

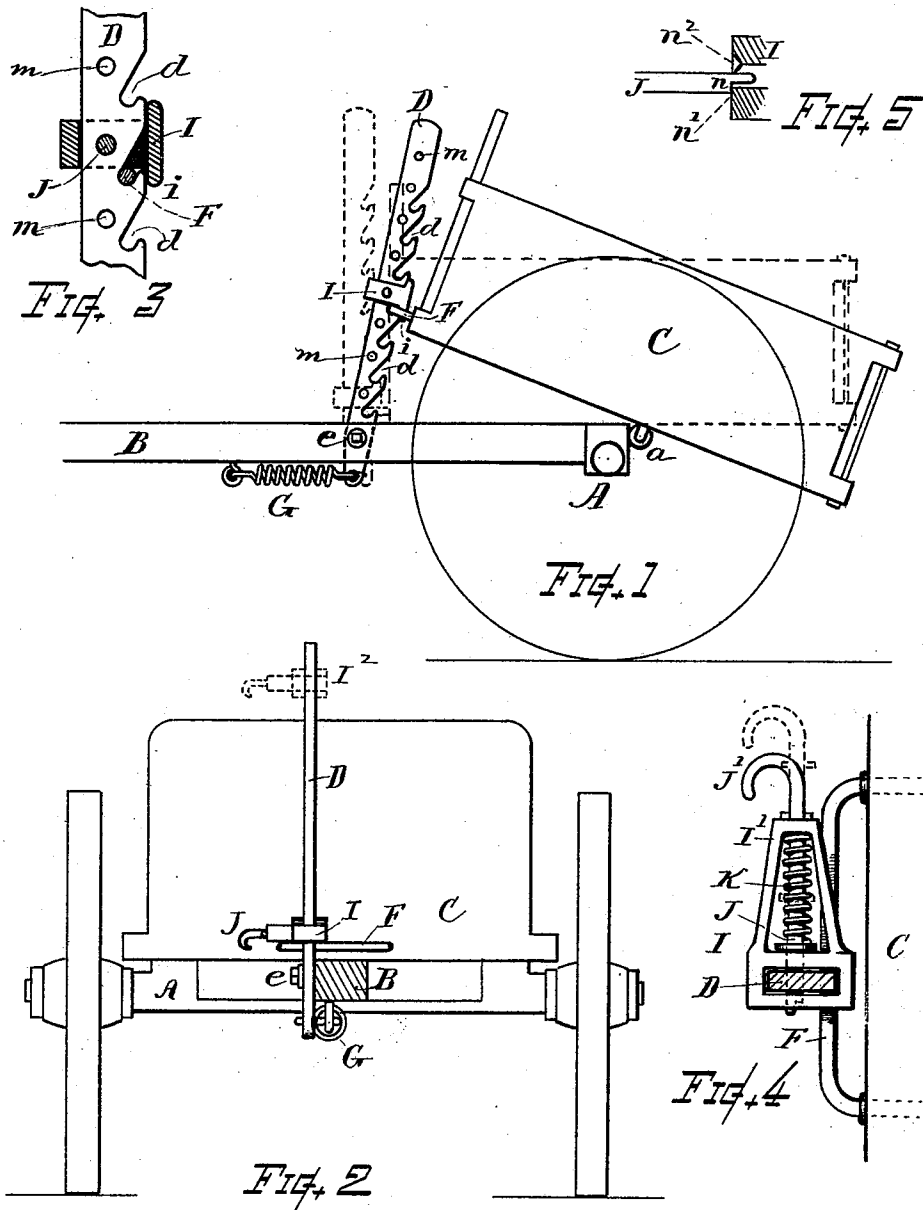
(No Model.)

C. P. McCLANATHAN.

COMBINED HOLDER AND SUPPORT FOR TIP CARTS.

No. 513,132.

Patented Jan. 23, 1894.



Witnesses

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COMBINED HOLDER AND SUPPORT FOR TIP-CARTS.

SPECIFICATION forming part of Letters Patent No. 513,132, dated January 23, 1894.

Application filed September 13, 1893. Serial No. 485,396. (No model.)

To all whom it may concern:

Be it known that I, CHARLES P. McCLANATHAN, a citizen of the United States, residing at Oakham, in the county of Worcester and State of Massachusetts, have invented a new and useful Combined Holder and Support for Tip-Carts, of which the following, together with the accompanying drawings, is a specification sufficiently full, clear, and exact to enable persons skilled in the art to which this invention appertains to make and use the same.

