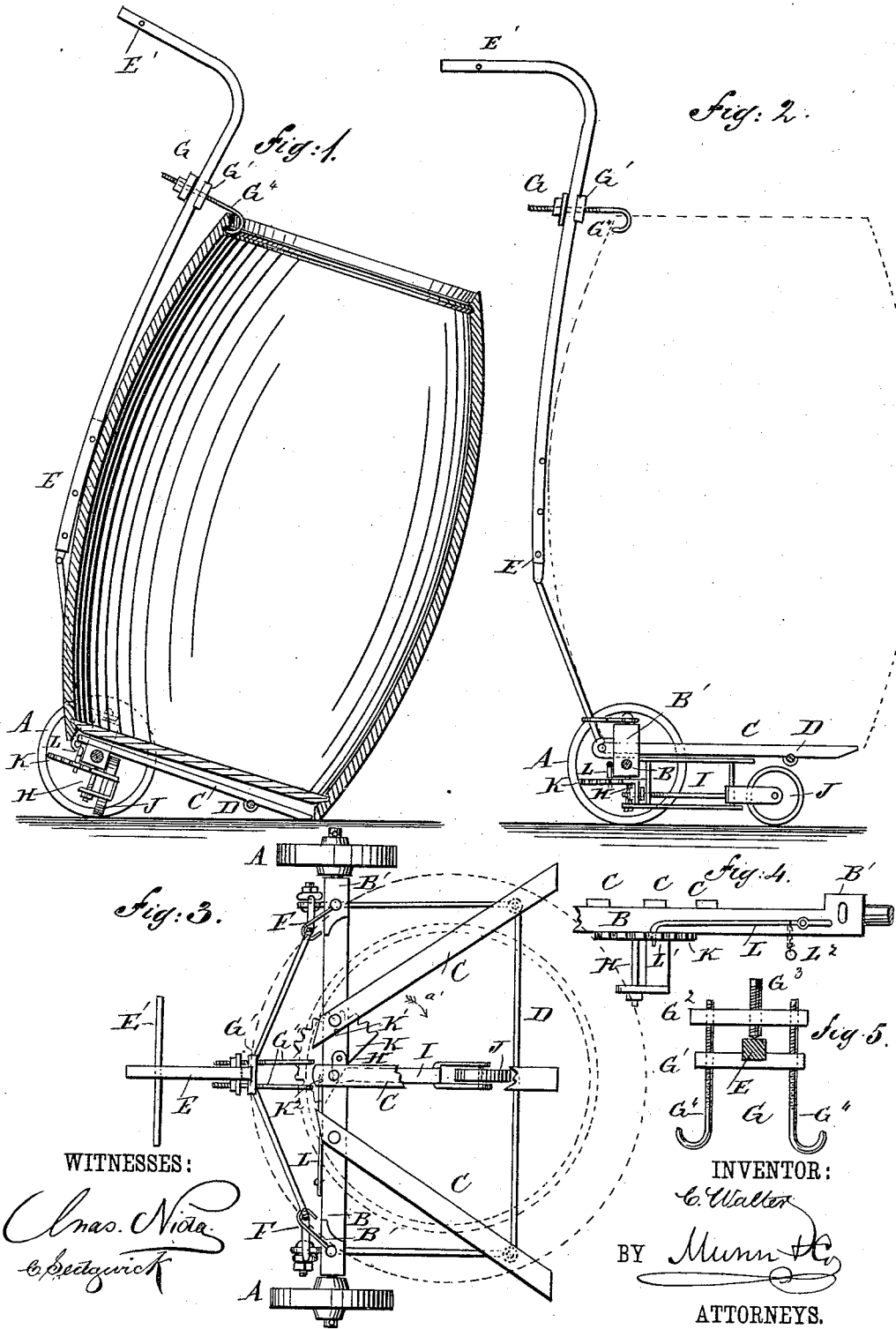


(No Model.)

C. WALTER.
HAND TRUCK.

No. 345,090.

Patented July 6, 1886.



UNITED STATES PATENT OFFICE.

CHARLES WALTER, OF BROOKLYN, NEW YORK.

HAND-TRUCK.

SPECIFICATION forming part of Letters Patent No. 345,090, dated July 6, 1886.

Application filed May 28, 1886. Serial No. 203,546. (No model.)

To all whom it may concern:

Be it known that I, CHARLES WALTER, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Hand-Truck, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved hand-truck which can be easily transformed from a two-wheeled truck into a three-wheeled truck, and which is especially adapted for household purposes.

The invention consists of a truck provided with a stationary axle on which are mounted two wheels of a swinging frame carrying a third wheel of a device for holding the swinging frame in position, and of a tongue provided with an adjustable holder.

