

C. THEDE.
Cultivators.

No. 138,451.

Patented April 29, 1873.

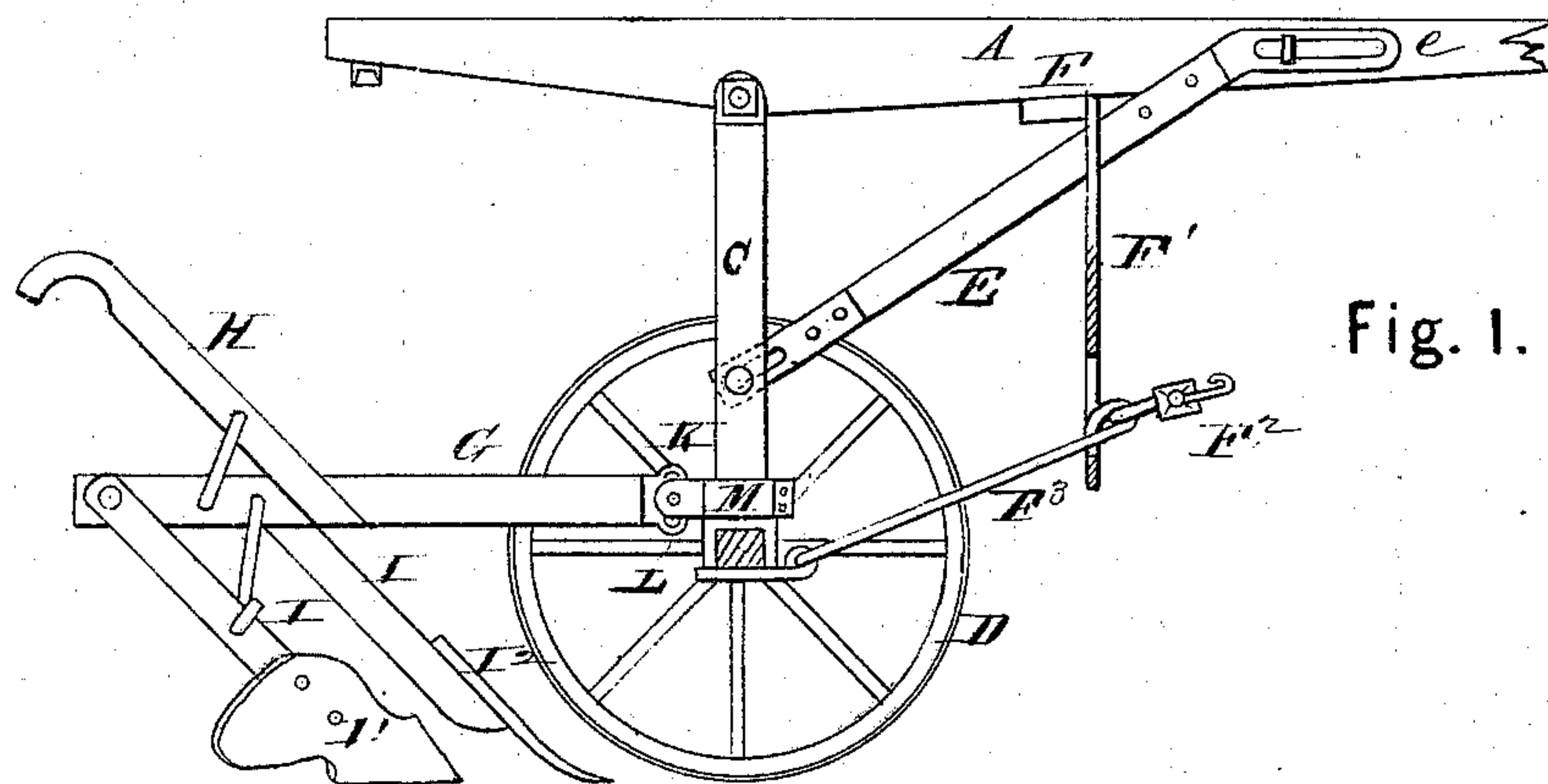


Fig. 1.