The object of my invention is to provide a convenient and efficient means for confining and sustaining the forward end of the cart-body at different positions of tilted inclination, and for holding the body down when at its normal level; also, to provide a simple locking appliance for securing and retaining the parts at positions of adjustment, as hereinafter fully set forth. These objects I attain by the mechanism illustrated in the drawings, wherein—

Figure 1 is a side view showing my combined holder and support as applied to a tip-cart. Fig. 2 is a front view of the same. Fig. 3 is a section of the locking device. Fig. 4 is a plan view of the locking device, and Fig. 5 shows a shape for the locking-bolt point.

Referring to parts, A denotes the axle, B the tongue, and C the tilting cart-body, pivoted at *a*; which parts can all be of the ordinary well known construction.

D indicates an upwardly projecting bar or supporter pivoted at or near its lower end to the tongue B at a position just forward of the end of the body, as at *e*, and extending upward to a sufficient height to accommodate the tilting action of the body. The rear edge of said bar is provided with a series of ratchets, upwardly directed notches or recesses *d*, adapted for receiving the body-iron F, which latter preferably consists of a transversely disposed horizontal rod having its ends rigidly secured in the front transom of the cart-body and projecting therefrom in the form of a loop, such as indicated in Fig. 4. A series of holes *m* is formed through the bar as shown. The lower end of the support-bar extends below the pivot *e* and a spring G is connected therewith; the action of which spring tends to swing the upper end of the support-

bar backward toward the cart-body. The spring can be arranged in any suitable manner for swinging backward the top of the bar. In the present instance a coiled spring is shown, but if desired a flat spring can be employed, and connected with the tongue and the upper part of the support-bar, or in any convenient manner.

I indicates an adjustable locking device, which consists of a slide-block arranged upon the bar D, and having an end or lip *i* that extends over and confines the body-iron F within the recess *d* in the manner indicated in Fig. 3. Said slide-block carries a locking bolt or pin J, supported in a projecting guide I' on the side thereof, and a spring K is combined with said locking-bolt for pressing it forward and retaining it in engagement in one of the series of holes *m* formed through the supporting-bar, as illustrated. The outer end of the lock-bolt is provided with a hook or handle J', while its inner end is best fitted with an off-set or shoulder *n*, so that when the bolt J is drawn out the shoulder can be caught onto the angle or edge *n'* of its opening (see Fig. 5) and thus retained with its spring compressed, leaving the slide free to be moved up and down on the support-bar as desired; then by throwing the shoulder *n* off from the angle *n'* (which can be done by simply rotating the bolt) the bolt will be shot through the hole or opening *m* by the expansion of its spring. The hole in the slide-block may be beveled at one side, as at *n²*, to insure the release of the bolt when rotated, as the shoulder *n* cannot hold on the beveled surface.

The operation is as follows: When the cart-body is at its normal level, as indicated by dotted lines Fig. 1, the locking device is dropped down to its lowest position, and confines the body-iron in the lower notch or recess of the-bar D. Then when it is desired to tilt the cart body the bolt J is drawn out and the slide I moved upward to the position indicated by dotted lines I² Fig. 2 the cart-body can be tilted as desired. In case the strength of the person tilting the body is not sufficient to throw it completely over at the first lift, the body-iron will be caught by a notch at the bar D (which is swung back by the spring) and there sustained, giving the attendant opportunity to renew his hold for

the further tilting. In case it is desired to use the cart at partially tilted position, as is sometimes desirable in farm work, the forward end of the cart-body may be confined or locked at any notch on the bar by means of the slide-block locking devices, as illustrated by full lines in Fig. 1.

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

1. The combination, with the tongue and body in a tip-cart, of a backwardly and forwardly swinging support-bar pivoted to the tongue and provided with a series of ratchets or notches along its edge, a body-iron fixed to the front end of the cart-body and adapted for engaging said notches, and a spring that normally swings said support-bar toward the cart-body, as and for the purposes set forth.

2. In a supporter and holder for tip-carts, the locking device consisting of the slide-block having the spring-pressed bolt arranged therein, in combination with the sup-

port-bar provided with holes for receiving said bolt, and recesses for receiving the body-iron, as set forth.

3. A support and holder for tip-carts, comprising the upwardly projecting pivoted bar having a series of holes therethrough, and a series of recesses along its edge, a spring adapted to swing said bar backward, the body-iron for engaging the recesses in said bar, a block or member arranged to slide on said bar, having a lip for confining the body-iron within the recess, and carrying a spring-pressed bolt that engages the hole in the bar, substantially as described; said parts adapted for operation in combination with the cart-tongue and tilting cart-body, as set forth.

Witness my hand this 9th day of September, A. D. 1893.

CHARLES P. McCLANATHAN.

Witnesses:

EDWIN C. TRAVERS,
CLINTON C. COOK.