(No Model.)

W. H. GRAY.

WAGON JACK.

No. 301,229.

Patented July 1, 1884.

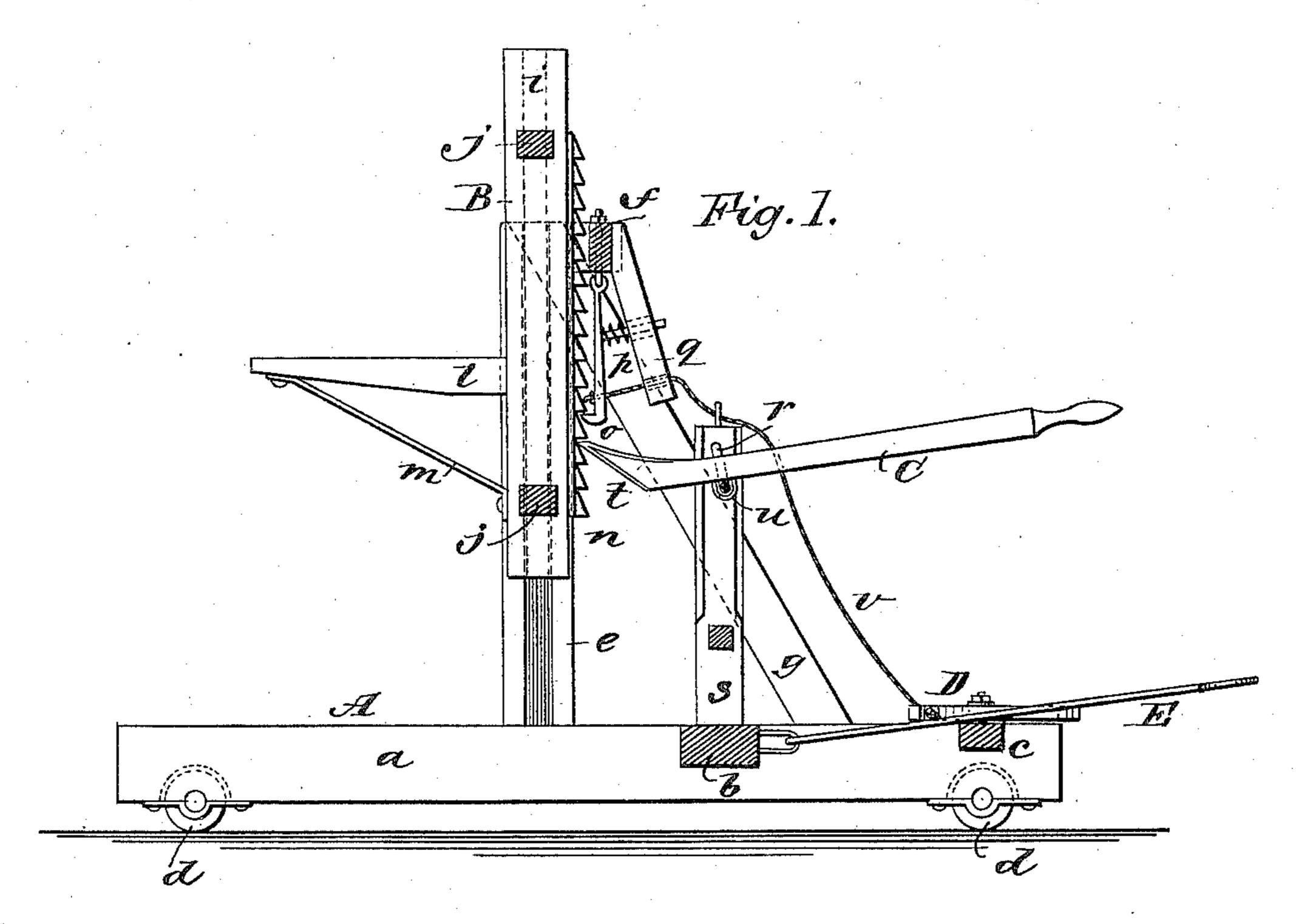
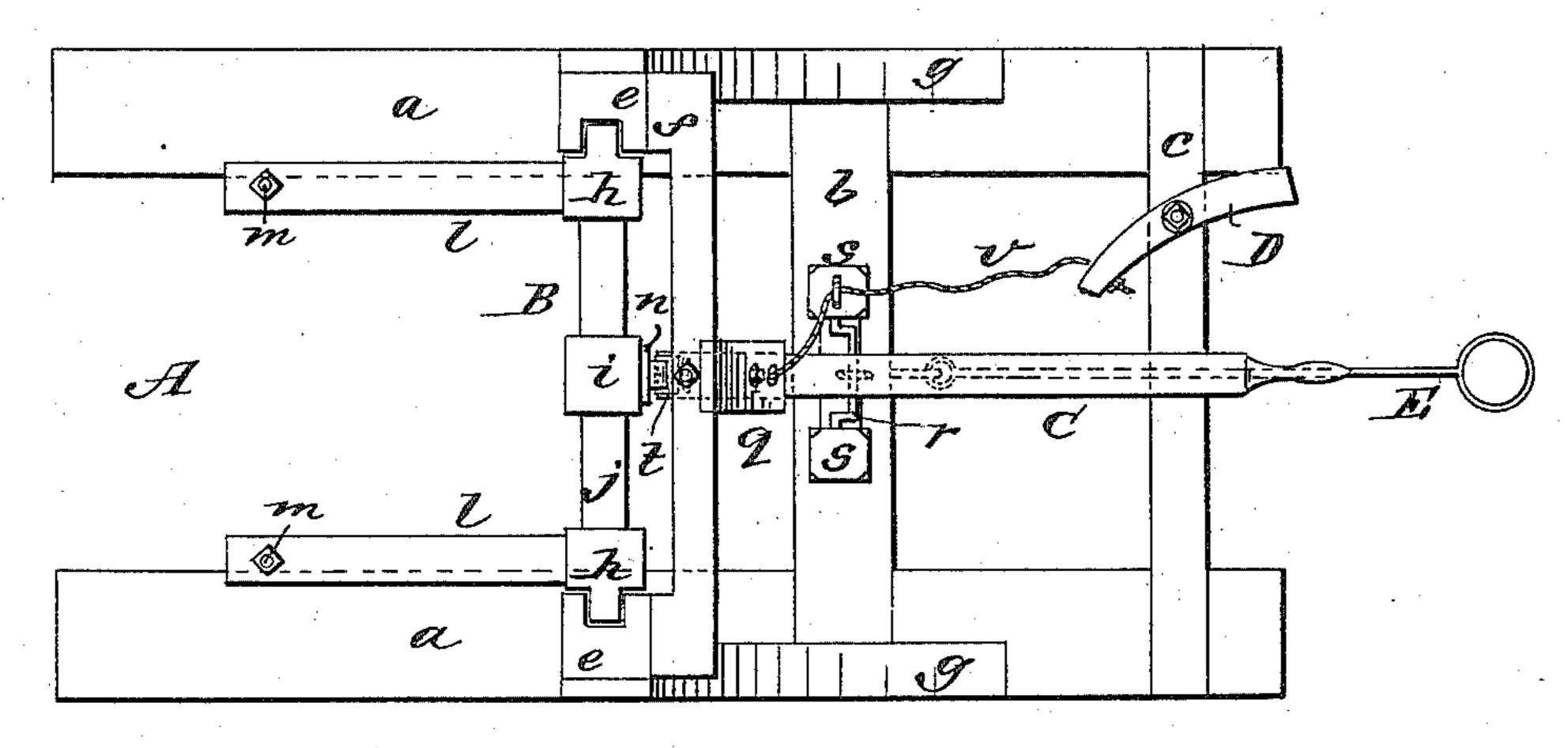


