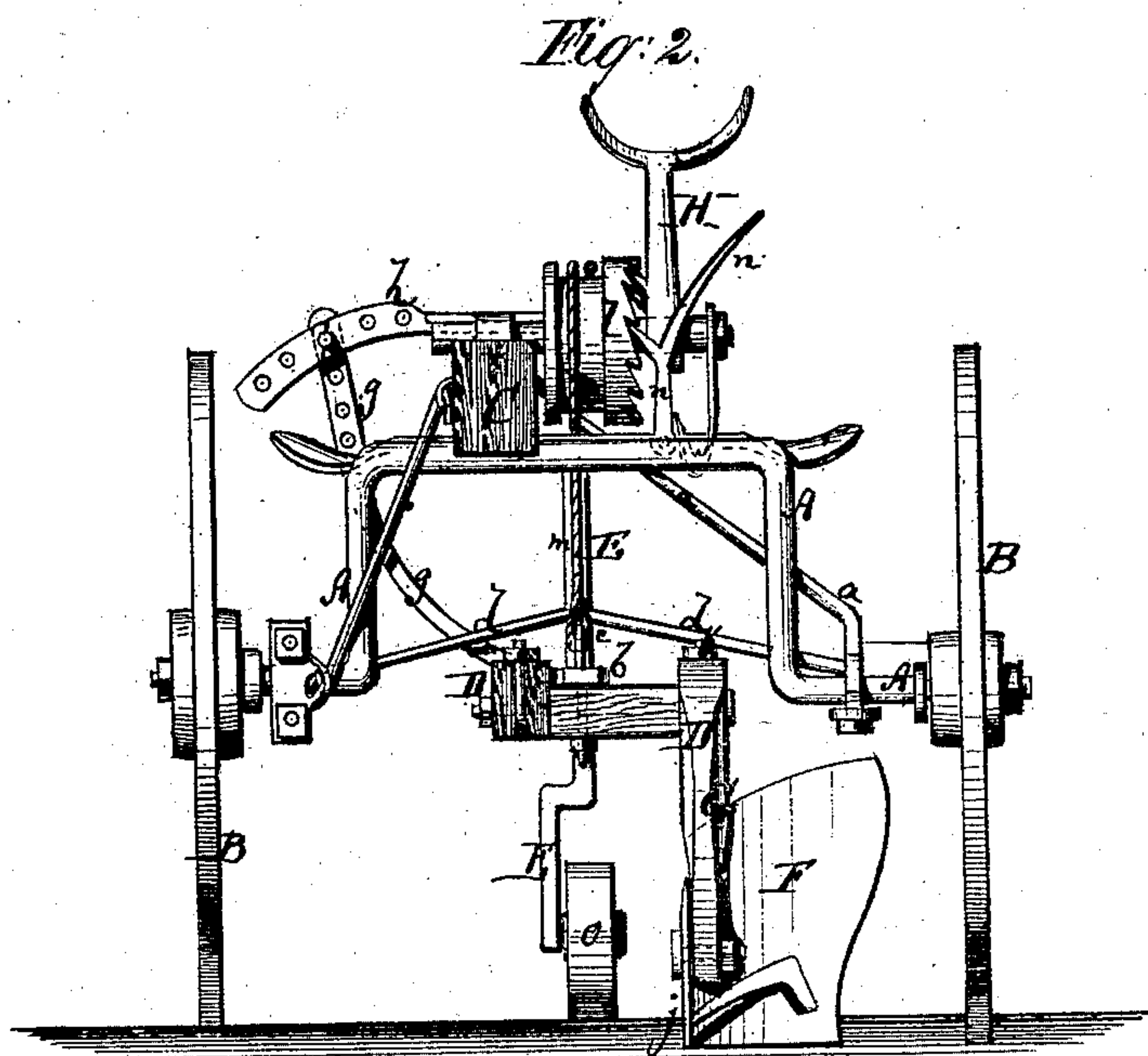
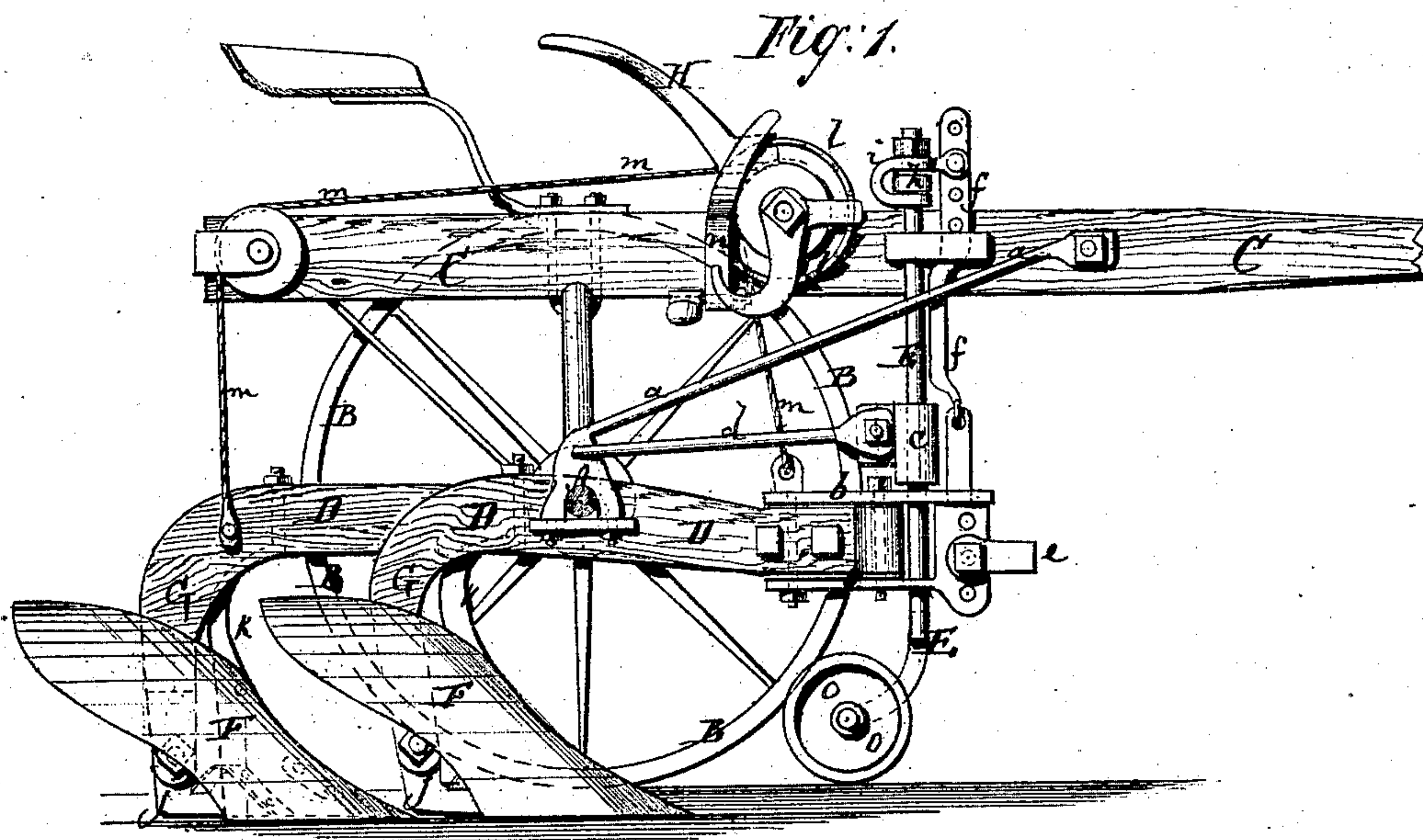


