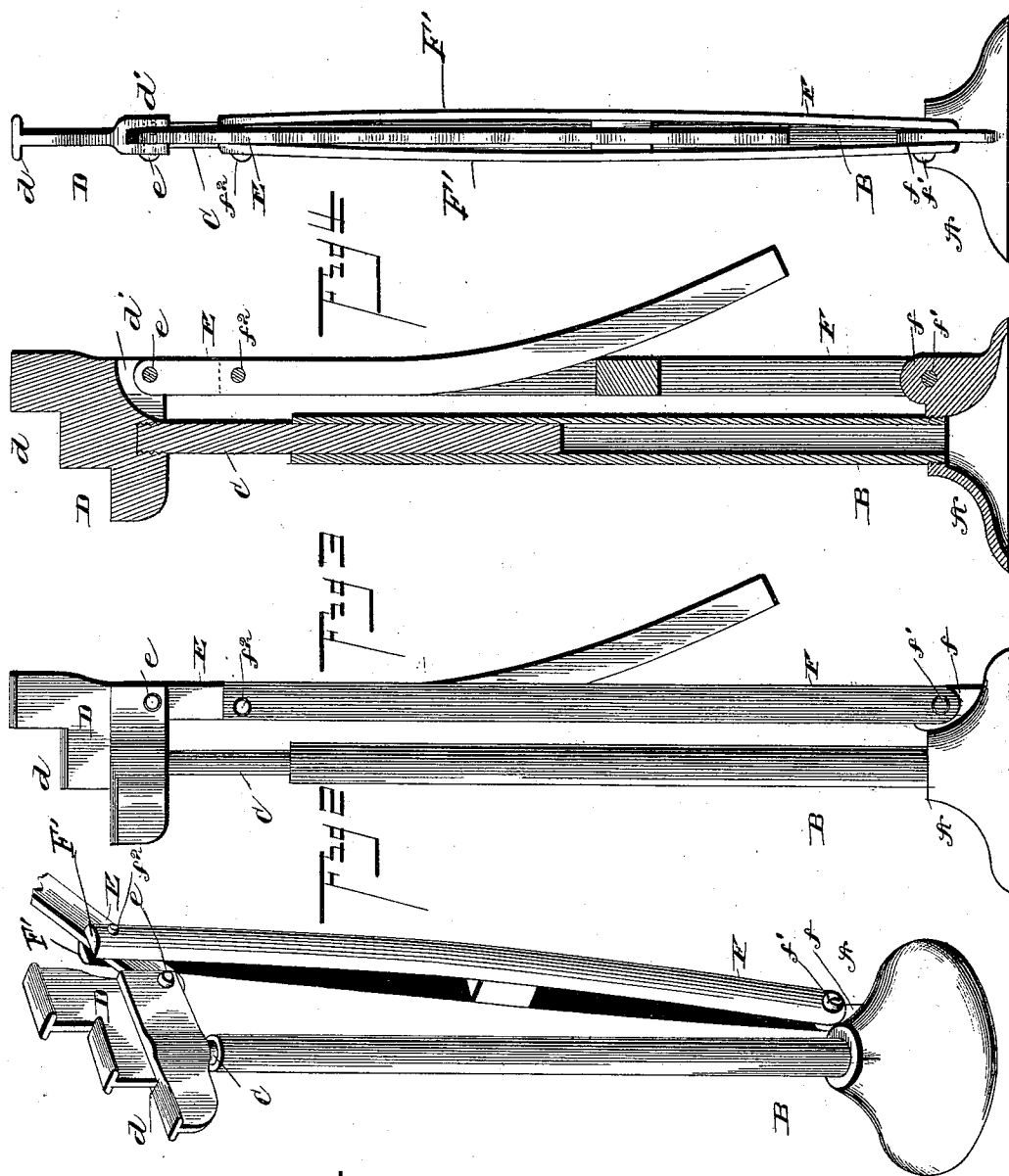


(No Model.)

C. EMONS.
WAGON JACK.

No. 463,599.

Patented Nov. 17, 1891.



Witnesses

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WAGON-JACK.

SPECIFICATION forming part of Letters Patent No. 463,599, dated November 17, 1891.

Application filed August 19, 1890. Serial No. 362,369. (No model.)

To all whom it may concern:

Be it known that I, CHARLES EMONS, a citizen of the United States, residing at Hornellsville, in the county of Steuben and State of New York, have invented certain new and useful Improvements in Wagon-Jacks; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to wagon-jacks; and it has for its object to provide a simple and improved device of this character of such construction as to dispense with the necessity for the provision of special locking means for retaining the jack in elevated position.

