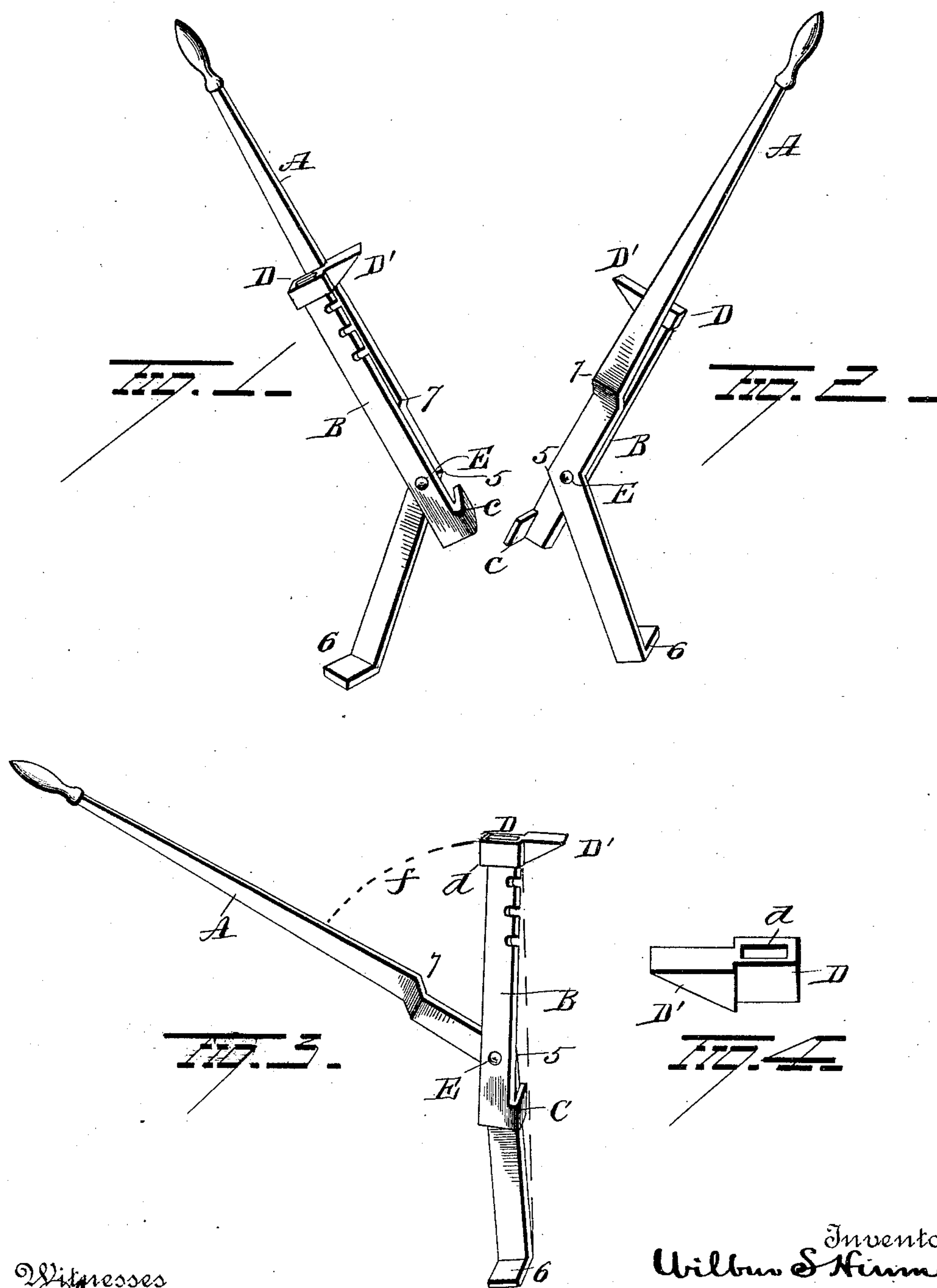


(No Model.)

W. S. HINMAN.
WAGON JACK.

No. 429,686.

Patented June 10, 1890.



Witnesses
C. A. Houghton
C. F. Downing

Inventor
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By his Attorney
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UNITED STATES PATENT OFFICE.

