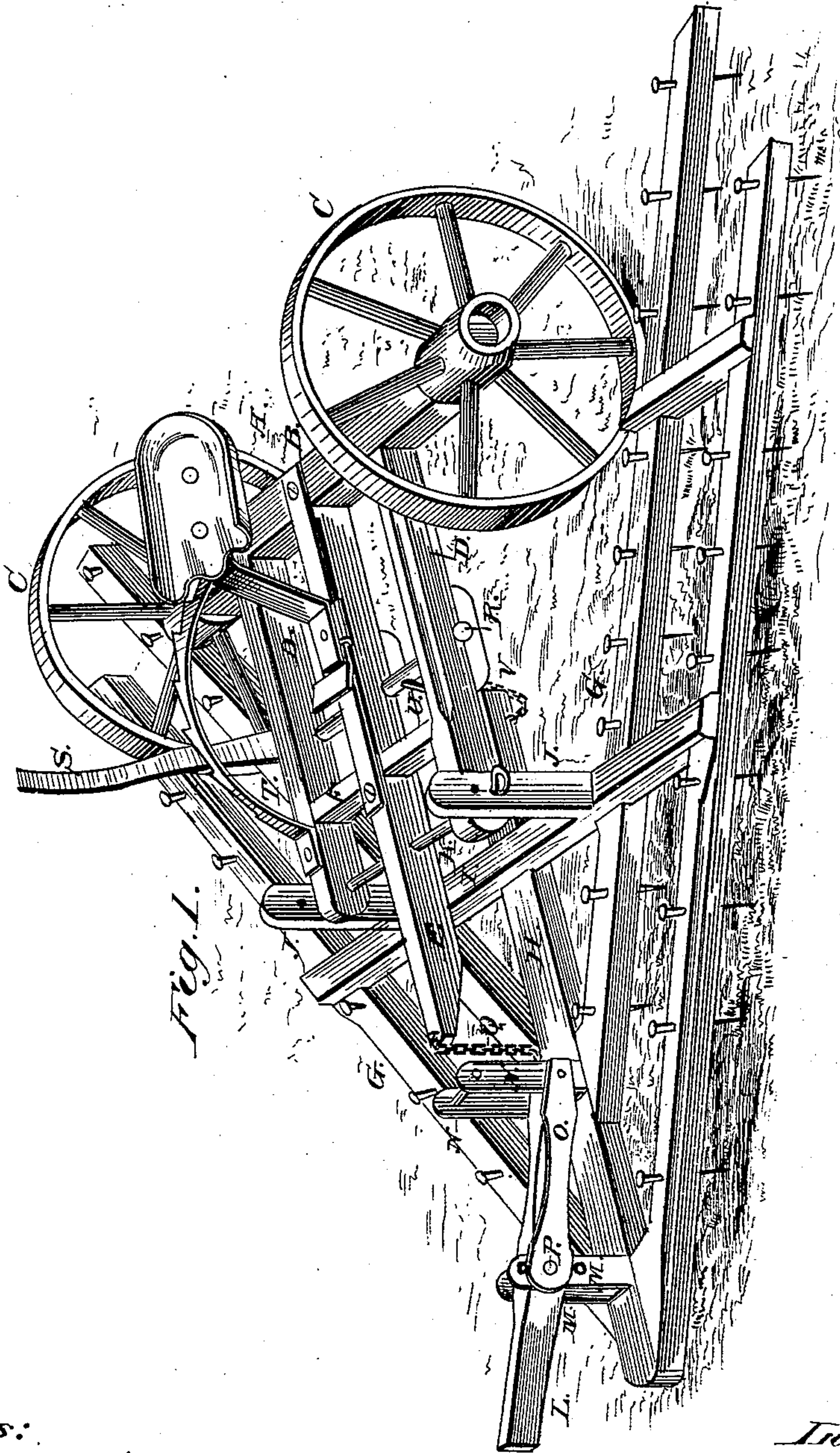


G. W. RILEY.  
Sulky-Harrow.

No. 215,774.

Patented May 27, 1879.



