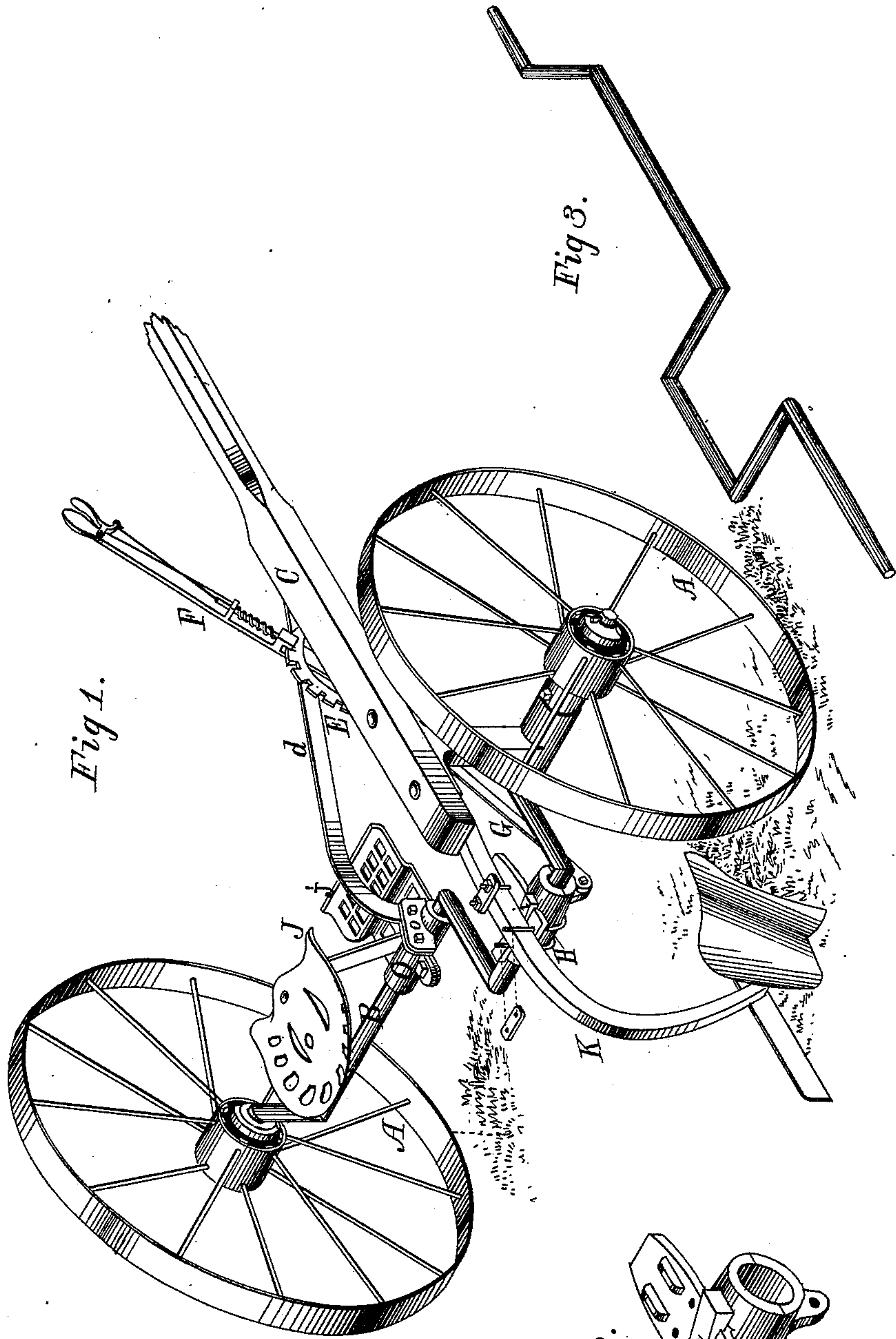


(No Model.)

S. GESLEY.  
Sulky Plow.

No. 229,816.

Patented July 13, 1880.



Attest  
A. Canbison  
Notary Public.

Fig. 2.  
S. Gesley  
Inventor.



# UNITED STATES PATENT OFFICE.

SABER GESLEY, OF BELOIT, WISCONSIN.

## SULKY-PLOW.

SPECIFICATION forming part of Letters Patent No. 229,816, dated July 13, 1880.

