

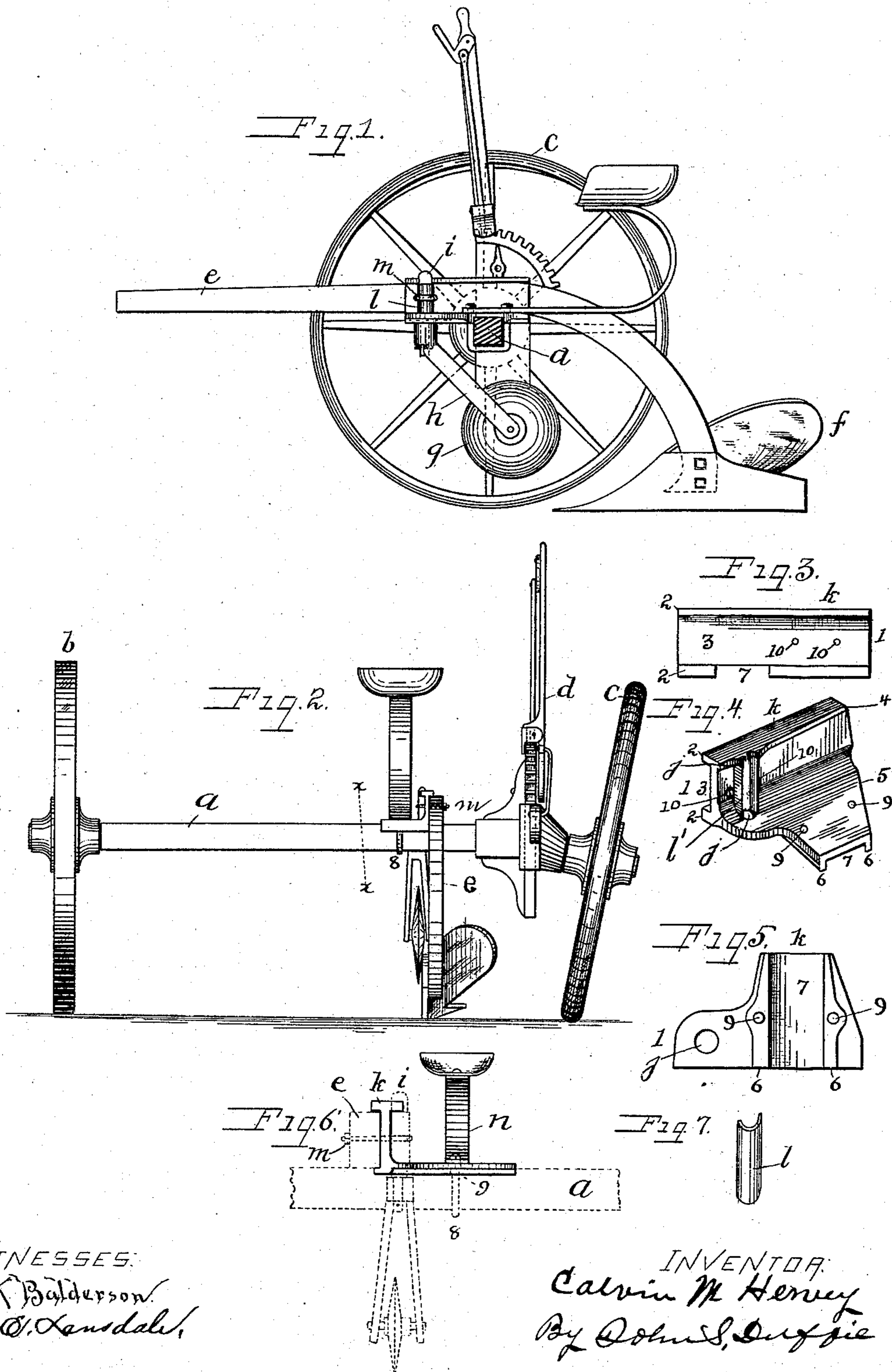
(No Model.)

C. M. HERVEY.

SULKY PLOW.

No. 406,733.

Patented July 9, 1889.



WITNESSES:

R. A. Balderson,
M. O. Lansdale,

INVENTOR:
Calvin M. Hervey
By John S. Duggie

ATTORNEY.

UNITED STATES PATENT OFFICE.

CALVIN M. HERVEY, OF FULTON, ARKANSAS.

SULKY-PLOW.

SPECIFICATION forming part of Letters Patent No. 406,733, dated July 9, 1889.

Application filed April 4, 1889. Serial No. 305,913. (No model.)

To all whom it may concern:

Be it known that I, CALVIN M. HERVEY, a citizen of the United States, residing at Fulton, in the county of Hempstead and State of Arkansas, have invented certain new and useful Improvements in Sulky-Plows; and I do 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 the letters and figures of reference marked thereon, which form a part of this specification.

