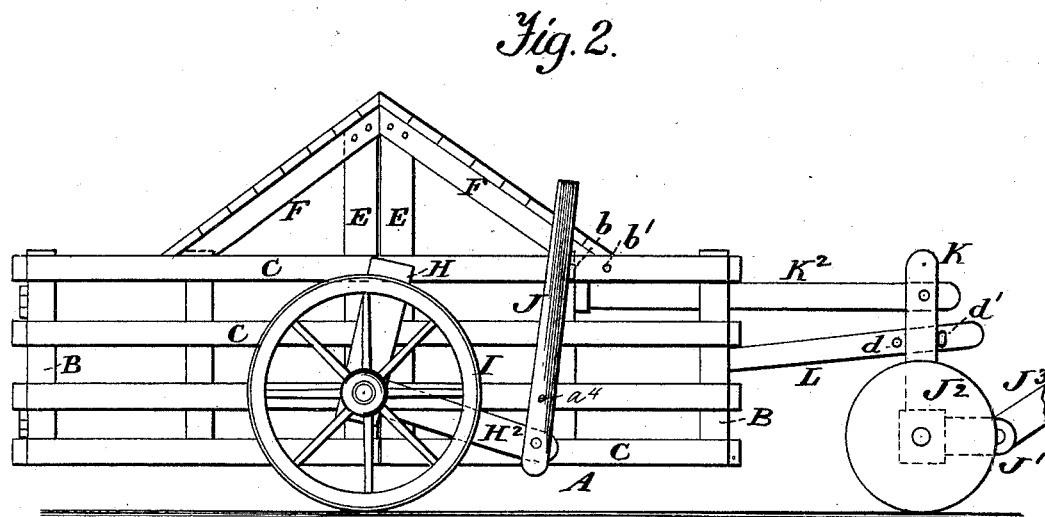
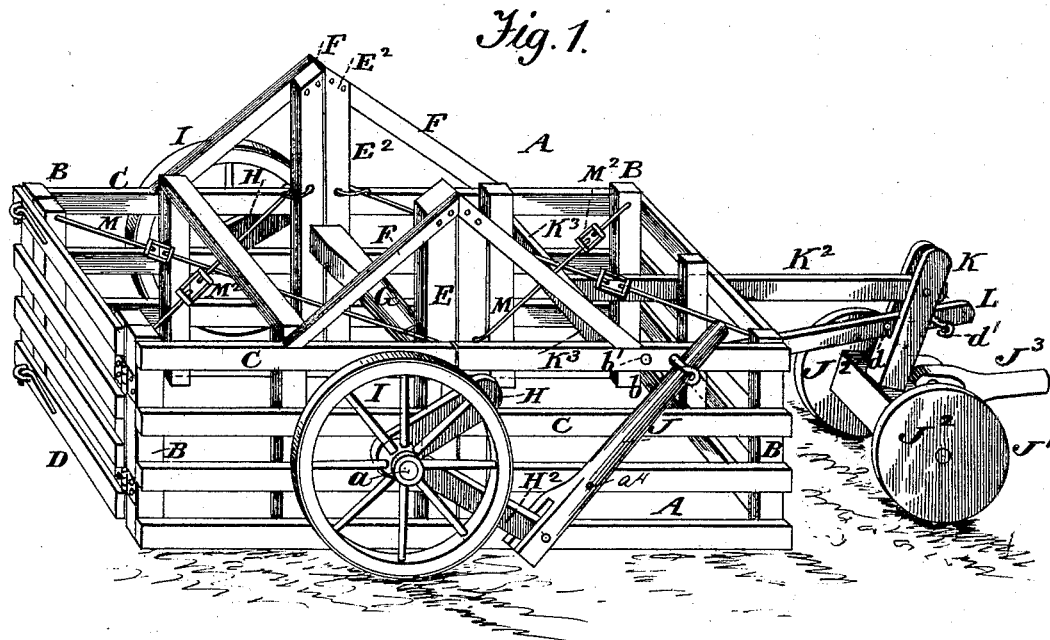


(No Model.)

D. DUCKWORTH.  
PORTABLE PEN FOR ANIMALS.

No. 418,313.

Patented Dec. 31, 1889.



*Witnesses.*  
A. Ruppert,  
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by Franklin H. Hong

# UNITED STATES PATENT OFFICE.

DAVID DUCKWORTH, OF NEW LISBON, WISCONSIN.

## PORTABLE PEN FOR ANIMALS.

SPECIFICATION forming part of Letters Patent No. 418,313, dated December 31, 1889.

