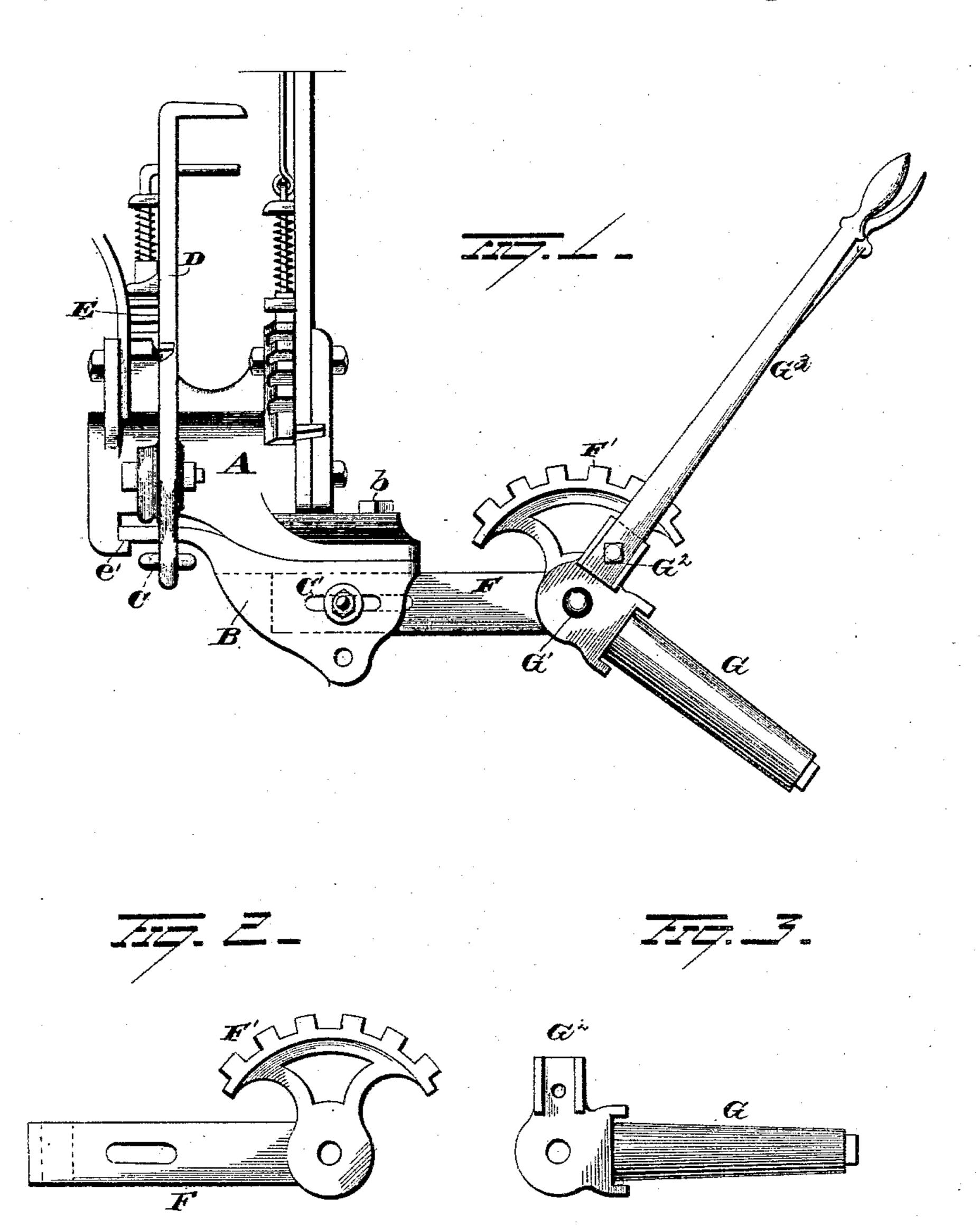
(No Model.)

## W. L. CASADAY.

WHEEL PLOW.

No. 323,496.

Patented Aug. 4, 1885.



J. Hothigham, Jeo. H. Downing. Wm & Casaday.

Botalinnour.

Attorney

## United States Patent Office.

WILLIAM L. CASADAY, OF SOUTH BEND, INDIANA, ASSIGNOR OF ONE-HALF TO THE SOUTH BEND IRON WORKS, OF SAME PLACE.

## WHEEL-PLOW.

SPECIFICATION forming part of Letters Patent No. 323,496, dated August 4, 1885.

Application filed June 10, 1885. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM L. CASADAY, of South Bend, in the county of St. Joseph and State of Indiana, have invented certain new 5 and useful Improvements in Wheel-Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the

10 same.

My invention relates to wheel-plows, and more particularly to an improvement on the construction shown in Patent No. 299,343, granted to me May 27, 1884. In this patent 15 the furrow-wheel is journaled on a spindle secured within a box, which latter can be turned in a horizontal plane by a lever secured to a sleeve, which latter forms a bearing for one end of the crank. Between the spindle and 20 the spindle-supporting box is inserted a washer, by means of which the inclination of the spindle can be varied or changed as necessity demands. This construction for changing the inclination of the furrow-wheel spindle is 25 objectionable, in that it is necessary, when it is desired to change the inclination of the spindle and the wheel journaled thereon, to stop the team and dismount.

