

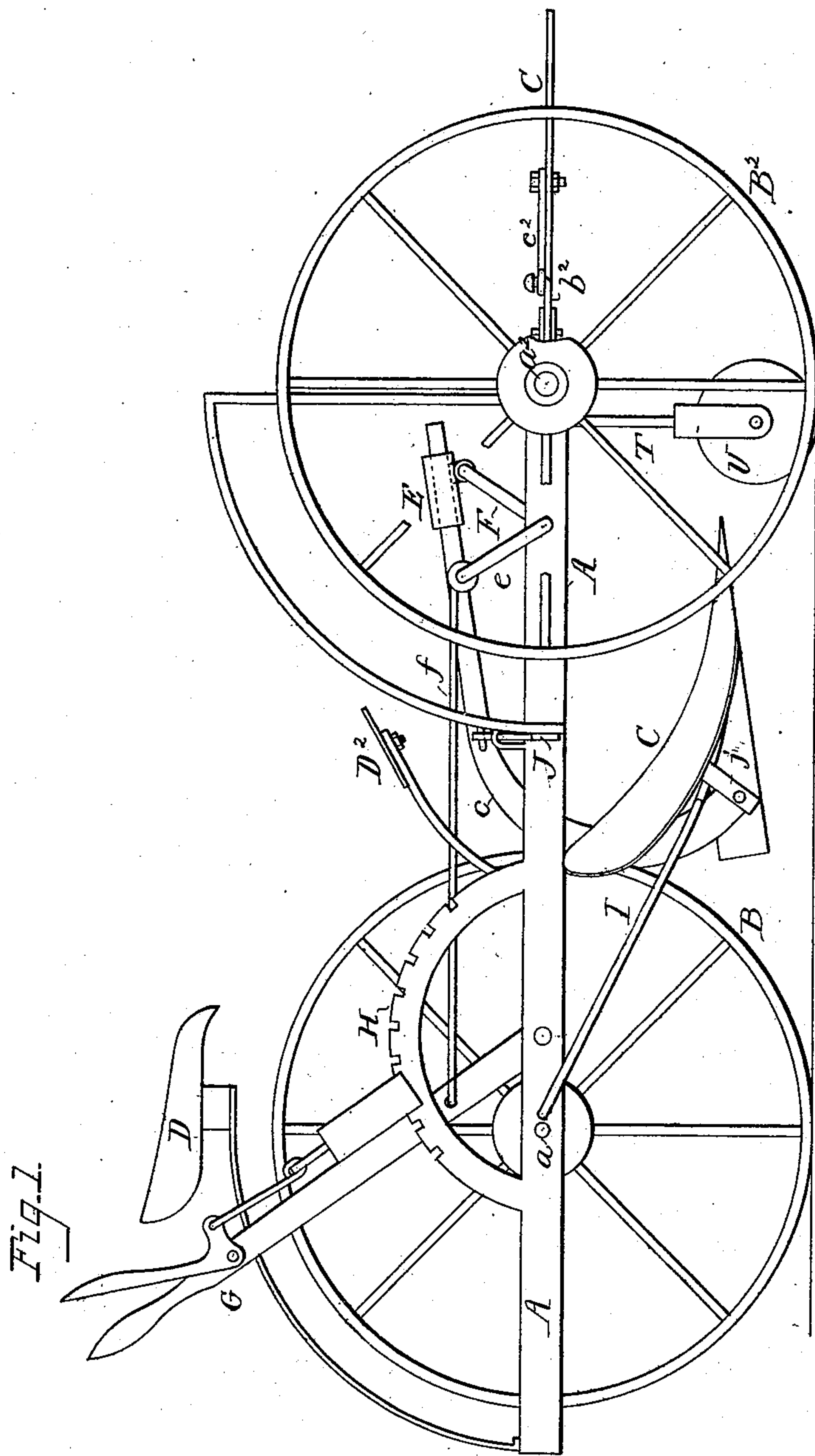
(No Model.)