Application filed April 12, 1889. Serial No. 306,927. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID DUCKWORTH, a citizen of the United States, residing at New Lisbon, in the county of Juneau and State of Wisconsin, have invented certain new and useful Improvements in Portable Pens for Animals; 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 of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in portable pastures or pens for pigs, sheep, and other animals; and it has for its object to generally improve upon the construction of this class of devices, and to provide a simple, cheaply-constructed, and durable inclosure so constructed as to admit of its being readily moved from place to place when desired, and when in position will rest securely upon the ground.

To these ends, and to such others as the invention may pertain, the same consists in the peculiar combinations and in the novel construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then specifically defined in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, like letters of reference indicating the same parts throughout the several views, and in which drawings—

Figure 1 is a perspective view of a portable pasture constructed in accordance with my invention. Fig. 2 is a side view of the same, in which view the pasture is shown as raised upon its wheels and in readiness for moving.

Reference now being had to the details of the drawings by letter, A designates the fence or walls of the inclosure, which may be of any convenient or desirable size, and is preferably rectangular in form. The fence is made in the usual form, and consists of a series of uprights B, to which are nailed or otherwise suitably secured the rails or boards C. One of the end sections, as D, is provided with a

gate, and in the present instance I have shown the entire end of the pasture as hinged at one of its ends to one of the corner posts or uprights and its opposite end provided with suitable hooks adapted to engage staples in the outer face of the opposite corner-post, thus forming a suitable and convenient gate to the inclosure.

E and E<sup>2</sup> are uprights arranged upon opposite sides of the inclosure at a point substantially in its longitudinal center. These uprights are secured to the side rails of the fence and are provided with diagonal braces F, extending from the tops of the said uprights to the next adjacent posts or uprights of the fence upon either side. While the principal office of these braces is to strengthen the structure, it is at once evident that they serve as rafters to support a roof, as shown in Fig. 2, to protect the animals from the sun or from the effects of storms.

G is a transverse shaft suitably journaled near its ends in openings formed for the purpose within the uprights E and E<sup>2</sup>, and having secured to its extreme ends, which project a short distance beyond the outer face of the inclosure, bell-crank arms or levers H, the free end of one of which is pivotally connected to the lever J, and at the angles of said bell-crank levers are the stub-shafts a, which carry the wheels I.

J is a lever pivoted at a point between its ends, as at a<sup>4</sup>, to one of the sides of the inclosure, and having pivotal connection at its lower end with the free end of the link H<sup>2</sup>. It will be readily seen that by this construction the shaft G may be turned by simply moving the operating-lever J, and that by such revolution of the shaft the wheels I may be raised or lowered as desired.

In order to secure the wheels in their adjusted position, a locking-pin b, adapted to be fitted within holes b' in the upper rail of the fence, is provided.

J' is a truck of ordinary construction, provided with wheels J<sup>2</sup> and pole or handle J<sup>3</sup>, and K is an upright rising from the axle of said truck at a point between the wheels. The upper portion of the upright K is bifurcated, as shown, and within this bifurcation is pivotally attached one end of the bar or

timber K<sup>2</sup>, the opposite end of which bar is securely attached to the timber K<sup>3</sup> within the inclosure.

L is a timber, one end of which is secured  
5 to one of the posts or uprights of the end of the inclosure, while its free end is passed through the bifurcated portion of the upright K, and is provided with a series of holes *d*.  
10 By this construction it will be readily understood that the wheels of the truck J' may be readily raised from the ground or lowered by simply swinging the lower end of the standard K, which is attached to the axle of the truck, backward or forward, and the said  
15 wheels will be held in their adjusted position by simply passing a locking-pin *d'* through one of the holes *d* in the timber L.

The operation is simple and will be readily understood from the foregoing description.

20 The structure may be greatly strengthened by the addition of diagonal brace-rods M, which are provided with suitable turn-buckles M<sup>2</sup> for regulating the tension of the rods, as is common in constructions of this  
25 character.

Having thus described my invention, what

I claim to be new, and desire to secure by Letters Patent, is—

1. The combination, with the fence constituting the inclosure, of the transverse shaft 30 G, the bell-crank levers H H<sup>2</sup> on said shaft and carrying stub-axles, the wheels on said stub-axles, and the lever J, pivoted to said fence and pivotally connected at one end to one end of one of the arms of one of the bell- 35 crank levers, substantially as and for the purpose specified.

2. The combination, with the fence constituting the inclosure, and the vertically-adjustable wheels I, for supporting said fence, 40 of the longitudinal timber K<sup>2</sup>, the bifurcated upright K, pivotally connected to the forward end of the timber K<sup>2</sup>, the truck J', the timber L, and the locking-pin *d'*, all arranged and operating substantially as and for the 45 purpose specified.

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

DAVID DUCKWORTH.

Witnesses:

J. J. HUGHES,

W. G. BEEBE.