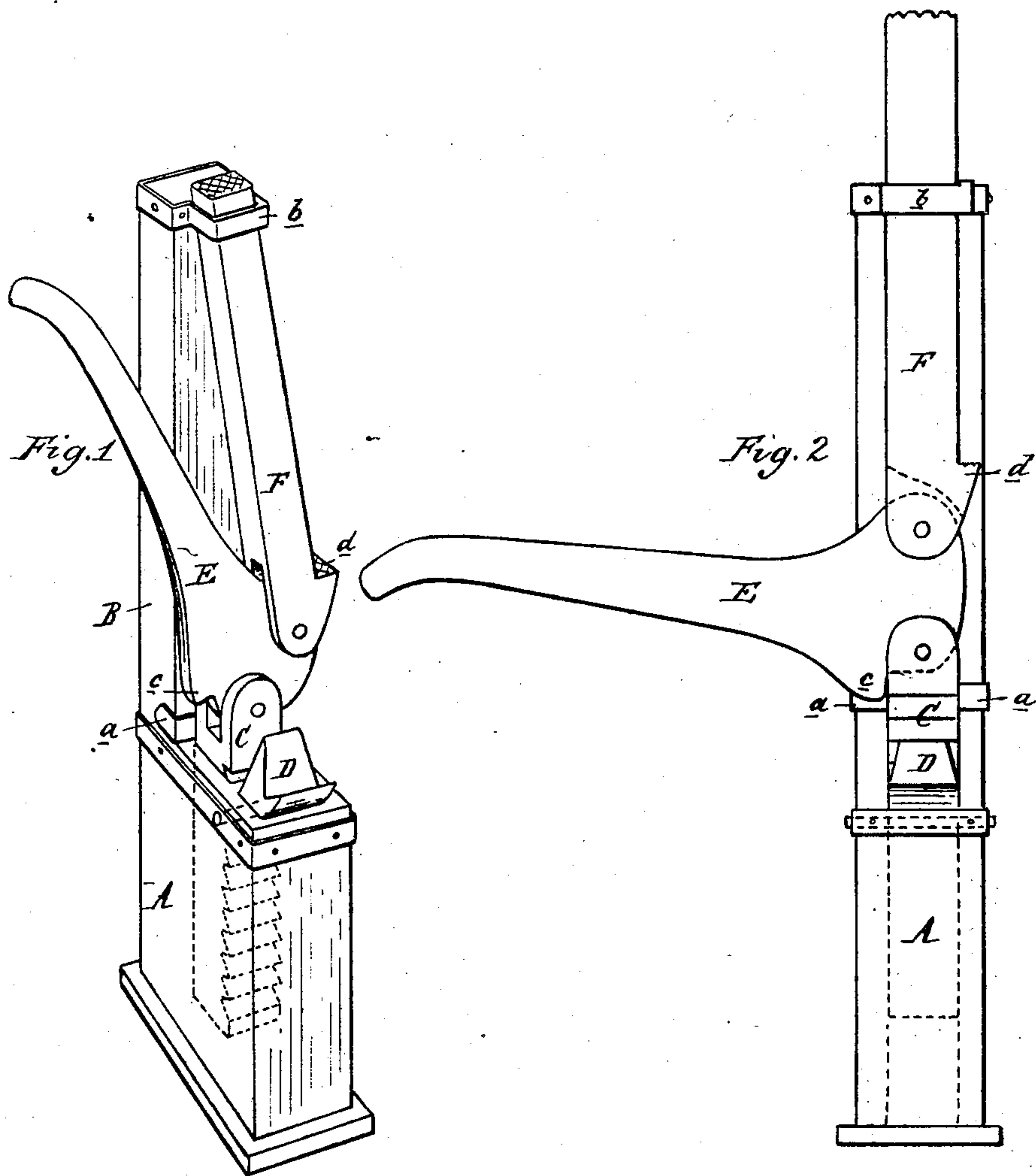


(No Model.)

A. N. WOODARD.  
WAGON JACK.

No. 260,917

Patented July 11, 1882.



Attest:  
A. Barthel  
H. D. Sprague.

Inventor:  
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Atty

# UNITED STATES PATENT OFFICE.

ALVIN N. WOODARD, OF MILLINGTON, MICHIGAN.

## WAGON-JACK.

SPECIFICATION forming part of Letters Patent No. 260,917, dated July 11, 1882.

Application filed May 10, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, ALVIN N. WOODARD, of Millington, in the county of Tuscola and State of Michigan, have invented new and useful  
5 Improvements in Wagon-Jacks; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

10 The nature of this invention relates to certain new and useful improvements in the construction of wagon-jacks.

The object of the invention is to provide a device which shall be inexpensive and yet substantial in all its parts, and which can readily  
15 be adapted or adjusted to be applied to wagons, the axles of which are at varying distances from the base or ground.

The invention consists in the peculiar construction and combination of vertical sliding  
20 bars operated by a lever and retained in their elevated and adjusted position by means of a suitable dog, all as more fully hereinafter set forth.

25 Figure 1 is a perspective of my improved jack, ready for use. Fig. 2 is a front elevation, showing position of parts when the lever is depressed.

In the accompanying drawings, A represents a suitable base, provided with a standard,  
30 B. This base A is vertically recessed to receive the ratchet-faced bar C, which has a vertical movement in such base, and is prevented from having a lateral or side motion by means  
35 of the guides or slides *a*, which embrace the sides of the standard B. In this base is also properly pivoted the dog D, which engages with the ratchet of the bar C to retain it in its elevated or adjusted position.

40 E is a lever of the cam-lever class, and is pivoted near the lower edge of its cam-shaped head to or within the upper end of the rack-bar C, while the opposite end of the head of this lever is similarly pivoted in the lower end  
45 of the bar F, which projects above the standard B, and has a vertical movement within the guide *b*, projecting from the upper end of the standard B.

In practice, when it is desired to raise or jack up a load which is low the dog D is dis- 50 engaged from the bar C, and is allowed to drop within the recess of the base A, resting upon the bottom of such recess, with the lever in position as shown in Fig. 1. The device is then set under the article to be raised and the  
55 lever is depressed, which compels the upper end of the bar F to come in contact with the article to be raised, and in a further depression of the lever it raises such article or load and retains it in its elevated position. The lower  
60 end of the bar F, having passed the vertical center, is stopped from a further movement by the shoulder *c* of the lever, which comes in contact with the head of the bar C. To apply  
65 it to wagons of various heights, or to an article which stands farther from the ground, the bars F C, together with the lever, are raised to the proper height, the dog engaging  
70 with the rack holding it in its adjusted position. In this case the resistance to the downward pressure of the load is brought upon the dog D by its engagement with the rack-bar C.

By this construction and arrangement of parts I produce a jack which is simple and yet substantial in point of construction, and I  
75 have practically demonstrated that with a jack weighing but five pounds I can easily and readily raise a weight of thirty-five hundred pounds.

What I claim as my invention is— 80

1. The combination of the base A and standard B thereof, the vertically-adjustable rack-bar C, and bar F, the approximating ends of which are secured together and operated by the lever E, which is provided with a suitable head  
85 and stop-shoulder *c*, substantially as and for the purposes set forth.

2. The combination of the base A and standard B thereof, the bars C F, lever E, and dog D, constructed, arranged, and operating sub- 90 stantially as and for the purpose specified.

ALVIN N. WOODARD.

Witnesses:

H. S. SPRAGUE,  
E. SCULLY.