My invention has relation to sulky-plows; and it consists in the novel construction and arrangement of its parts hereinafter described in this specification and set out in the accompanying claims.

In the accompanying drawings, Figure 1 is a side elevation of my sulky-plow, with the left-hand wheel and the axle cut away at the line *x x*, Fig. 2. Fig. 2 is a rear view of my invention. Figs. 3, 4, 5, 6, and 7 are detail views.

The object of my invention is to bring about in sulky-plows durability, simplicity, and cheapness—durability, in that it is all made of durable metal, and is not liable to rot, wear, shrink, crack, or break; simplicity, in that it is composed of so few pieces and pieces so constructed that it may be put together by very few bolts and nuts, the axle, the plow-beam, the seat, and the center-wheel sleeve all being firmly secured in place by means of the clamping-block and two U-bolts and nuts; cheapness, in that because of its few pieces it can be manufactured and sold at a price below most sulky-plows before invented and put upon the market, and at a price that brings it within the reach of small planters.

I do not claim anything for the wheels nor lifting apparatus. My claims are on the cast-iron combination-block and its combinations.

My invention is described as follows:

To an ordinary axle *a*, made square, are attached wheels *b c*. The right-hand wheel *c* is so set on its end of the axle that its lower periphery stands in, the object of which is well known to planters. The right-hand end

of the axle is provided with a lifting device *d*, to lift the plow out of the ground when desired.

I do not claim anything new for the lifting device. I do not confine myself to the particular one here illustrated, but in the manufacture of my plow shall use any lifting device which I find suits my purposes better.

To the plow-beam *e* is attached a turning-plow or such other plow-point as may be proper from time to time to use. In front of said plow-point *f* runs a cutting-wheel *g*, borne in a brace *h*, the upper and forward end of which is rigidly secured to the pin *i*, which is pivoted in the half-sleeve *l*, secured to the other half-sleeve *l'* of the cast-iron combination brace-block *k* by means of the U-bolt *m*, secured in place by nuts; or I may dispense with the half-sleeve *l* and have U-bolt *m* to clamp the said pin *i* tightly on the half-sleeve *l'*, in which case the brace *h* would be pivoted to the lower end of said pin *i*.

My cast-iron combination brace-block is illustrated by Figs. 3, 4, 5, and 6, 1 designating the front end of the same. On the right-hand side of said combination-block are two flanges 2, leaving a groove or depression 3, in which the beam *e* neatly fits and is secured.

On the left-hand side is a flange 4, and on the same side and from the lower edge of said block there is an extension 5, leaving the perforations *j* and 9 9. From the lower face of said extension 5 extend two flanges 6 6, leaving a groove 7, in which the axle *a* exactly fits and is secured, and on the face of the block is a half-sleeve *l'*, its inner surface being flush with the face of the perforation *j*.

In putting the plow together the axle is fitted in the groove 7. The U-bolt 8 is then put astride the said axle up through the perforations 9 and block *k*, and then through the perforated end of the seat-spring *n* and secured by nuts. The beam *e* is then placed across the axle and in slot 3. The half-sleeve *l* is then put on the half-sleeve *l'*, and the U-bolt *m* is then put astride the said half-sleeve *l*, through the perforations 10 in the block *k* and corresponding perforations in the beam *e*, and secured by nuts. Thus it will be seen that by means of this cast-iron combination

brace-block *k* the axle *a*, the beam *e*, the spring-seat *n*, and the half-sleeve *l* are all rigidly and securely held in place by means of said block to U-bolts and their nuts.

5 Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the brace-block *k*, having the groove 3, flange 4, extension 5, 10 having the groove 7 and perforations *j* and 9, and the center piece having the perforations 10 and the half-sleeve *l'*, with axle *a*, fitting in said groove 7, seat-spring *n*, fitting on the upper face of said extension, U-bolt 8 and 15 nuts binding the whole together, beam *e*, fitting in slot 3, half-sleeve *l*, fitting on half-sleeve *l'*, and U-bolt *m* and nuts, binding the whole together, substantially as shown and described.

2. The cast-iron combination-block pro- 20 vided with the flanges 2 and groove 3, flange 4, extension 5, having the flanges 6, groove 7, perforations *j* and 9, and the center piece having the perforations 10 and half-sleeve *l'*, said block adapted to combine with and hold 25 in place the axle *a*, seat-spring *n*, beam *e*, and half-sleeve *l* or pin *i*, in conjunction with the U-bolts *m* and 8, all substantially as shown and described.

In testimony whereof I affix my signature in 30 presence of two witnesses.

CALVIN M. HERVEY.

Witnesses:

ROBERT A. BALDERSON,

MARY E. LANSDALE.