

(Model.)

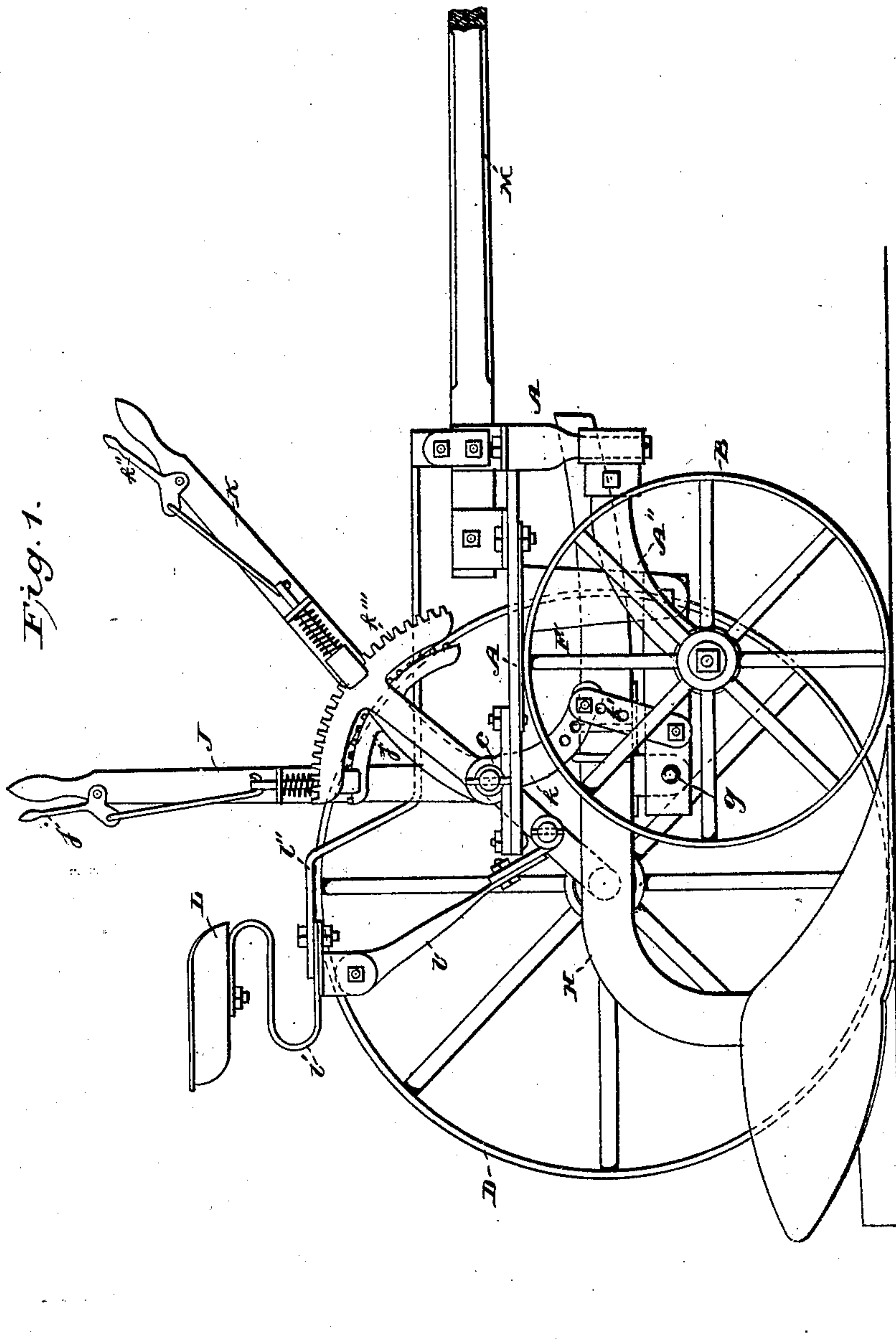
3 Sheets—Sheet 1.

R. S. HIGGINS.

SULKY PLOW.

No. 285,749.

Patented Sept. 25, 1883.



