

C. D. AYLSWORTH.
Lifting-Jacks.

No. 150,458.

Patented May 5, 1874.

Fig. 1.

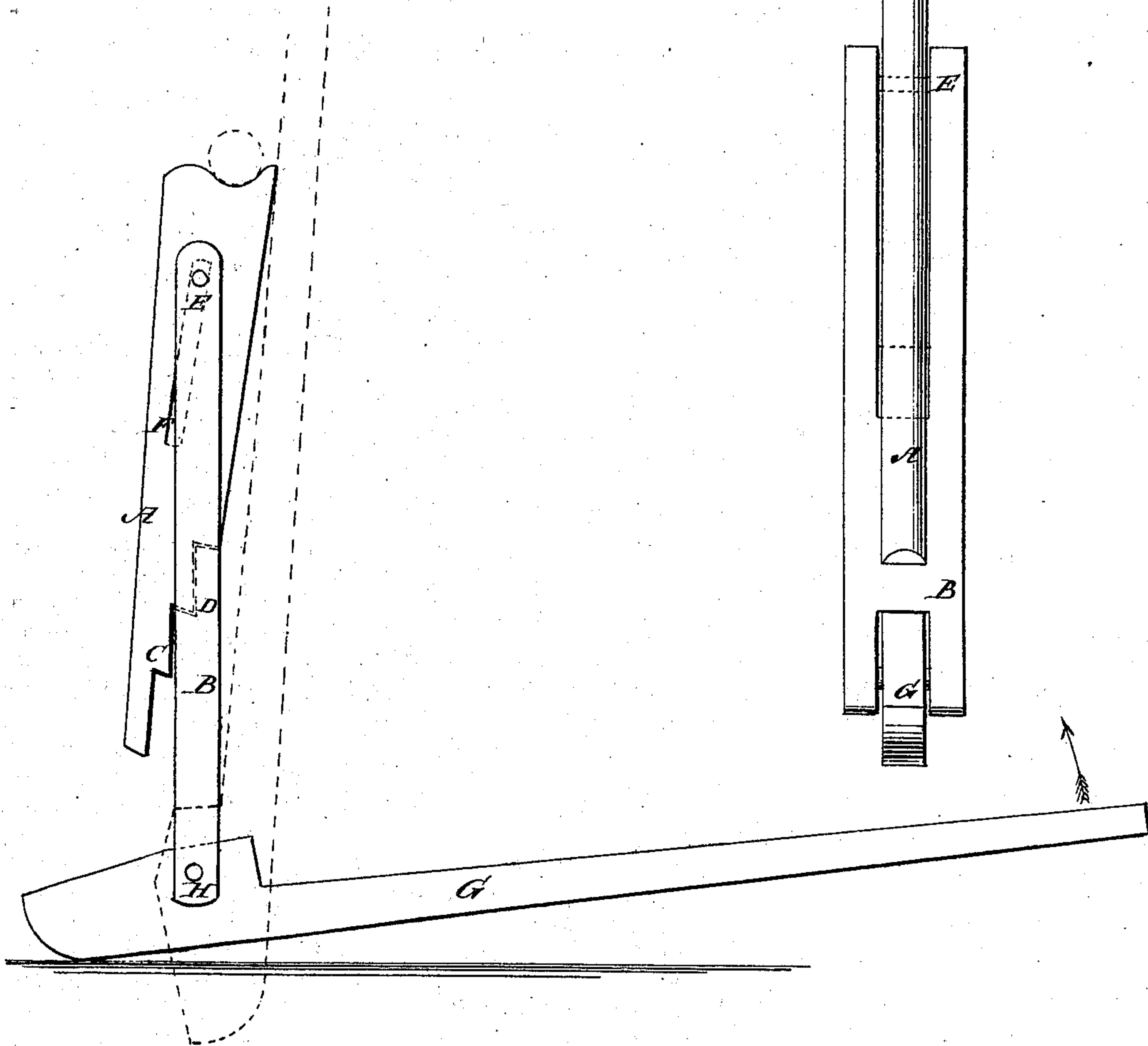
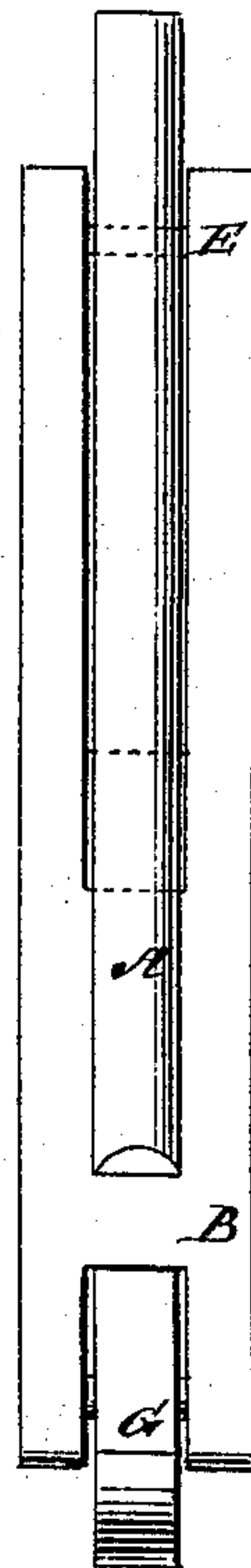


Fig. 2.



WITNESSES.

E. Wolff.
Chadwick.

INVENTOR.

C. D. Aylsworth.
BY *Munn & Co.*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHARLES D. AYLSWORTH, OF AFTON, NEW YORK.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. **150,458**, dated May 5, 1874; application filed April 11, 1874.

To all whom it may concern:

Be it known that I, CHARLES D. AYLSWORTH, of Afton, in the county of Chenango and State of New York, have invented a new and useful Improvement in Wagon-Jacks, of which the following is a specification:

This invention relates to a new and useful improvement in jacks for raising the axles and wheels of wagons, carriages, and other wheeled vehicles; and consists in the construction and arrangement of parts hereinafter described.

In the accompanying drawing, Figure 1 is a side elevation, showing the construction of the jack, and the manner of its application. Fig. 2 is a front view of the same.

Similar letters of reference indicate corresponding parts.

A is a slide, which works in a slotted bar, B, and is adjusted, as to height, by means of the stops or notches C, which fit into a corresponding notch in the slotted bar B, as seen at D. The notches in both are beveling, so that the tendency is to cling together when the jack is loaded. The slide is guided and governed by the pin E, which passes through the slot of the bar B, and through the slot F in the slide A, as shown in Fig. 1. G is the lifting-lever. This lever is connected, by the joint-pin H, to the lower forked end of the bar B.

In operating with the jack, it will be seen that the lever rests upon the ground, and that its long end is lifted, and the jack raised in raising the axle of the wagon, the fulcrum being the floor or surface of the ground.

When the lever is turned up to the position seen in dotted lines, the weight is directly over the lower end of the lever, and the latter, with the jack, is maintained in an upright position. In bringing the lever to this position, its short end and bar B act as the members of a toggle-joint, and with constantly-increasing power, until the bearing-points are in line with each other, as seen in the drawing.

By this mode I am enabled to employ a much longer lever, with a corresponding increase of power, than I could were I to apply the power in the ordinary manner.

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

A wagon-jack, consisting of the slide A, bar B, and lifting-lever G, combined to operate substantially as set forth.

CHARLES D. AYLSWORTH.

Witnesses:

ORSON BEATMAN,
ROBERT H. DIMORIER.