The invention also consists of various parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional elevation of my improvement. Fig. 2 is a side elevation of the same. Fig. 3 is a plan view of the same, parts being broken out. Fig. 4 is a face view of the swinging frame-locking device. Fig. 5 is a view of the adjustable holder on the tongue.

On the wheels A is mounted the axle B, carrying the diverging bars C, re-enforced by the frame D and beveled on their outer ends. The axle is provided near each end with two projecting lugs, B', curved on their inner ends. The forked lower end of the tongue E is pivoted to the axle B on its front end, and is bent at its upper end at right angles, carrying a handle, E', near the outer end. The tongue E can be used horizontally or can be locked into an upright position, as shown in the figures, by the hooks F, pivoted to the top of the projections B' on the axle B, and engaging the lower forked end of the tongue E. On the tongue E is placed the adjustable holder G, (shown in detail in Fig. 5,) consisting of the notched plate G', resting against the tongue E, the plate G'', through which screws the set-screw G³, resting against the square tongue E, and the screw-threaded hooks G⁴ screwing in the plates G'

and G². On the vertical spindle H, secured in the middle of the axle B, is hung a frame, I, carrying on its outer end a truck-wheel, J, and provided with a notched disk, K, having two apertures, K' and K². The lever L, pivoted to the front end of the axle B, is provided with the downwardly-extending lug L', adapted to engage with either of the apertures K' or K² of the notched disk K. A chain, L², is attached to the lever L by which the same can be raised.

The operation is as follows: The truck can be used as a two-wheeler, as shown in Fig. 1, by engaging the lever L with the aperture K' of the disk K, which holds the frame I and its wheel J in a locked position at the side of the axle B, the wheel being held above the ground or floor while the outer beveled ends of the diverging bars C rest on the same. It will be seen that in this position the operator can slide the barrel, for instance, easily upon the bars C, so that part of the barrel rests on the inner ends of the bars C directly above the axle B, while part of the lower head of the barrel rests on the outer ends of the two outside bars C. The upper head of the barrel can then be held securely by the adjustable hooks G⁴, which are placed in position by moving the plates G' and G² up or down, and then securing the same to the tongue by means of the set-screw G³. The barrel is thus securely locked at the top and bottom to the truck. The third wheel, J, cannot be brought into active position, if desired, by disengaging the lever L from the notch K', and by then turning the disk K in the direction of the arrow a' until the lug L' of the lever L drops into the aperture K², so that the frame I and its wheel J assume the position shown in Figs. 2 and 3—that is, at right angles to the axle B. The barrel is then on a three-wheeled truck, which can be moved conveniently with its load either on a level or up and down stairs, if necessary, as the load remains firm upon the truck.

The truck can be used either with its two wheels or with its three wheels for various purposes, and the tongue E can be used in a vertical or horizontal position, as may be deemed necessary.

Having thus fully described my invention, I

claim as new and desire to secure by Letters Patent—

1. In a hand-truck, the combination of an axle mounted on two wheels, with a swinging frame pivoted on the said axle, and carrying a third wheel, substantially as shown and described.

2. In a hand-truck, the combination of an axle mounted on two wheels, with a swinging frame pivoted on the said axle, a third wheel mounted on the said swinging frame, and a device for locking the said frame in position, substantially as shown and described.

3. In a hand-truck, the combination of an axle mounted on two wheels and diverging arms attached to the said axle, with a tongue pivoted to the said axle, and hooks also pivoted to the axle and engaging with the tongue, substantially as shown and described.

4. In a hand-truck, the combination of an axle mounted on two wheels, diverging arms re-enforced by a frame attached to the said axle, with a tongue pivoted to the said axle, and adjustable hooks screwed on two plates held adjustably on the tongue, substantially as shown and described.

5. In a hand-truck, the axle B, mounted on

the wheels A, the projecting lug B', and the diverging arms C, re-enforced by the frame D, in combination with the swinging frame I, the truck-wheel J, mounted on the same, the notched disk K, having the apertures K' and K², and attached to the swinging frame I, and the lever L, engaging with the said apertures K' and K² in the disk K, substantially as here- in shown and described.

6. In a hand-truck, the axle B, having the projections B' and mounted on the wheels A, the diverging arms C, re-enforced by the frame D, the tongue E, pivoted to the axle B and held in an upright position by the hooks F, and the holder G, adjustable on the tongue E, in combination with the swinging frame I, the truck-wheel J, mounted on the same, the notched disk K, having apertures K' and K² and attached to the said swinging frame I, and the lever L, engaging with the said apertures K' and K², substantially as shown and described.

CHARLES WALTER.

Witnesses:

THEO. G. HOSTER,
C. SEDGWICK.