2 Sheets—Sheet 1.

R. M. CLARK.
Wheel Plow.

No. 230,528.

Patented July 27, 1880.



Attest:
Courtney A. Cooper.
William Paxton.

R. M. Clark
By his attorneys
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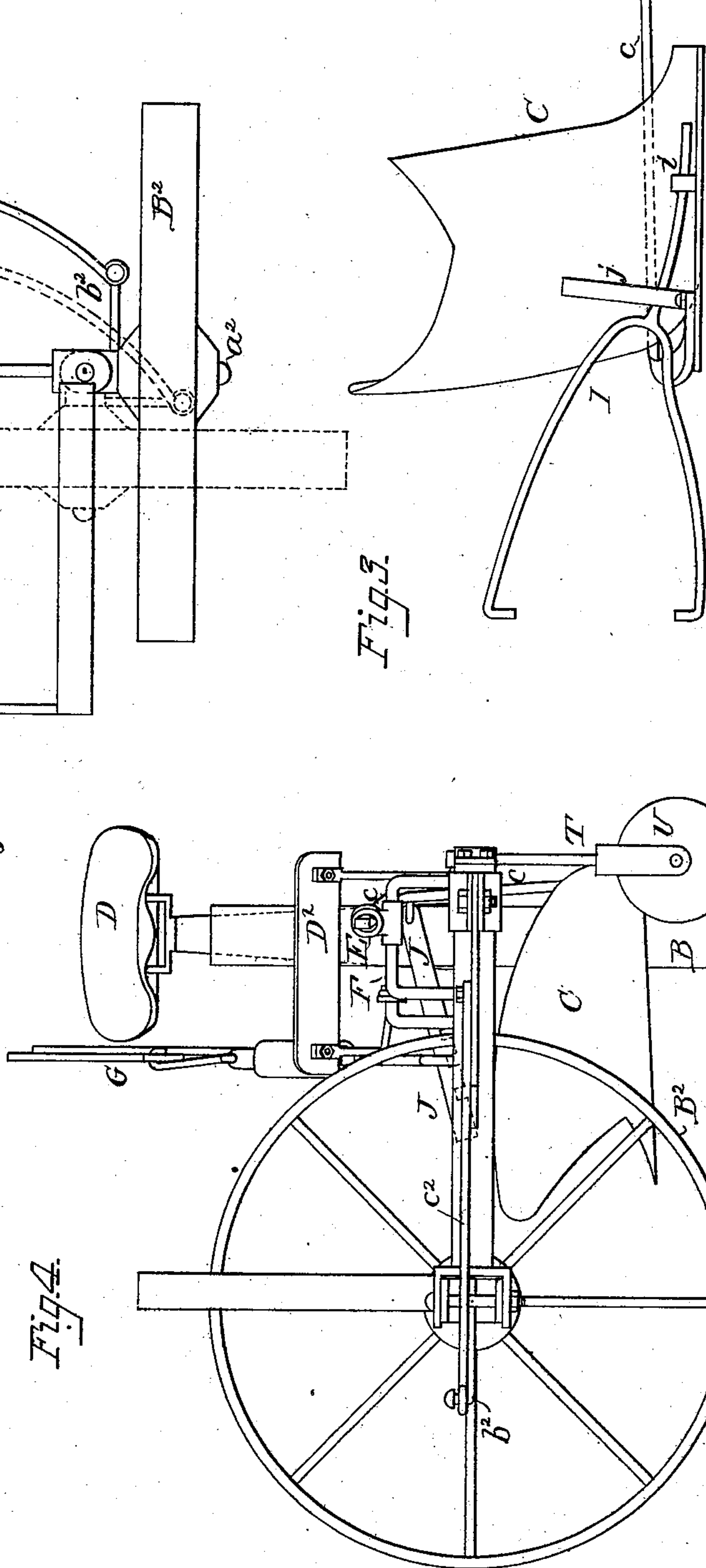
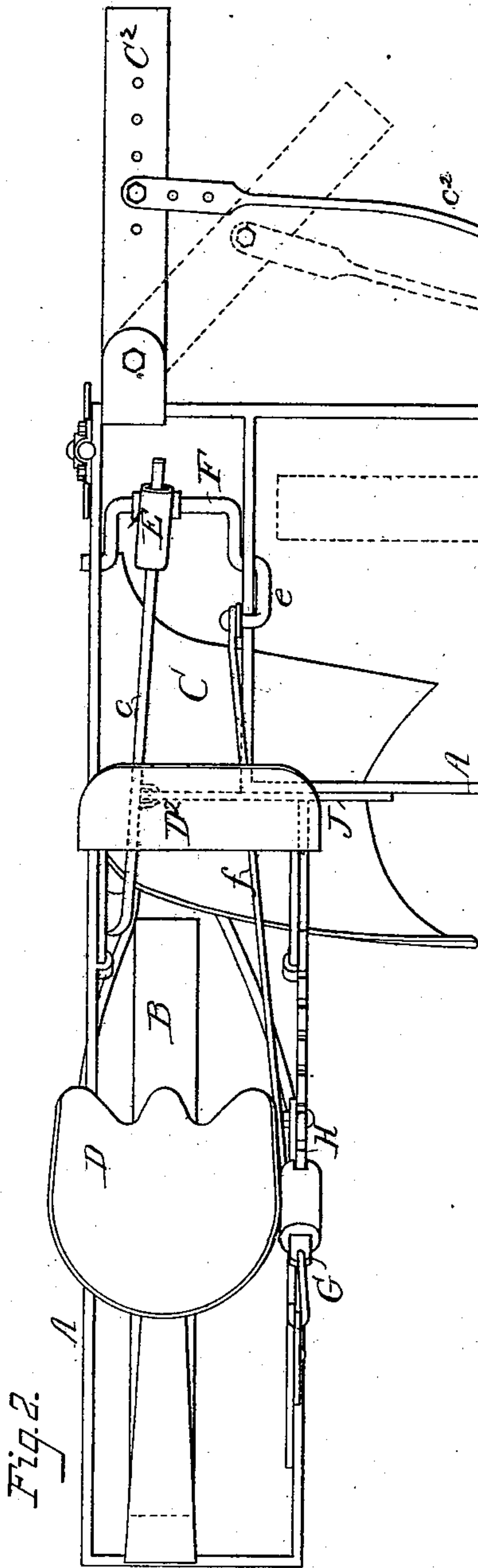
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UNITED STATES PATENT OFFICE.

