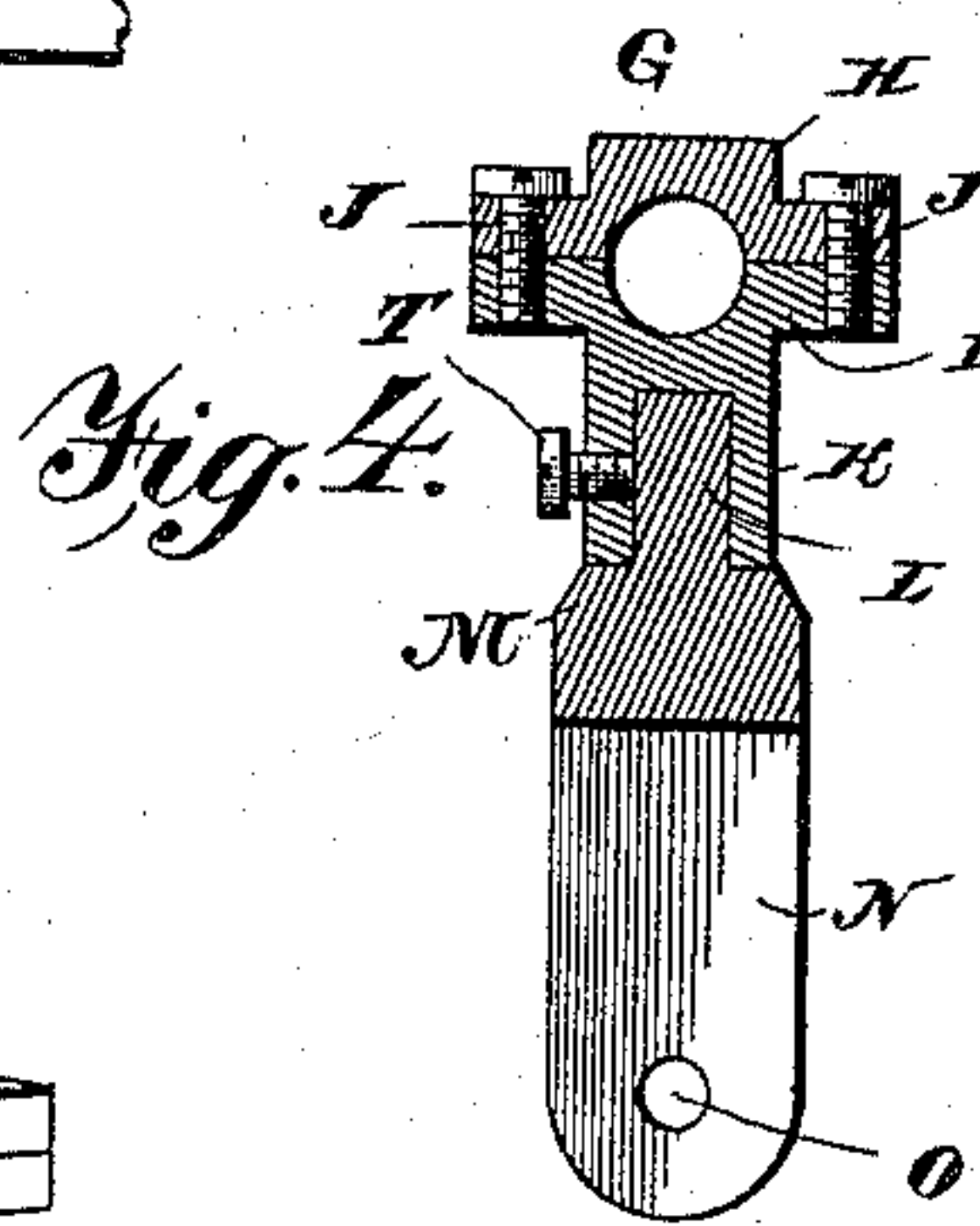
