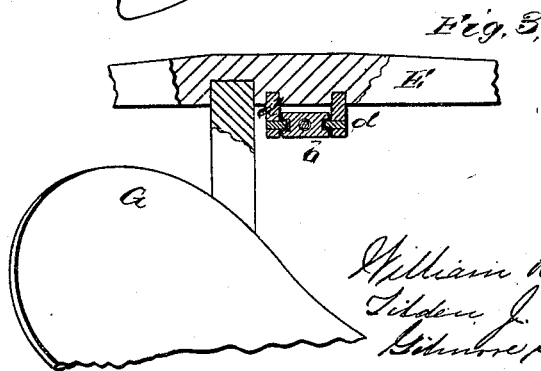
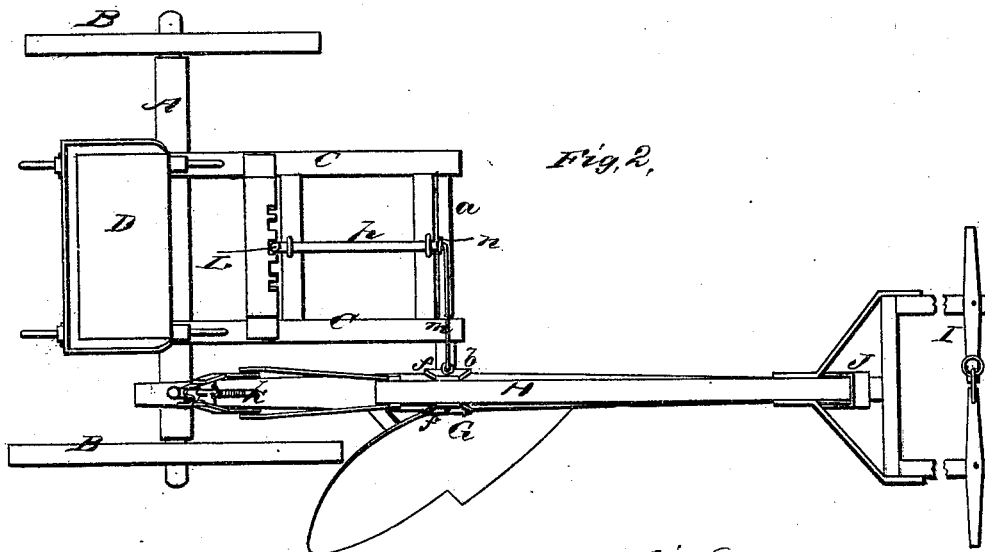
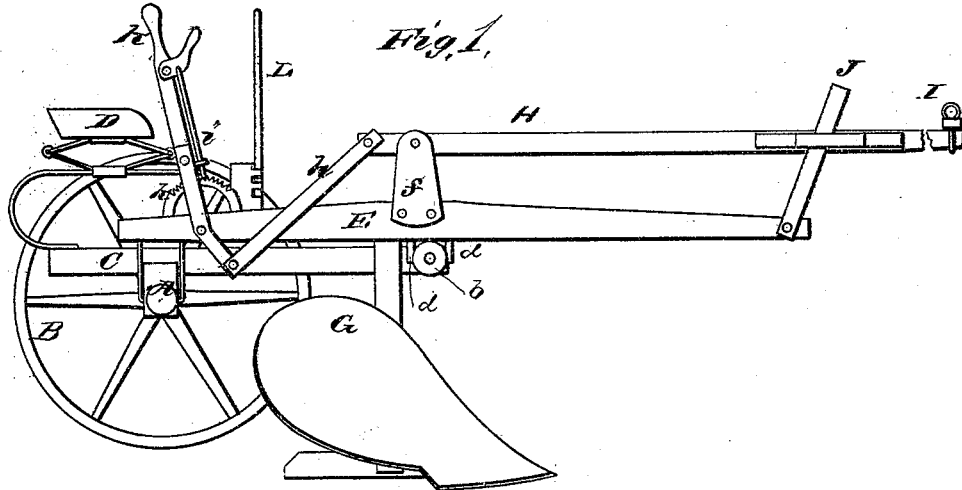


W. B. NEWMAN & T. J. WILKINSON.

FLOW.

No. 180,624.

Patented Aug. 1, 1876.



WITNESSES  
*C. B. Searle.*  
*J. J. Shubry.*

INVENTOR  
*William B. Newman &*  
*Tilden J. Wilkinson*  
*Edwards, Smith & Co.*  
ATTORNEYS

# UNITED STATES PATENT OFFICE.

WILLIAM B. NEWMAN AND TILDEN J. WILKINSON, OF WARRENSBURG, MO.

## IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **180,624**, dated August 1, 1876; application filed May 13, 1876.

*To all whom it may concern:*

Be it known that we, WM. B. NEWMAN and TILDEN J. WILKINSON, of Warrensburg, in the county of Johnson and State of Missouri, have invented a new and valuable Improvement in Sulky and Breaking Plows; and we 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 drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation of our sulky and breaking plow; and Fig. 2 is a plan view of the same. Fig. 3 is a detail view thereof.

The nature of our invention consists in the construction and arrangement of a sulky-plow, as will be hereinafter more fully set forth.

In the annexed drawings, A represents the axle with wheels B B and a frame, C, secured to the axle. This frame supports the driver's seat D in rear of the axle, as shown. Through the front end of the frame C passes a square shaft, *a*, parallel with the axle, said shaft being at one end outside of the frame provided with a T-shaped head, *b*, standing on a line with the draft. To this head the plow-beam E is pivoted by means of ears *d d* on its under side fitting against the ends of the head, and a bolt passing horizontally through them. G is the plow, attached to the beam E, which plow runs in front of the wheel—the right or left, according as a right or left hand plow is used. Above the joint of the beam are standards *ff* secured thereto, between the upper ends of which the tongue H is pivoted, the

front end of said tongue passing through a guide-loop, J, attached to the beam, and the tongue provided at its extreme front end with a three-horse neck-yoke, I. From the rear end of the tongue H extend straps *h h*, one on each side of the beam and below the same, and the lower ends of said straps attached to the lower end of a forked lever, K, which is pivoted to the beam, and held at any point desired by a ratchet, *k*, and pawl *i*, as shown. By these means the plow may be raised and lowered as required, to regulate the depth of plowing, and also raised entirely out of the ground.

From the upper end of the inner standard *f* extends a rod, *m*, to an arm, *n*, on a shaft, *p*, which is provided with a lever, L, and said lever held at any position in a suitable ratchet. By this means the plow can be tilted to the right or left, as required, the plow-beam turning on its pivot in the head *b*.

What we claim as new, and desire to secure by Letters Patent, is—

The combination of the plow-beam E with standards *ff* and guide-loop J, the pivoted tongue H, straps *h h*, forked lever K, and ratchet and pawl *k i*, as and for the purpose set forth.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

WILLIAM BUTLER NEWMAN.  
TILDEN JOSHUA WILKINSON.

Witnesses:

SAMUEL P. SPARKS,  
JOHN M. WRIGHT.