ROSWELL M. CLARK, OF McPHERSON, KANSAS.

WHEEL-PLOW.

SPECIFICATION forming part of Letters Patent No. 230,528, dated July 27, 1880.

Application filed April 28, 1880. (No model.)

To all whom it may concern:

Be it known that I, ROSWELL M. CLARK, of McPherson city and county, State of Kansas, have invented an Improvement in Wheel-
5 Plows, of which the following is a specification.

This invention relates to wheel-plows for heavy work; and it consists in a novel combination of parts to facilitate turning, a simple
10 and efficient combination for raising and lowering the plow from the front end of its beam, so as to utilize the leverage thus afforded, and a combination of parts for suspending the plow within the frame in such a way that the plow
15 is not drawn by the beam, but is propelled from behind, so that the front end of the beam can be raised and lowered, as aforesaid, independently of the draft.

Figure 1 in the accompanying drawings is a
20 side view of a plow illustrating this invention. Fig. 2 is a top view of the same, showing by full and dotted lines different positions of certain parts. Fig. 3 is a view of the plow proper, showing its braces. Fig. 4 is a front elevation.
25

Like letters of reference indicate corresponding parts in the several figures.

A represents a continuous frame, preferably of bar-iron, its widest end in front, and proportioned to the width between two furrows of
30 a given size, and its landside straight.