Application filed April 26, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, SABER GESLEY, a citizen of the United States, residing at the town of Beloit, in the county of Rock and State of Wisconsin, have invented certain new and useful Improvements in the Construction, Method of Arranging, and Manner of Operating Sulky-Plows, of which the following is a specification:

My invention relates to improvements in the construction, method of arranging or hanging, governing, and operating sulky-plows in which the axle of the sulky is eccentric in respect to a direct transverse line through the center of the hubs of the wheels when the plow is not at work, but not so when the plow is in operation, the axle being also formed entirely in one piece, the plow being journaled and suitably attached by appropriate mechanism to the main angle of the axle, the tongue of the machine being also pivoted to the axle by a vertical bearing, and the driver's seat being likewise pivoted thereto; and the object of my improvements is, first, to cheapen the cost of production; second, simplify the construction; and, third, to greatly increase the efficiency of the plow in the manner and quantity of work performed, as well as in convenience of construction, method of arranging, and manner of operating sulky-plows containing my invention. I attain these objects by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a detailed view, in perspective, of the entire machine. Fig. 2 is a view of the journal-box and clip detached, whereby the beam of the plow is secured to the main angle of the axle; and Fig. 3 is a view, in perspective, of the axle detached.

Similar letters refer to similar parts throughout the several views.

A A are the wheels, B the axle, and C the tongue, to the inner side of which is rigidly fixed the ratchet E, provided with the hand-lever F, having a spring-pawl, the said lever being centrally pivoted against the outer face of the ratchet to the tongue C. The lever F has a lifting-bar, G, which at its front end is pivoted to the lower end of the lever and at its rear end to a downward projection of the

journal-box H. The tongue C has a lateral brace, d, its forward end being firmly fixed to the tongue and its rear end being rigidly fixed to the journal-box O, in which the axle is allowed to vibrate. The driver's seat and step J j are securely fixed to the journal-box O, which is bolted to the rear end of the brace d, whereby the seat and step are supported in proper position. The plow-beam K is suitably fixed to the axle by means of the journal-box and clip H, having a laterally-sliding wedge, i, for leveling the same, all substantially as shown at Fig. 1 of the drawings, and which constitute the entire mechanism of the machine and the manner of constructing and operating it, which I will now explain in detail.

The axle B is constructed entire in one piece, from suitable solid metal or tubing, as may be most available, having its bearings properly turned or otherwise fitted, and the construction of the wheels will be plainly understood from the drawings without further description. The rear end of the tongue is supported directly upon the axle by a suitable vertical standard having its lower end journaled by means of a sleeve to the axle, allowing it to oscillate freely within said sleeve, all as shown in the drawings.

It will be seen that the driver's seat and step J j are also supported directly upon the axle by means of the journal-box O, and supported in proper position by means of the brace d, as shown and hereinbefore described.

The plow, by the beam K, is secured to the long angle of the axle B by means of the journal and clip H, as shown, and the plow is drawn in the ordinary manner by whiffletrees hitched or coupled to the front of the beam by a suitable clevis, and the width and depth of furrow is controlled, in the usual manner, by properly adjusting the clevis. The plow is raised and lowered by means of the lever F, ratchet E, and bar G, as shown in the drawings and hereinbefore more particularly described; and the plow may be put out of level and set a trifle more or less inclined to a greater depth and width of furrow by driving the wedge i to the right or left, called by farmers "winging the plow."

I am aware that various kinds of wheeled



vehicles have been and are constructed with metallic axles formed entirely in one piece; hence I do not claim such construction, broadly.

5 It will be seen that in my improved sulky-plow the axle and wheels have not any connecting devices save the plow journaled to the long angle or crank thereof by means of the box and clip H, having the wedge *i*, the former provided with the downwardly-projecting arm  
10 connected with the bar G, the vertical standard supporting the tongue C, and the seat and step J *j*, vertically supported upon the axle and journaled thereto by the box O. The plow is raised and lowered by turning the axle  
15 B by suitably manipulating the mechanism provided for that purpose, as shown and hereinbefore described. The weight of the driver and seat has no effect whatever in operating the machine.

20 The rear end of the bar G is pivoted or hinged to the downwardly-projecting arm of the box and clip H, the said box being loosely journaled to the axle, so as to rotate freely thereon when the plow is being raised or lowered, and which is accomplished by lifting or  
25 depressing the long angle or crank of the axle by means of the bar G, actuated by the lever F.

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

1. The axle B, having one long angle or crank, to which the plow K is attached, and a shorter angle or crank carrying the landside-wheel, the axle B being bent and constructed in one piece, in the form shown and described, whereby, in this peculiar form of construction  
35 and arrangement of the axle, the plow may be raised and the land-wheel lowered by slightly rotating the axle by means of the lever F, substantially as shown and herein particularly specified. 40

2. The box and clip H, having the downwardly-projecting arm, in combination with the bar G, lever F, and ratchet E, substantially as and for the purpose set forth.

3. The plow and beam K, with the axle B  
45 and wheels A, to the long angle or crank of which axle the plow-beam K is journaled and secured by means of the box and clip H, in combination with the wedge *i*, downwardly-projecting arm of the box and clip H, bar  
50 G, lever F, and ratchet E, substantially as and for the purpose hereinbefore particularly described.

SABER GESLEY.

Attest:

C. O. TATTERSHALL,  
TORRIS GESLEY.