Witnesses:

Chas H Bates

Herbert Knight

*Inventor.*  
*Rozander S. Higgins*

By Knight Bros  
Attys.

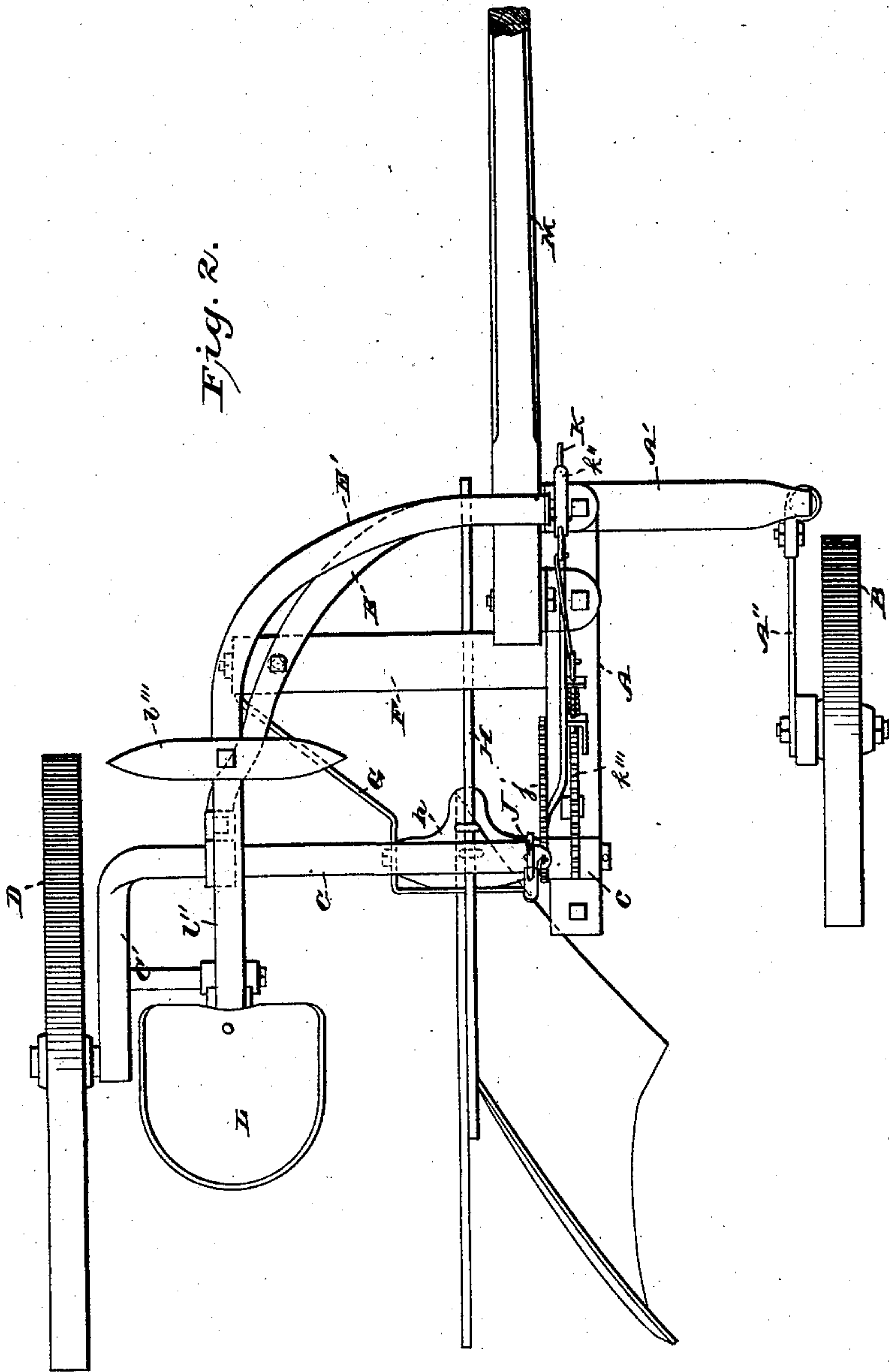
(Model.)

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R. S. HIGGINS.  
SULKY PLOW.