A further object of the invention is to provide a simple and improved jack of this character which will possess advantages in point of inexpensiveness, durability, ease of operation, and general efficiency.

In the drawings, Figure 1 is a perspective view of a wagon-jack embodying my invention and in position for use. Fig. 2 is a side elevation thereof, illustrating the jack as it appears in its extended position. Fig. 3 is a vertical sectional view. Fig. 4 is a rear end elevation.

Corresponding parts in the figures are denoted by the same letters of reference.

Referring to the drawings, A designates a base-plate of approximately conical shape, and from which projects a vertical tubular standard B. The base-plate is preferably cast of metal and the standard formed of piping, screwed or otherwise secured therein. Disposed within the standard B is a vertically-movable member formed by a rod or tube C, carrying at its upper end a head-block D, which may be provided with a series of steps *d*, upon one of which the axle of a vehicle is adapted to rest. The head-block is further provided with a slot *d'* at its lower rear corner, within which is adapted to be pivoted the inner end of a lever E by a pin or bolt *e*. At about one-third the length of the lever from its inner end the same is bent at an angle to said inner portion, as shown, the purpose of which will hereinafter appear. F designates a fulcrum bar or rod formed of two strips F' F' and pivoted at its lower end

to a lug *f*, projecting from the base-plate, by a pin or bolt *f'*. The upper end of this fulcrum-bar is pivoted by a pin or bolt *f''* to the inner straight portion of the lever, preferably at or near the center of said portion. By supporting the fulcrum-bar upon the base-plate in lieu of supporting it upon the standard it will be obvious that the weight is supported by the base-plate, and greater steadiness is thus insured when the jack is in use.

The operation and advantages of my invention will be readily understood by those skilled in the art to which it appertains. To elevate the head-block the lever is pressed downward and then inward until the inner portion thereof assumes a position at a contrary angle to the fulcrum to that which it normally occupies, the angle of the lever abutting against the upper end of the standard and held thereagainst by pressure upon the head-block.

The strength and durability, as well as the cheapness, of the device will be apparent, the entire jack being constructed of metal and of such material as may be readily adapted for their manufacture.

I claim as my invention—

1. A wagon-jack comprising a base-plate, a standard projecting upwardly therefrom, a vertically-moving bar working in said standard and carrying a stepped head, a lever pivoted to the latter, and a fulcrum bar or rod pivotally bearing upon the base-plate and pivoted at its upper end to the lever, substantially as set forth.

2. A wagon-jack comprising a base-plate, a standard projecting upwardly therefrom and of tubular form, a vertically-moving bar working in said standard and carrying a stepped head, an angular lever, substantially as described, pivoted to the latter, and a fulcrum-bar pivoted to the lever between the angle thereof and the inner end and pivotally supported upon the base-plate, substantially as set forth.

3. A wagon-jack comprising a base-plate provided at one side with an upwardly-projecting lug, a standard projecting centrally from the base-plate and tubular in form, a vertically-working bar disposed in said standard and carrying at its upper end a head pro-

vided with a series of steps, an angular lever pivoted at the rear of said head, and a fulcrum-bar pivoted to the lever between its inner end and the angle thereof and to the lug projecting from the base-plate, substantially as set forth.

4. As an improved article of manufacture, a wagon-jack constructed of metal and comprising a base-plate provided at one side with a lug, a tubular standard secured to the base-plate and projecting upwardly therefrom, a bar working in the standard and carrying at its upper end a stepped head provided at its rear lower corner with a slot, a lever pivoted at its inner end in the latter and having its handle portion bent at an angle to the inner pivoted portion, for the purpose described, and a fulcrum-bar pivoted at its lower end to the lug upon the base-plate and at its upper end to the lever between the angle thereof and its inner end, substantially as and for the purpose shown and specified.

5. In a wagon-jack, the combination of a

base, a standard secured thereto, a vertically-movable member carried by the standard, a lever pivotally connected with said vertically-movable member, and a fulcrum bar or rod pivotally mounted upon the base and pivotally connected with the lever, substantially as and for the purpose set forth.

6. In a wagon-jack, the combination of a base, a standard secured thereto, a vertically-movable member carried by the standard, a lever pivotally connected with said vertically-movable member and formed with an angle below its inner pivoted end, and a fulcrum bar or rod pivotally mounted upon the base and pivotally connected with the lever at a point above the angle thereof, substantially as and for the purpose set forth.

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

CHARLES EMONS.

Witnesses:

FLOYD W. SANSMAN,
JOHN M. GOODRICH.