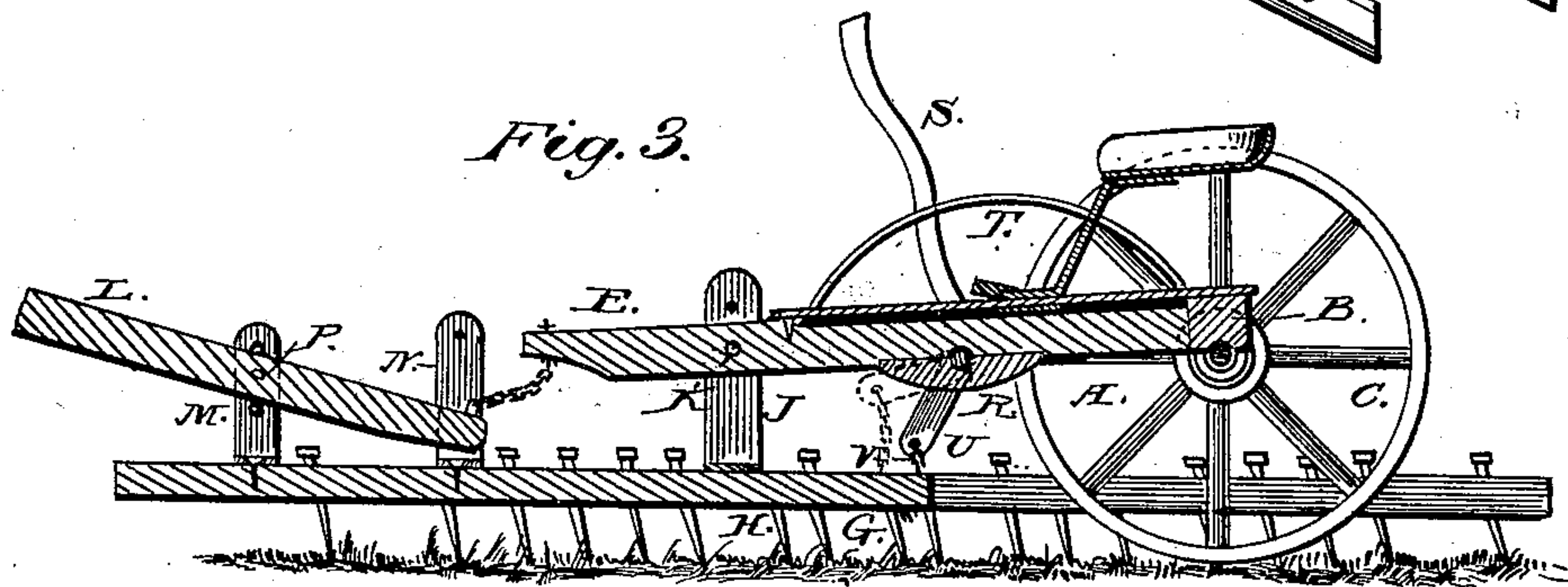
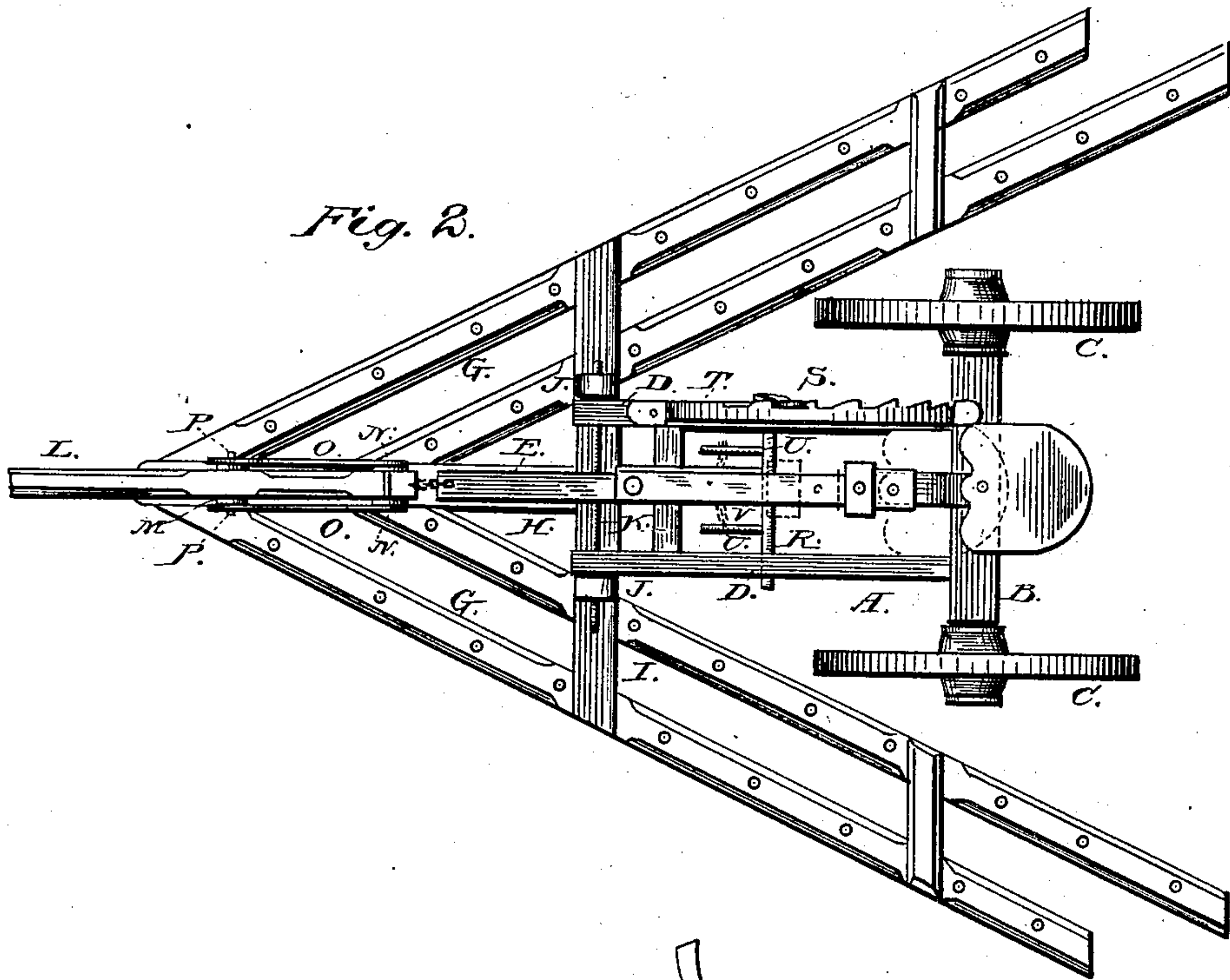
Witnesses:  
*And G. Dietrich*  
*J. R. Littell,*

