

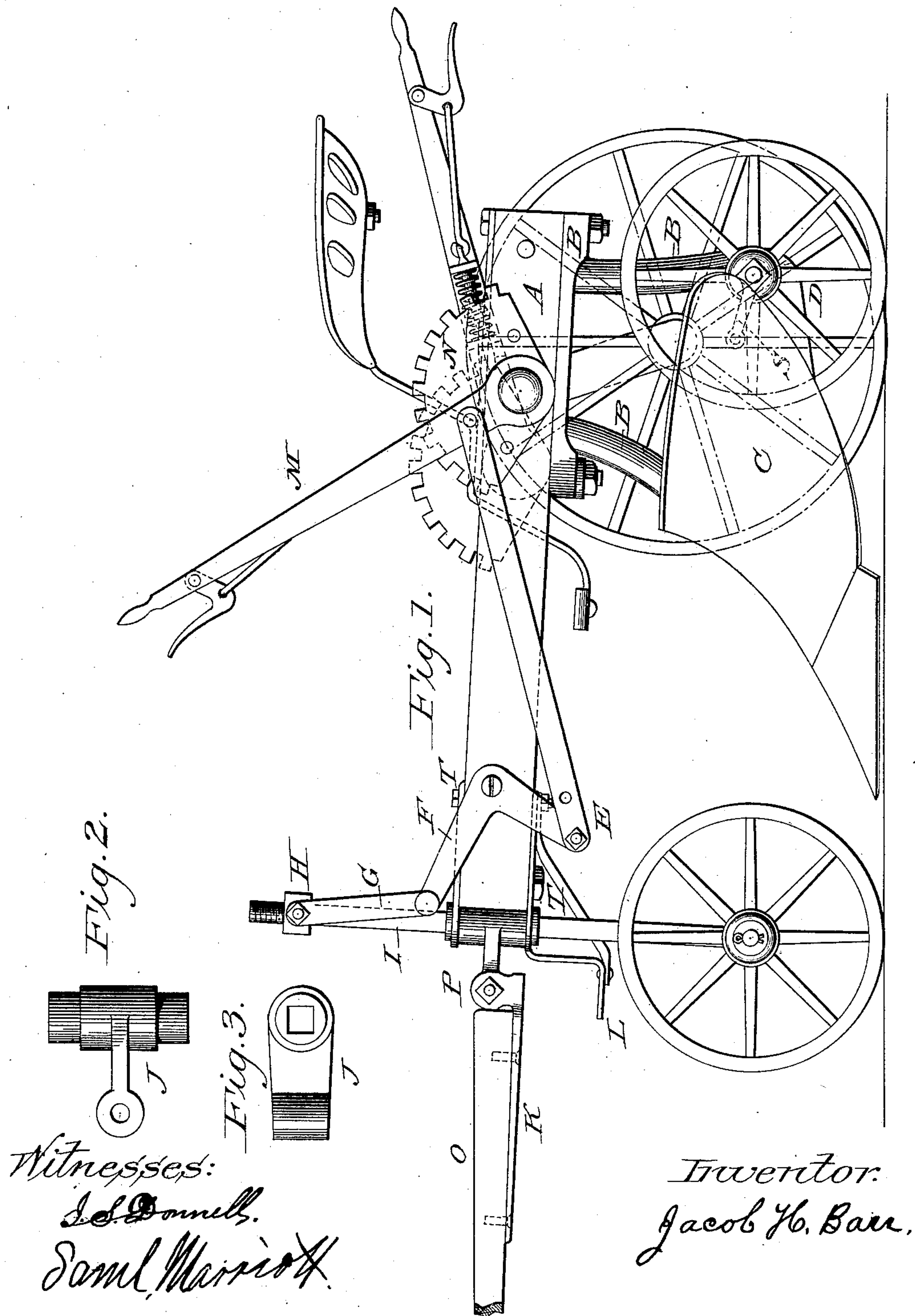
(No Model.)

J. H. BARR.

SULKY PLOW.

No. 387,484.

Patented Aug. 7, 1888.



N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

JACOB H. BARR, OF MANSFIELD, OHIO.

SULKY-PLOW.