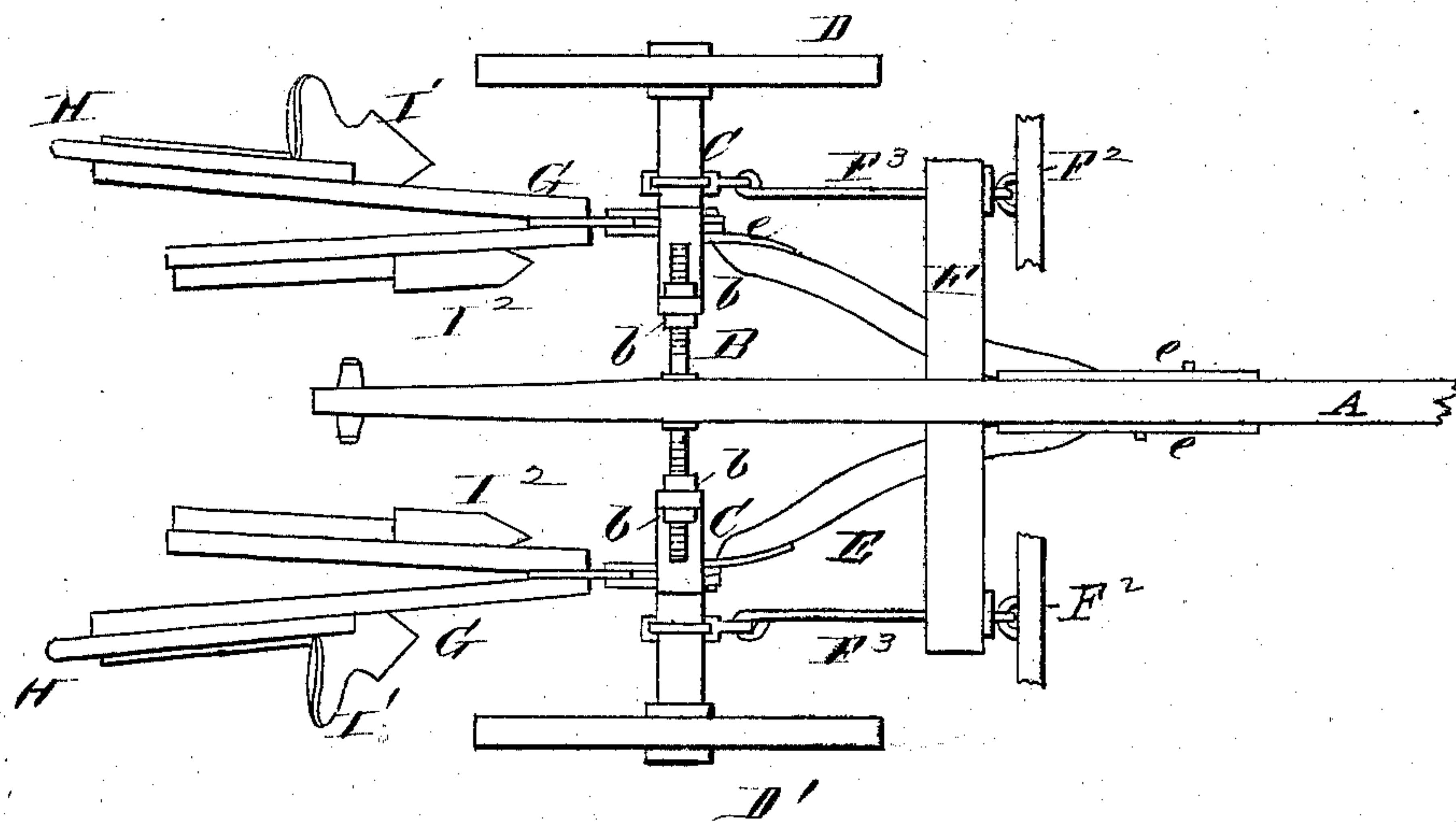


Fig. 2.

WITNESSES.

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UNITED STATES PATENT OFFICE.

CHRIST THEDE, OF ALEDO, ILLINOIS.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. **138,451**, dated April 29, 1873; application filed August 31, 1872.

To all whom it may concern:

Be it known that I, CHRIST THEDE, of Aledo, in the county of Mercer and State of Illinois, have invented a new and valuable Improvement in Corn-Cultivators; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a sectional view of my invention. Fig. 2 is a top view of my invention.

My invention has relation to wheel-cultivators; and it consists in the construction and novel arrangement of the devices, for the purpose hereinafter set forth.

In the drawing, A designates the draft-pole, and B a cross-piece secured thereto. This piece is of metal, and has threads cut on its laterally-projecting arms. C C designates the arched axle-tree, made in two parts, and secured upon the arms of the cross-piece B by nuts *b*. D D' represent the wheels, capable of being moved slightly out of line when they meet any obstruction, the upper parts of the axle turning on the arms B. E denotes braces reaching from the lower parts of the axle to the sides of the draft-pole, and designed to prevent the latter from bearing too heavily on the horse's neck. The ends of these braces hold slotted plates *e*, which allow the braces to adapt themselves to the position of the axle. F designates the cross-bar; F¹, slotted arms depending therefrom; F², the single-trees; and F³, flexible couplings connecting said single-trees to the axle, and passing through the slots in the hangers

or arms F¹. These arms hold the single-trees in place, but allow them to rise and fall to correspond to the motions of the axle. G G denote the plow-frames, each composed of two converging beams provided with a handle, H, and plow-standards I, the latter having shovels I¹ I² secured to them. One frame is attached to each movable section of the axle-tree; hence each horse bears the strain of one frame or set of shovels, and when the horses pull unequally they do not interfere with each other. Each frame is provided with a clevis, K, having a series of bolt or pivot holes, L, to receive the bolt or pivot connecting said clevis to the two plates M, which embrace a grooved part of the axle-section.

The plows may be raised or lowered by shifting the pivot to a higher or lower hole in the clevis, as may be required. The plates M allow the plow-frames to swing sidewise so that they may be guided along the ground. The frames may be rigidly secured in any position to which they are adjusted laterally by tightening the bolts which connect the forward ends of the plates M, as shown.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the laterally-adjustable axle-sections C and the threaded cross-piece B with the slotted pole-braces E, draft-pole A, and plow-frames G carrying the plows I¹ I², as shown and described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

Witnesses:

CHRIST THEDE.

THOS. B. MORRIS,
JAMES EAKIN.