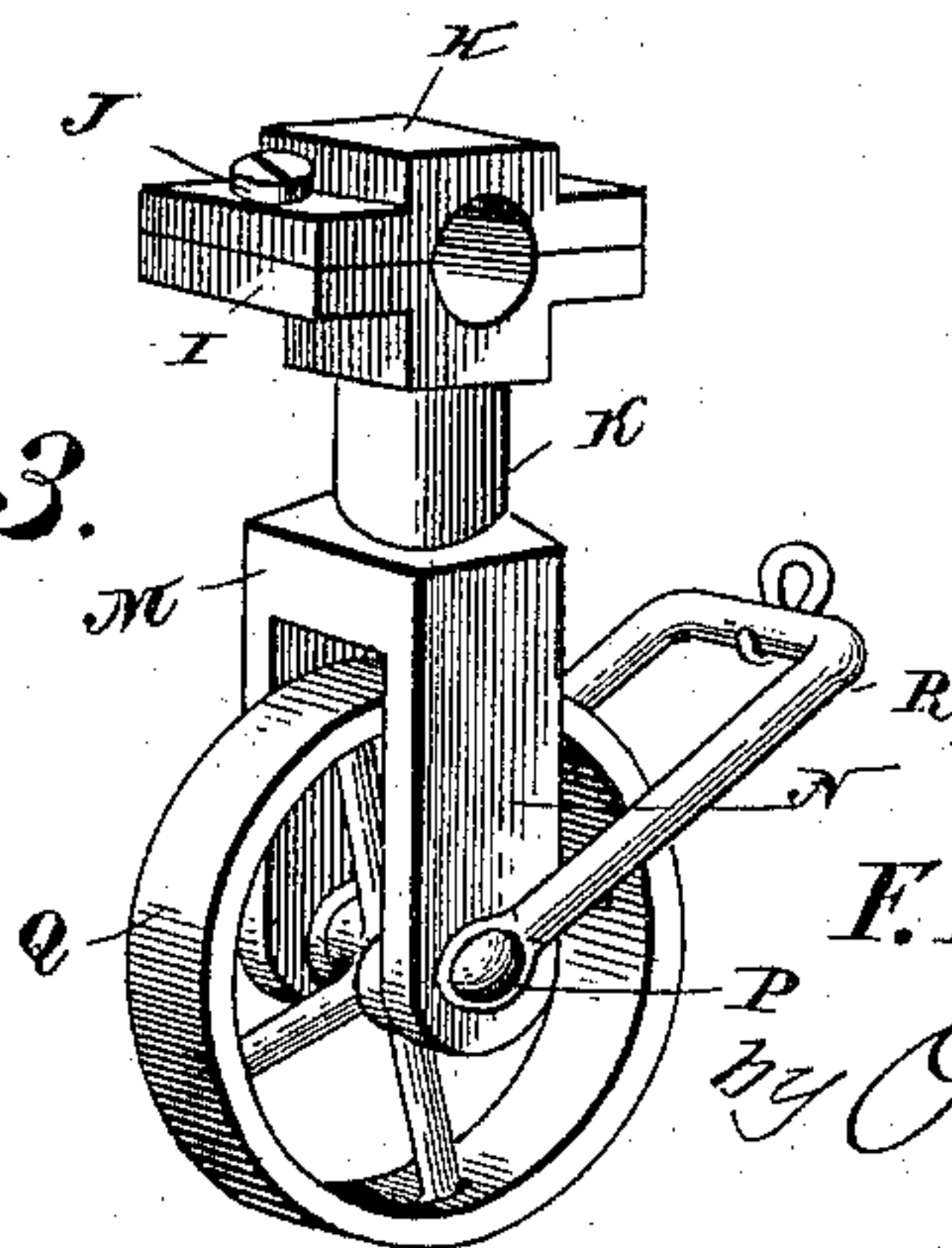