The object of my present invention is to pro-30 vide improved means whereby the inclination of the furrow-wheel can be changed or varied in an instant without stopping the team; and with these ends in view my invention consists in the parts and combinations of parts, as will 35 be more fully described, and pointed out in

the claims.

In the accompanying drawings, Figure 1 is a view in side elevation of my improved device. Fig. 2 is a detached view of the sliding 40 block, and Fig. 3 is a detached view of the

wheel-spindle.

This improvement, while it is well adapted for use in connection with the plow described in the patent previously referred to, is also 45 well adapted to other constructions of wheelplows, and instead of being connected to a sleeve, as described in said patent, might be secured to other parts of a plow with good results; but for the sake of convenience I will 50 describe it in connection with the said sleeve.

A represents a sleeve adapted to be rigidly secured to a draft-tongue. To the under side of the sleeve, and at its outer end, is pivotally secured by the bolt b the box B, the free end of which slides in the groove e', formed in the 55 sleeve A. To the rear or free end of this box is pivoted the pitman C, which latter is also connected to the lower end of the operating-lever D. This lever is pivoted to the sleeve A, and is provided with a spring-actuated dog adapted 63 to engage the sector E, rigidly secured to the sleeve. The box B is hollow and preferably open on its lower face, and is provided on its opposite sides with the elongated slot C', which latter register with the elongated slot of the 65 sliding block F. By means of these elongated slots in the block and box the width of the furrows can be increased or diminished as necessity demands. The box and block are also provided with vertical slots for the passage of 70 the bolt b, which latter assists in holding the block in place. The block F is provided at its outer end with an opening for the passage of a bolt and with an upwardly-projecting sector, F', the function of which will be de- 75 scribed later on.

G is a spindle provided at its inner end with an enlarged head having a horizontal opening therein for the passage of the bolt G', which latter pivotally secures the spindle to the 89 block, and an upwardly-projecting socket or seat, G2, in which the lower end of the operating-lever G<sup>3</sup> is rigidly secured. This lever G<sup>3</sup> is provided with a spring-actuated dog adapted to engage the sector F' and lock the spindle in 85 position. By releasing the dog from the sector and drawing inwardly on the lever, the spindle can be moved upwardly to a horizontal position, and by releasing the dog and moving the lever outwardly the spindle can be inclined 90 to any angle desired, and cause the furrowwheel to run against the land wall of the furrow and prevent the plow from swerving to the left. In some instances the resistance of the earth on the plow causes the furrow-wheel 95 to mount the wall, and consequently elevate the plow above the surface. Again, in shallow plowing the resistance is not sufficient to cause the furrow-wheel to run in contact with the wall, and the plow consequently swerves 100 to the right. This, however, is overcome by the pivoted block F, which permits the wheel to be turned from the line of draft.

It is evident that numerous slight changes in the construction and relative arrangement of the several parts might be resorted to without departing from the spirit of my invention, and hence I would have it understood that I do not confine myself to the exact construction shown and described, but consider myself at liberty to make such changes as fairly fall within the spirit and scope of my invention.

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

15 Patent, is—

1. In a wheel-plow, the combination, with a rigid sector and a pivoted wheel-spindle, of a lever rigidly secured to the wheel-spindle, whereby the latter can be moved vertically in the arc of a circle for the purpose of changing the inclination of the wheel, and a dog for locking the lever to the sector, substantially as set forth.

2. In a wheel-plow, the combination, with a block having a sector rigidly secured thereto, of a wheel-spindle pivotally secured to said block, a lever rigidly secured to said spindle, whereby the spindle can be moved vertically in the arc of a circle for the purpose of changing the inclination of the wheel, and a dog for locking the lever to the sector, substantially as set forth.

3. In a wheel-plow, the combination, with an adjustable block and a wheel-spindle pivoted thereto, of a lever for changing the inclination of the spindle and devices for locking the lever to the block, substantially as set forth.

4. The combination, with a horizontally-movable block and a spindle pivoted to the 40 outer end thereof, of a lever for changing the inclination of the spindle and devices for locking the lever against movement.

5. The combination, with a longitudinally adjustable and horizontally movable block, of 45 a spindle pivotally secured to said block and devices for changing the inclination of said

spindle.

6. The combination, with a pivoted box and a block adjustably secured within said box, of 50 a spindle pivoted to the outer end of the block and a lever for changing the inclination of the spindle, substantially as set forth.

7. The combination, with the pivoted box, a lever for moving the same, and a block secured within said box, of a lever secured to the spindle, whereby the inclination of the

latter can be changed.

8. The combination, with the pivoted box, the lever for moving the same, the longitudi- 50 nally-adjustable block secured to the box and the sector secured to the outer end of the block, of the spindle pivoted to the outer end of the block, the lever for changing the inclination of the spindle, and a dog for locking the lever 65 against movement.

In testimony whereof I have signed this specification in the presence of two subscribing

witnesses.

WILLIAM L. CASADAY.

Witnesses:

F. C. NIPPOLD, H. B. SMITH.