A. BRATSCHI.

WAGON-JACKS.

No. 194,574. Patented Aug. 28, 1877.

Fig: 1.

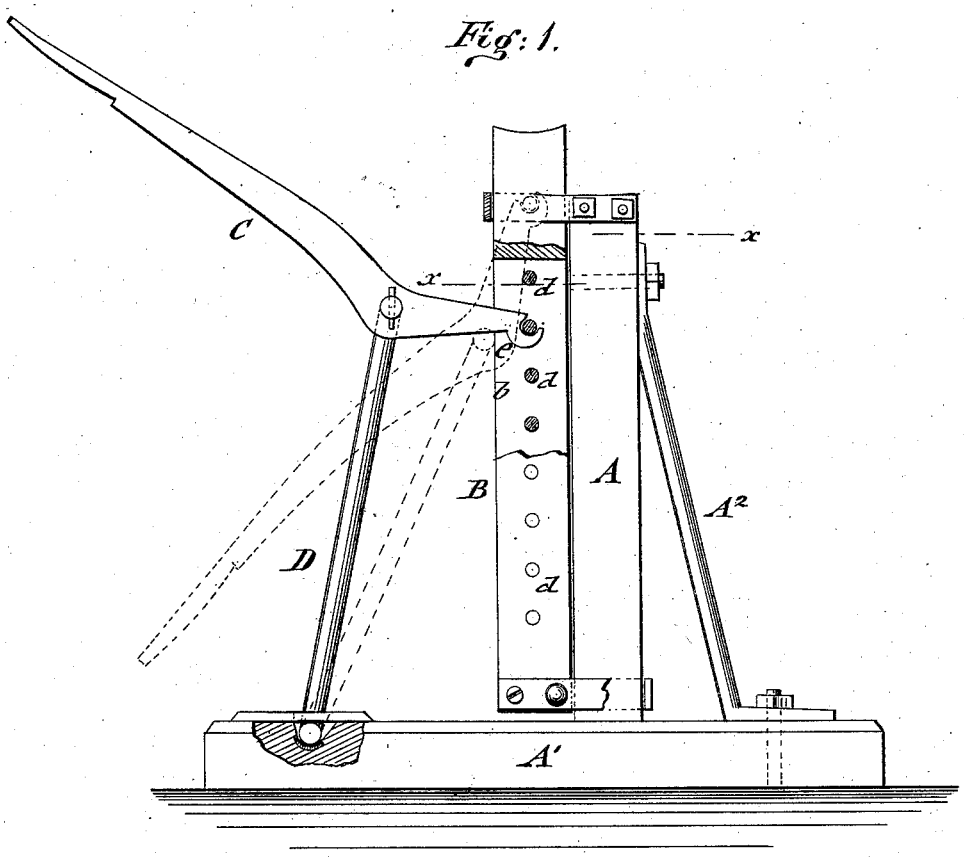
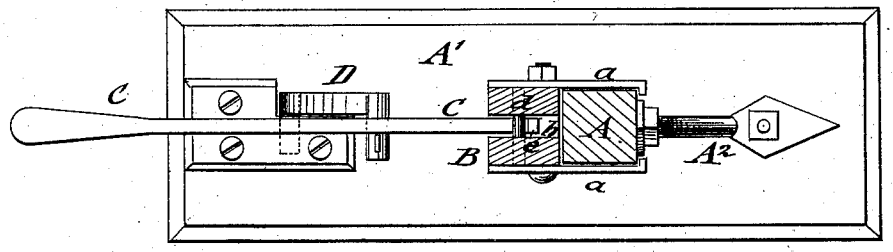


Fig: 2.



WITNESSES:

Chas. Nida

J. N. Scarborough.

INVENTOR:

A. Bratschi

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

AMIEL BRATSCHI, OF PORTERSVILLE, PENNSYLVANIA.

IMPROVEMENT IN WAGON-JACKS.

Specification forming part of Letters Patent No. **194,574**, dated August 28, 1877; application filed June 25, 1877.

To all whom it may concern:

Be it known that I, AMIEL BRATSCHI, of Portersville, in the county of Butler and State of Pennsylvania, have invented a new and Improved Wagon-Jack, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a side elevation, with parts cut off, of my improved wagon-jack; and Fig. 2 is a horizontal section of the same on line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish a wagon-jack that is adapted to raise wagon-axles and other objects to any height, and rigidly support the same for oiling and other purposes.

The invention consists of a rigid vertical guide-post, secured to a suitable base, and of a sliding post, with central groove and cross-pins, raised by a hand-lever with hook-shaped end. The hand-lever is fulcrumed to a swinging rod, and made to engage one of the cross-pins of the sliding post and lock the latter, in connection with the swinging brace-rod, into raised position.

In the drawing, A represents an upright post that is rigidly secured to a base-piece, A^1, and braced by an inclined rod, A^2. Along the upright post A is guided a vertically-sliding post, B, that is retained by metal guide-bands *a*, fastened, respectively, to the lower end of post B, and to the upper end of the main post A. The sliding post B has a central longitudinal slot or recess, *b*, and a number of cross-pins, *d*, which are engaged by the hook-shaped end *e* of a hand-lever, C, that is fulcrumed to the upper end of a rod, D, which is pivoted at the lower end into a socket of the base-piece A^1.

The sliding post B is first raised along the main post up to the height of the axle or other object to be lifted, and then the hook of the hand-lever inserted, to take hold of one of the cross-pins according to the distance to which the axle is to be raised. When the sliding post is raised by the lowering of the hand-lever to such height that the swinging rod D bears against the same, the part of hand-lever D between the fulcrum and pin is thrown below the straight line connecting the pivot of rod D and the pin, engaged by the hand-lever, so as to act as a brace to the hand-lever, and lock thereby the sliding post rigidly in raised position for supporting the wagon-axle or other object. By raising the hand-lever, the sliding post is lowered, and the hook of the hand-lever disengaged from the pin.

The locking of the sliding post to any required height by the joint action of the hand-lever and pivot-rod forms the essential feature of this jack, and furnishes a simple and effective implement for the raising of axles and similar purposes.

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

The combination, in a lifting-jack, of a sliding post, B, having cross-pins *d* in a slot thereof, and a lever, C, having an inverted hook at the end, the former connected with rigid base A^1 by swinging rod D, and the latter by fixed guide-post A, as shown and described.

AMIEL BRATSCHI.

Witnesses:
WM. WILLIAMS,
FREDERICK BURRY.