Fig. 3.



Witnesses

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UNITED STATES PATENT-OFFICE.

FRANKLIN E. ALSHOUSE, OF MARKLE, INDIANA.

DISK-HARROW TRUCK.

SPECIFICATION forming part of Letters Patent No. 608,167, dated August 2, 1898.

Application filed June 21, 1897. Serial No. 641,707. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN E. ALSHOUSE, residing at Markle, in the county of Huntington and State of Indiana, have invented a new and useful Harrow Attachment, of which the following is a specification.

My invention relates to harrows, and is in the nature of a truck to be adapted especially to disk harrows to facilitate their removal from place to place.

The object of my invention is to provide a truck which can be readily attached to or detached from a disk harrow and form supporting-wheels therefor, upon which the harrow may be removed from the barn to the field in which it is desired to operate it or from place to place in general.

A further object of my invention is to so construct a harrow attachment that while readily attachable and detachable it will firmly maintain its position in a straight line parallel with the tongue of the harrow no matter at what angle the disk-carrying shafts may be adjusted.

With these objects in view my invention consists in the improved construction, arrangement, and combination of parts hereinafter fully described and afterward specifically pointed out in the claims.

In order that persons skilled in the art to which my invention most nearly appertains may be enabled to make and use the same, I will now proceed to describe its construction and operation, reference being had to the accompanying drawings, in which—

Figure 1 is a rear perspective view of a disk harrow to which my invention is applied in position for practical operation. Fig. 2 is a detail sectional view on a plane cutting transversely through the disk-shaft, the tongue being broken away and the seat omitted. Fig. 3 is a perspective view of my improved truck attachment detached from the harrow, and Fig. 4 is a central vertical section through the truck-hanger and wheel-fork of the attachment.

Like letters of reference mark the same parts wherever they occur in the various figures of the drawings.

Referring to the drawings by letters, A is a disk harrow of any well-known construction, comprising, among other parts, a tongue B,

disk-shafts C and D, and carrying-disks E and F.

Great difficulty has been experienced heretofore in transporting disk harrows from place to place, and it has usually been the custom to load them upon a wagon for such transportation. In order to obviate this difficulty, I have constructed my improved attachment, in which G is a hanger adapted to be secured upon either of the shafts C or D by means of a clamp-plate H above the shaft and a similar clamp-plate I below the shaft, secured together and upon the shaft by means of bolts J. The lower clamp-plate I is provided with a vertical depending cylindrical projection K, in the interior bore of which is fitted the upwardly-projecting stem L of a wheel-support M, having depending fork-arms N, with bearings O for the journal P of a wheel Q, as clearly shown in Figs. 3 and 4. A clevis R is attached to the journals P of the wheel Q outside of the fork-arms N and connected to the end or side of the tongue by means of an inclined brace S. The stem of the wheel-support M being cylindrical and seated in a cylindrical opening may be turned in any direction to alter the angle of the wheel with relation to the disk-shaft or the tongue and may be secured in any adjusted position by a set-screw T, passing through one side of the cylinder K and bearing against the periphery of the stem, as clearly shown in Fig. 4.

The operation of my device may be described as follows: It being necessary to transport a disk harrow from one place to another, the clamp-plates are secured loosely upon the shaft, so that they may be freely turned thereon, the bolts or screws J being not quite tightened. In this position the cylinder may be swung to the rear and the stem K of the wheel-support L slipped into position, adjusted into line with the tongue of the harrow, and tightened by means of the set-screw T. A truck having been thus adjusted upon each shaft C and D, the brace S is pulled forward and attached in position to the tongue, which will bring the truck to a vertical position and raise the harrow off the ground. The bolts or screws J are now tightened, thus securing the truck rigidly in its position on the shaft, and the harrow is to all intents and purposes a wheeled vehicle which may be as readily

5 moved from place to place as a wagon or cart. The screws or bolts J and T for convenience of operation and to dispense with the use of wrenches may be thumb-screws or bolts with thumb-nuts, as may be desired.

10 From the foregoing description it will be obvious that I have produced a cheap, simple, and handy attachment whereby much trouble and annoyance and considerable loss of time are avoided in moving a harrow from place to place.

15 While I have illustrated and described what I believe to be the best means for carrying out my invention, I do not wish to be understood as limiting myself to the exact construction and arrangement herein shown, but hold that such slight changes and variations as might suggest themselves to the ordinary mechanic will properly fall within the limit and scope 20 of my invention.

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

25 1. In a disk-harrow attachment, the combination of a hanger consisting of an upper and lower clamp-plate adapted to be secured about the disk-harrow shaft, the lower clamp-

plate being provided with a downwardly-projecting cylinder, with a forked wheel-support carrying a wheel at its lower end and provided with a cylindrical stem projecting up 30 into said cylinder, and a set-screw for securing it adjustably therein, substantially as set forth.

2. In a disk harrow, the combination with 35 the tongue and the disk-shaft, of a hanger consisting of an upper and lower clamp-plate secured about the shaft, the lower clamp-plate having a downwardly-projecting cylinder, a forked wheel-support provided with a cylindrical stem projecting upward into said cylinder, a set-screw for securing it therein, a 40 shaft mounted in the forks of the wheel-support and projecting laterally therefrom, a wheel mounted on said shaft between the forks, a clevis pivotally secured on the outer 45 ends of said shaft, and a brace connecting the clevis with the tongue of the harrow, substantially as described.

FRANKLIN E. ALSHOUSE.

Witnesses:

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