J. & S. COX.

GANG PLOW.

No. 99,538.

Patented Feb. 8, 1870.



Witnesses:

Alex L. Roberts

Paul Rogers

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PER

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# United States Patent Office.

JOHN COX AND SOLOMON COX, OF EUGENE CITY, OREGON.

Letters Patent No. 99,538, dated February 8, 1870.

## IMPROVEMENT IN GANG-PLOWS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that we, JOHN COX and SOLOMON COX, of Eugene City, in the county of Lane, and State of Oregon, have invented a new and improved Gang-Plow; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a side view, partly in section, of our improved gang-plow.

Figure 2 is a back view, partly in section, of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new gang-plow, which is adjustable in every direction, and of simple and durable construction.

The invention consists in the general arrangement of the adjusting-devices, and of various details of construction, all as hereinafter more fully described.

A, in the drawing, represents the U-shaped axle of our improved gang-plow. On its ends are hung the wheels B B, and on its elevated middle part is secured the tongue C, being stayed by braces *a a*, as shown.

D D are the plow-beams. Their front ends are connected by suitable plates *b b*, which are bolted or otherwise fastened to the beams. Through the connected front ends of the plow-beams is fitted a vertical bar, E, which passes through an eye, *c*, that is formed on the connected front ends of bars *d d*, whose rear ends are pivoted to the axle, or to ears projecting from the same. This is the only draught-connection between the truck and the plow.

The lower end of the bar E carries a small supporting-wheel, *o*. The clevis *e* is attached to the front end of the connected plow-beams, to a perforated vertical plate attached to the same. The proper balance is produced by three bars, *f*, *g*, and *h*, of which the first named projects vertically from the front end of the plow-beams, having its upper end pivoted to a link, *i*,

which is fitted loose around the bar E. The bar *g* projects obliquely from the front part of the connected plow-beams, and has its upper end pivoted to the bar *h*, which projects from the bar E, as shown. Where the various parts, *f g h*, are pivoted, they are provided with numbers of apertures, to make them, and with them, the position of the plow-beams adjustable.

The plowshares F are each provided with two upward-projecting arms, *j* and *k*, of which the former, shortest arm, is fastened to the standard G, which projects downward from the plow-beam. The front arm *k* is fitted against the under side and through the body of the plow-beam.

To the side of the tongue is pivoted a ratchet-wheel, *l*, to which ropes or chains *m m*, which extend to the plow-beams, are secured. A lever, H, is pivoted to the fixed axle of the ratchet-wheel, and will, when engaged with the teeth of said wheel, serve to turn the same, to raise the plows to a suitable height. A spring-pawl, *n*, engaging in the teeth of the wheel, locks it in every desired position. When thrown out, it allows the plows to drop.

One of the plow-beams may, if desired, be detached, and the other used separately on the apparatus.

The three fastenings on the curved axle are movable thereon, to allow one wheel to be thrown into a furrow when but one plow is used.

Having thus described our invention,

We claim as new, and desire to secure by Letters Patent—

1. The bars *f g h*, when combined with the upright bar E and plow-beams D D, substantially in the manner and for the purpose herein shown and described.

2. The ratchet-wheel *l* and loose lever H, when used in combination with the pawl *n*, and with the ropes or chains *m*, substantially as herein shown and described.

JOHN COX.  
SOLOMON COX.

Witnesses:

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