No. 285,749.

Patented Sept. 25, 1883.



Witnesses:

*Charles Baker*

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Attys.

(Model.)

3 Sheets—Sheet 3.

R. S. HIGGINS.

SULKY PLOW.

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Fig. 4,

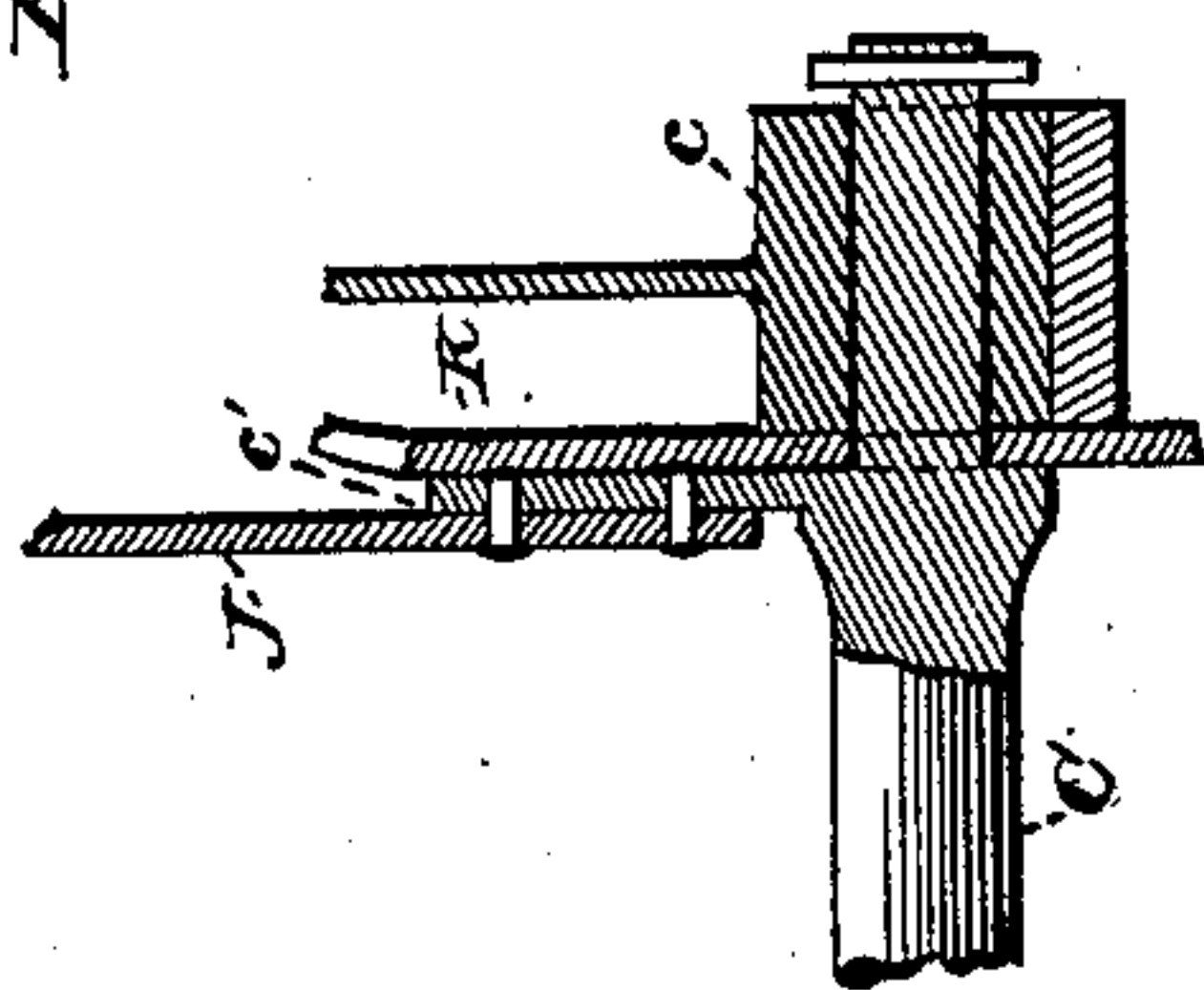
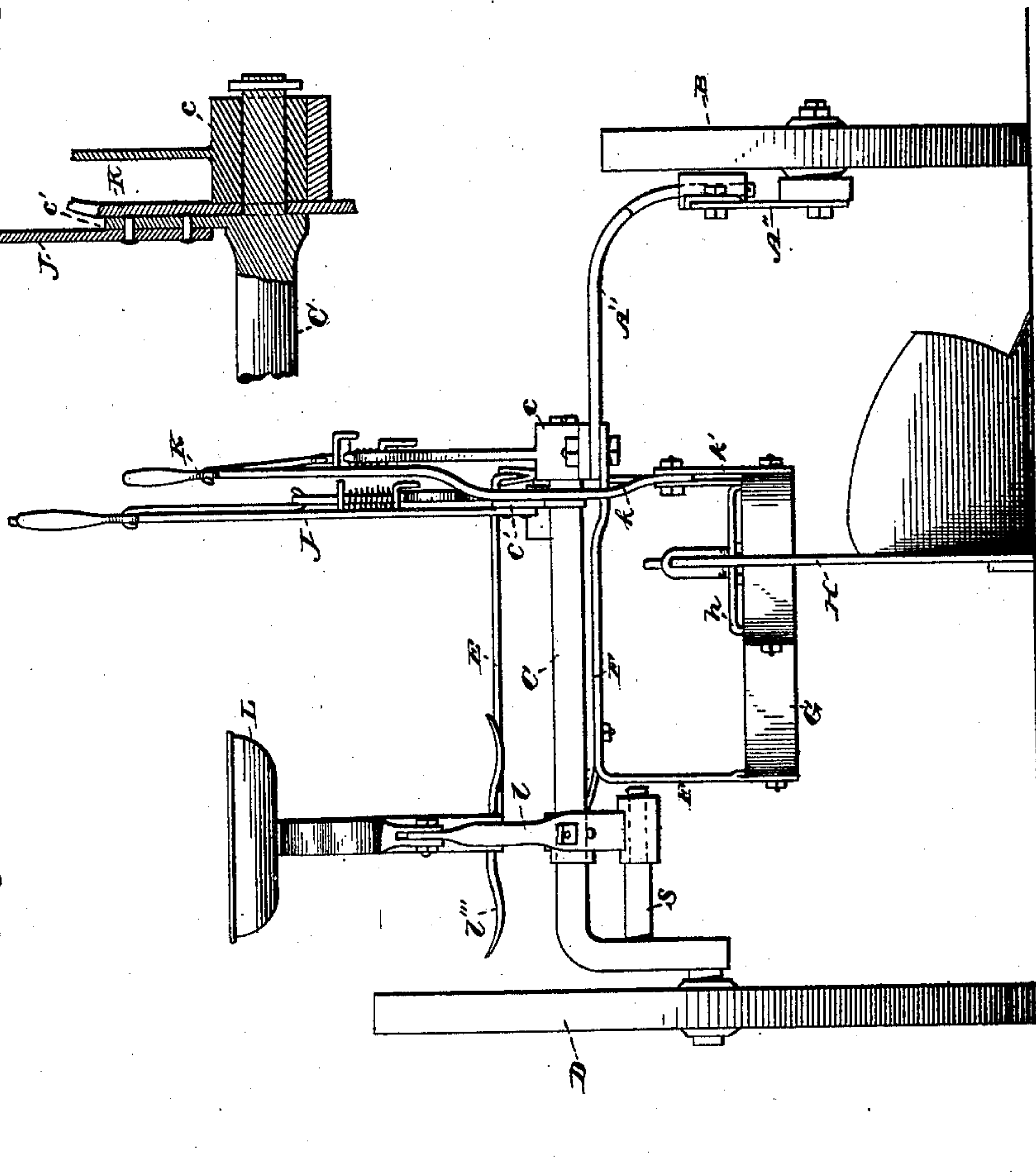


Fig. 3,



WITNESSES

*Chas. H. Baker*  
*Herbert Knight*

INVENTOR

*Rosander S. Higgins*

*By Knight Bros.*

ATTORNEYS.