B B² represent two wheels, which support the frame A and its load, and C represents a mold-board plow, which may be of any approved pattern. The latter is suspended within the frame A, near the landside thereof, as hereinafter more particularly described, and the wheel B is arranged immediately behind it, so as to run in its furrow. The wheel B² being located at the right-hand forward extremity of the frame, and to one side of the line of the wheel B, may run in a parallel furrow ahead of the plow. The axle *a* of the wheel B is mounted between parallel bars of the frame,
40 and may be fixed as shown, or rotary.

The axle *a*² is a stud-axle pivoted to swing in a horizontal plane, as shown in Fig. 2. It consequently permits the wheel B² to swing horizontally, as illustrated in Fig. 2.
50

To accommodate the wheel B² in the position indicated by dotted lines, Fig. 2, the side

bar of the frame is raised or arched, as shown in Fig. 1. To swing said wheel automatically in this or the opposite direction, to accord with the line of the draft and to facilitate turning,
55 the axle *a*² is provided with a rigid arm, *b*², which is connected by a rod, *c*², to a clevis, C², pivoted to the frame.

D represents the driver's seat, supported above the wheel B; D², the foot-rest. 60

The plow C is provided with a curved arm, *e*, the front end of which extends loosely into a sleeve, E, carried by the crank of a rock-bar, F, this rock-bar being mounted upon the frame A, and provided at one end with a short
65 arm, *e*, from which a rod, *f*, extends to a handle-lever, G, near the driver's seat. This handle-lever is pivoted near the lower end to the frame, as shown in Fig. 1, and a concentric notched sector, H, is attached to the same side
70 bar of the frame, the notches receiving a bolt carried by the lever G, so that the latter may be held in different positions. By this combination of devices the driver can readily raise and lower the plow from the seat D, utilizing
75 in the former operation the leverage afforded by the plow-beam.

For propelling the plow I rely on a bifurcated push-bar or double brace, I. (Shown clearly in Fig. 3.) The front end of this brace
80 fits in projections *ij* beneath the share and mold-board. The rear forks of the brace I are pivoted to the side bars of the frame near the axle *a*. The plow is thus thrust from behind, so as to leave the beam free for the aforesaid
85 adjustment.

The pivotal connection of the plow to the front end of the brace I permits the plow to be rocked to facilitate its operations, and this adjustment is effected by means of a bar, J,
90 Figs. 2 and 4, loosely attached to the beam *e*, and notched to engage with the upper edge of a side bar of the frame.

The frame A may be of any material and any approved construction as regards details of
95 shape. A pivoted tongue may take the place of the clevis-bar C², and other like modifications may be made without departing from my invention.

In some cases it is desirable to provide some
100 means of support when the plow is raised, although ordinarily this is not essential. In

such cases I use a side bracket, T, which may be adjustable, carrying a steadying wheel or roller, U, Fig. 4; but I do not here claim the arrangement of the said roller, as it may form the subject of separate application for Letters Patent.

I claim—

1. The combination, with the frame of the plow, of a wheel, B, behind the plow, having its axis in a stationary bearing, and a wheel, B², turning on a short axis pivoted at one side of the frame, to permit said wheel to be brought at right angles to the frame at one side thereof, substantially as set forth.

2. The bifurcated push-rod or brace I, in combination with the frame A, plow C c, and the adjusting device, substantially as described, for moving the plow-beam vertically, substantially as set forth.

3. The combination of the hand-lever G, rock-shaft F, sleeve E, and connecting devices

with the plow C, having a beam, c, extending loosely into said sleeve, substantially as herein set forth.

4. In a wheel-plow, the combination, with the frame, of a plow and push-rod arranged substantially as shown, whereby the plow may be propelled from the rear, substantially as set forth.

5. The combination of the frame, plow, and a push-rod, I, arranged to propel the plow from the rear, the said plow being pivoted to said rod to vibrate from side to side, and adjustable, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ROSWELL M. CLARK.

Witnesses:

JOHN FUNK,
J. A. EBERLY.