Fig. 2.



WITNESSES:

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WILLIAM H. GRAY, OF NEAPOLIS, OHIO.

WAGON-JACK.

SPECIFICATION forming part of Letters Patent No. 301,229, dated July 1, 1884.

Application filed April 2, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. GRAY, of Neapolis, county of Lucas, Ohio, have invented a new and Improved Wagon-Jack, of 5 which the following is a full, clear, and exact

description.

The object of my invention is to provide a wagon-jack for lifting racks and wagon-boxes from the running-gear of wagons; and it con-10 sists of a horizontal bed-frame and vertical guides, in combination with a vertically-sliding frame carrying two brackets for engaging the rack or wagon-box, and in a pawl-andratchet mechanism for raising the said sliding 15 frame and maintaining it in an elevated position.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate 20 corresponding parts in both figures.

Figure 1 is a side sectional elevation of my improved jack, and Fig. 2 is a plan view.

The bed-frame A, composed of side bars a and cross-bars b c, is mounted upon rollers d, 25 for convenience of moving. At or near the centers of the side bars a are erected two grooved posts, e, connected together at the top by the cross-bar f, and stiffened by braces g, connected with the bed-frame. A frame, 30 B, composed of tongued side bars h, adapted to the grooved posts e, center bars, i, and cross-bars j, is placed between the posts e, and carries two brackets, l, projecting from the side bars h and stiffened by braces m. On 35 the opposite side of the frame B a ratchet-bar, n, is secured to the center bar, i, of the frame B, and a hooked pawl, o, pivoted to the cross-

bar f, is pressed forward into engagement with the ratchet-bar n by a spiral spring, p, 40 abutting against an arm, q, extending downward from the cross-bar f. A crank-shaft, r, is journaled in posts s, secured to the cross-bar b, and supports a lever, C, whose shorter arm is curved upward, and is provided with an

45 iron shoe, t, capable of engaging the ratchetbar n. The lever C is secured to the crank-

shaft r by a staple, u. A foot-lever, D, pivoted to the bar c, is connected by a cord, v, extending through a staple in the top of one of the posts s and through a hole in the arm 50 q, with the hooked pawl o. A draw-rod, E, is connected by a staple with the cross-bar b, and is used in pulling the jack from one place to another.

The jack is moved forward so as to bring 55 the brackets lunder the object to be lifted when the shoet of the lever C is brought into engagement with the ratchet-bar n. A downward pressure of the lever C raises the ratchet-bar and frame B, connected therewith, and the 60 hooked pawlo retains the frame B and its load while the lever C is moved to secure a new bite on the ratchet-bar n. The crank-shaft r admits of the necessary longitudinal motion of the lever C. When it is desired to lower the 65 frame B, the lever C is pressed downward, so as to release the hooked pawl o, when the said hooked pawl may be withdrawn from the ratchet by the pressure of the foot against the lever D.

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

1. In a wagon-jack, the combination, with the vertically-sliding frame B, of brackets l and pawl-and-ratchet mechanism for raising 75 the said frame, as described.

2. The combination, with the verticallysliding frame B, provided with a ratchet-bar, n, of the lever C and crank-shaft r, as described.

3. The combination, with the grooved posts e, connected by the cross-bar f, provided with the arm q, and the sliding frame B, provided with the rack n, of the hooked pawl o, pivoted to the said cross-bar, the spring p, interposed 85 between the arm q and pawl o, the cord v, and the foot-lever D, substantially as herein shown and described.

WILLIAM H. GRAY.

Witnesses:

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