WILBUR S. HINMAN, OF STREATOR, ILLINOIS, ASSIGNOR OF ONE-HALF TO
JOHN H. SHAY, OF SAME PLACE.

WAGON-JACK.

SPECIFICATION forming part of Letters Patent No. 429,686, dated June 10, 1890.

Application filed February 19, 1890. Serial No. 341,087. (No model.)

To all whom it may concern:

Be it known that I, WILBUR S. HINMAN, of Streator, in the county of La Salle and State of Illinois, have invented certain new and useful Improvements in Wagon-Jacks; and I do hereby 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.

My invention relates to an improvement in wagon-jacks, the object being to provide a light and simple device of few parts and capable of quick and easy control, and one which will be powerful and effective in performing its functions.

With this end in view my invention consists in certain novel features of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a right side elevation. Fig. 2 is an elevation from the opposite side. Fig. 3 shows the position of parts when the jack is raised or in extended adjustment, and Fig. 4 is a detached view of the head D.

A represents a hand-lever, the same being composed of a narrow strip of plate metal of suitable length for the purpose and bent edgewise at point 5 to divide the bar into two parts, which for convenience may be designated an "arm" and a "leg." The latter is also bent laterally at its lower end to form a foot 6, adapted to rest on the ground when the jack is in operation.

At the bend 5 an arm B is pivotally connected with lever or arm A by means of a pin E or similar device. This arm is provided with a lateral projection C at its lower end, which is designed to abut against the edge of the lever or arm A and limit the movement of arm B in one direction when the jack is in its extended or elevated adjustment, as shown in Fig. 3. At the opposite end the edge of pivoted arm B is notched, as shown, and an adjustable or movable head D is fitted on the upper end of the arm, the hole *d* therein being of sufficient size to admit of the head tilting to fall in the notch opposite it. Other means could of course be

used for holding the head at different positions or heights on the arm; but this is adopted as being the most convenient and practical for the present purpose. The head is provided on one side with a shoulder D', of sufficient width to project over into the plane through which lever A swings to limit the movement of the latter, so that this shoulder and the projection C define the extreme movements of the arm B. It may also be added in this connection that the lever or arm A is furnished with a lateral offset at 7 to allow space for the head D to move in, when its position is changed, without striking the lever and also to form a shoulder for the head.

In operation the jack is placed under the axle, in position shown in Figs. 1 and 2, the head D being adjusted to a height to rest beneath the axle, and then the lever A is pulled back to position shown in Fig. 3, thus raising the head D with the axle. In this position the jack remains locked by virtue of the weight being applied on the same side of the center of gravity that the projection C is located on.

It is evident that slight changes might be resorted to in the form and arrangement of the several parts without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to the exact construction set forth; but,

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

1. A wagon-jack composed substantially of two members pivoted together, one member having projections at each end adapted to strike the other member for the purpose of limiting its movements, substantially as set forth.

2. In a wagon-jack, the combination, with a bar bent to form an arm and leg, of an arm pivoted at the bend, substantially as set forth.

3. In a wagon-jack, the combination, with a bar bent edgewise at a proper angle, of an arm pivoted at or near the bend in the bar, said arm having a projection at each end adapted to bear on the bar when the arm is

in its extreme position, substantially as set forth.

4. In a wagon-jack, the combination, with a bar bent into two parts, of an arm pivoted at the bend, said arm having a shoulder at each end, one shoulder being adjustable, substantially as set forth.

5. In a wagon-jack, the combination, with a bar bent edgewise to form an arm and leg, of an arm pivoted at the bend, said arm having a lateral projection at one end and an adjustable head at the opposite end, substantially as set forth.

6. In a wagon-jack, the combination, with a bar bent to form an arm and leg, the arm

having a lateral offset therein, of an arm pivoted at the bend, said arm having a lateral projection at the lower end and notches at the upper end, and a head fitted on the upper end and adapted to be held at different positions by the notches, said head having a shoulder on one side thereof, substantially as set forth.

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

WILBUR S. HINMAN.

Witnesses:

JOHN H. SHAY,
D. A. HERSHEY.