Inventor:  
*George W. Riley,*  
BY *A. Snow & Co.*  
Attys.

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*Ad. G. Dietrich*  
*J. R. Littell,*

*George W. Riley,* Inventor.  
*C. A. Snow & Co.* Attys.



# UNITED STATES PATENT OFFICE.

GEORGE W. RILEY, OF FRANKTON, INDIANA.

## IMPROVEMENT IN SULKY-HARROWS.

Specification forming part of Letters Patent No. **215,774**, dated May 27, 1879; application filed April 17, 1879.

*To all whom it may concern:*

Be it known that I, GEORGE W. RILEY, of Frankton, in the county of Madison and State of Indiana, have invented certain new and useful Improvements in Sulky-Harrows; 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 same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view. Fig. 2 is a top view, and Fig. 3 is a longitudinal sectional view.

Corresponding parts in the several figures are denoted by like letters of reference.

This invention relates to sulky or riding harrows; and it consists in certain improvements in the construction of the same, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings, A represents the sulky, the frame of which consists of the axle B, supported upon wheels C C, and having forwardly-projecting frame-bars D D E, connected by a cross-piece, F.

G represents the harrow, the frame of which is triangular in shape, as shown, and provided with a central longitudinal beam, H, and a cross-bar, I. The latter is provided with two uprights, J J, between which the side bars D D of the sulky-frame are hinged or pivoted upon a rod, K, which, in order to provide for the adjustment vertically of the harrow, is made adjustable in any one of a series of perforations in said uprights.

The tongue L is pivoted between uprights M M, near the front of the harrow-frame, and its rear end slides between guides or uprights N N upon the beam H.

Braces O O connect the uprights M N, and the rod P, upon which the tongue is pivoted, is vertically adjustable, thus providing for the adjustability of the draft.

A chain, Q, connects the rear end of the tongue with the front end of the bar E of the sulky-frame.

R is a transverse shaft, mounted in bearings in the bars D D E of the sulky-frame. Said shaft is provided with an operating lever or handle, S, engaging a segmental ratchet, T, upon the side of the sulky-frame. The shaft is also provided with forwardly-projecting arms U U, connected by chains V V to the rear end of the longitudinal beam H of the harrow-frame.

From the foregoing description, and by reference to the drawings hereto annexed, the operation of my invention will be readily understood.

By raising the lever-handle S of shaft R the arms U of the latter are depressed, thus lowering the harrow for operation.

To raise the harrow for transportation, the operation is simply reversed. The tongue being pivoted, of course adapts itself to either operation.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The combination, with the sulky A, having shaft R, provided with arms U U and lever-handle S, and segmental ratchet T, of the harrow G, having beam H, connected by chains V V to the arms U U of shaft R, and tongue L, pivoted between uprights M M upon the harrow-frame, and having its rear end connected to the bar E of the sulky-frame by a chain, Q, substantially as and for the purpose herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 9th day of April, 1879.

GEORGE W. RILEY.

Witnesses:

FRANK PIERCE,  
MARTIN V. JONES.