SPECIFICATION forming part of Letters Patent No. 387,484, dated August 7, 1888.

Application filed January 13, 1886. Serial No. 188,453. (No model.)

To all whom it may concern:

Be it known that I, JACOB HARRISON BARR, a citizen of the United States, residing at Mansfield, in the county of Richland and State of Ohio, have invented new and useful Improvements in Sulky-Plows, of which the following is a specification.

My invention relates to sulky-plows; and it consists in the construction of a standard that extends rearward along the landside to take and hold a spindle for the furrow-wheel, and in a combination of devices for operating a gage-wheel that can be adjusted to depth of furrow at any moment and turned by the tongue; also, in a hinge-connection between the tongue and beam, which will be more fully and clearly set forth, reference being had to the accompanying drawings.

Figure 1 is a side view of my sulky-plow, showing the rear portion of the standard and furrow-wheel with a brace from the end of the spindle to the mold-board, and a gage-wheel journaled on the square bar I, which slides through the hinge J, and is operated by the lever M, by means of the bar or connecting-rod E, crooked lever or elbow F, link G, and nut H, also the hinge between the tongue and beam. Fig. 2 is a side view of the hinge J. Fig. 3 is a top view of the same hinge.

The standard of my plow is constructed with a landside-base that extends rearward to hold a spindle for the furrow-wheel, and has the parts B B, that extend upward to a top piece, B, which is secured to the beam by two bolts. The furrow-wheel is placed between the mold-board and standard and turns on a hollow spindle which is set with its base end against the standard, as shown at D, and is held to the standard by a bolt which passes through the spindle and also secures one end of the brace S to the spindle and standard. The brace S is secured to the mold-board, and in combination with the spindle and bolt forms a brace between the standard and mold-board and a bearing for the furrow-wheel.

At the front end of the beam A is a double-pivot hinge-block, J, having two ends reduced in size for bearings, Fig. 2, and a square hole through it, Fig. 3. The other end is formed at right angles and has a round hole.

This hinge connects the tongue and beam by means of the plate K, having two lugs for the hinge, and plates T T'. The plate T' is turned downwardly, and the lower end is formed into a clevis, as at L. Through the plates T T' holes are made large enough to admit the reduced ends of the hinge J, and through the center the square bar I moves vertically. The bar I is turned at right angles near its lower end, and a spindle is formed on the end for the gage-wheel. The upper end is rounded, and has a thread cut on it for the nut H. The nut H has a pin on one edge for the link G, and is held in one position by the link when the tongue is turned to the right or left. The bar I is connected with the lever M by the link G, crooked lever F, and connecting rod or bar E. The lever M is formed with a disk at its lower end, having a face side that moves against the plate N, and is provided with a spring-pawl that engages the segmental rack N and a pin that takes the end of the connecting-bar E. The lever and plate are held to the beam by a bolt, and the lever pivots on this bolt.

It will be seen that when the lever is drawn back the force will be applied to the sliding bar I and the end of the beam A. The beam and point of the plow will be raised by forcing the bar I and gage-wheel down. This enables the operator to adjust the plow to depth of furrow at any moment and to raise the point of the plow over obstructions or to lift it entirely out of the ground and throw its weight upon the wheels.

Having described my sulky-plow fully and clearly, I desire to secure by Letters Patent the following claims:

1. In a sulky-plow, the combination, with the axle, plow-beam, and standard, of the lever M, connecting-links E G, bell-crank F, nut H, and adjustable wheel shank or bar I, substantially as shown and described.

2. In a sulky-plow, the combination, with the beam A and tongue O, of the hinge-block J, plates T T', adjustable bar I, and nut H, as and for the purpose set forth.

3. In a sulky-plow, the combination, with the beam A and tongue O, of the hinge-block J, plates T T', adjustable bar I, nut H, link G, crooked lever F, connecting-bar E, lever M,

and segmental rack N, substantially as described.

4. In combination with the plow-beam and tongue, the double hinge-block J, having a square aperture, and the squared wheel shank or bar I, substantially as shown and described.

5. In a sulky-plow, the combination, with the

beam A and tongue O, of the plate K, having lugs P P, hinge-block J, and plates T T, as and for the purpose set forth.

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Witnesses:

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