# UNITED STATES PATENT OFFICE.

ROZANDER S. HIGGINS, OF BENTON HARBOR, MICHIGAN.

## SULKY-PLOW.

SPECIFICATION forming part of Letters Patent No. 285,749, dated September 25, 1883.

Application filed January 25, 1883. (Model.)

*To all whom it may concern:*

Be it known that I, ROZANDER S. HIGGINS, a citizen of the United States, residing at Benton Harbor, in the county of Berrien and State of Michigan, have invented new and useful Improvements in Sulky - Plows; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side elevation; Fig. 2, a plan view; Fig. 3, a rear view. Fig. 4 is a sectional view of the journal-box and a portion of the levers and segment-racks.

My invention relates, generally, to that class of agricultural implements called "sulky-plows," and particularly to the arrangement of levers for controlling the movements of the plow itself, so that the depth of the furrow made by the plow may be easily regulated, and the employment of a caster-wheel, as hereinafter described. Another advantage to be obtained by my implement is the avoidance of all unnecessary tipping of the plow.

Referring to the drawings, A represents the beam, having a downwardly-curved extension, A', which terminates in a spindle, forming a suitable axle for the arm A". Upon the end of this arm turns the caster-wheel B. From the beam A extends an axle, C, having a lateral extension, C', upon a spindle of which is placed the wheel D. The axle C moves in the journal-box c, the said journal-box being rigidly attached to the beam A. A curved bar, E, extends from the forward end of the beam A to the axle C, which bar serves to steady the latter. Upon the under side of beam A and bar E is attached a bar, F, bent downward at both ends, and having pivoted at these ends a stirrup-shaped bail, G, which latter forms a support for a pivot-pin, g, bearing in both sides of the said piece G, and also in lugs of the plate h, to which the plow-beam H is attached. The axle C is provided with a rigid upright, c', to which is bolted a lever, J. The lever J has a tripping-lever, j, with a spring-catch for engagement with a segment-rack, j', attached to a second lever, K.

The lever K moves upon the axle C, and it is provided with an arm, k, below said axle C, for attaching it to a link, k', extending upward from the bail G. k and k' are also provided with openings, by which means they can be attached to and adjusted upon each other. The lever K is provided, like the lever J, with a tripping-lever, k'', and spring-catch and segment-rack k''', the latter extending upward from the journal-box c. A seat, L, is supported on rod l and spring l', and is strengthened by rod l'', running to forward end of beam A. The rod l is pivoted on a spindle, s, extending from the lateral portion of the axle C. A rest, l'', for the driver's feet is placed on bar l''. The tongue M is suitably attached to the beam A.

It will be seen that by raising or lowering the lever K the plowshare will be raised or lowered in connection with the axle C, so that when the plow is raised the sulky will not tip or lean over on one side. By raising and lowering the lever J the plow can be adjusted to run level or be careened over to one side or the other at the will of the driver.

By means of the wheels D and B, I can turn the vehicle at right angles and keep the plow in the ground, which latter will serve also as a pivotal point for the vehicle.

It will also be seen that the caster-wheel B, being located in front and at the side of the plow, will travel in the furrow already formed, thereby serving as a guide, directing the course of the plow.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. In a sulky or other wheel plow, the combination of a lever for rocking the plow and moving the axle, provided on one side with a locking mechanism for engaging with a segment-rack attached to the plow, and on the other with a segment-rack for engaging the locking device of a second lever, which lever is adapted to move the axle alone, as described.

2. The combination of the axle C, having the arm k and lever J rigidly attached to it, with lever K, carrying on it the rack j, the

link  $k'$ , the said arm and link being provided with means of adjustment, as described, the bail G, plate  $h$ , and plow-beam H, all substantially as and for the purpose set forth.

- 5 3. In combination with the spindle  $s$  of the axle C, the seat L, adjustable jointed seat-support  $l$ , spring  $l'$ , and strengthening-rod  $l''$ ,

and beam A, all substantially as and for the purpose set forth.

ROZANDER S. HIGGINS.

Witnesses:

A. B. RIFORD,  
CHAS. FOSTER.