

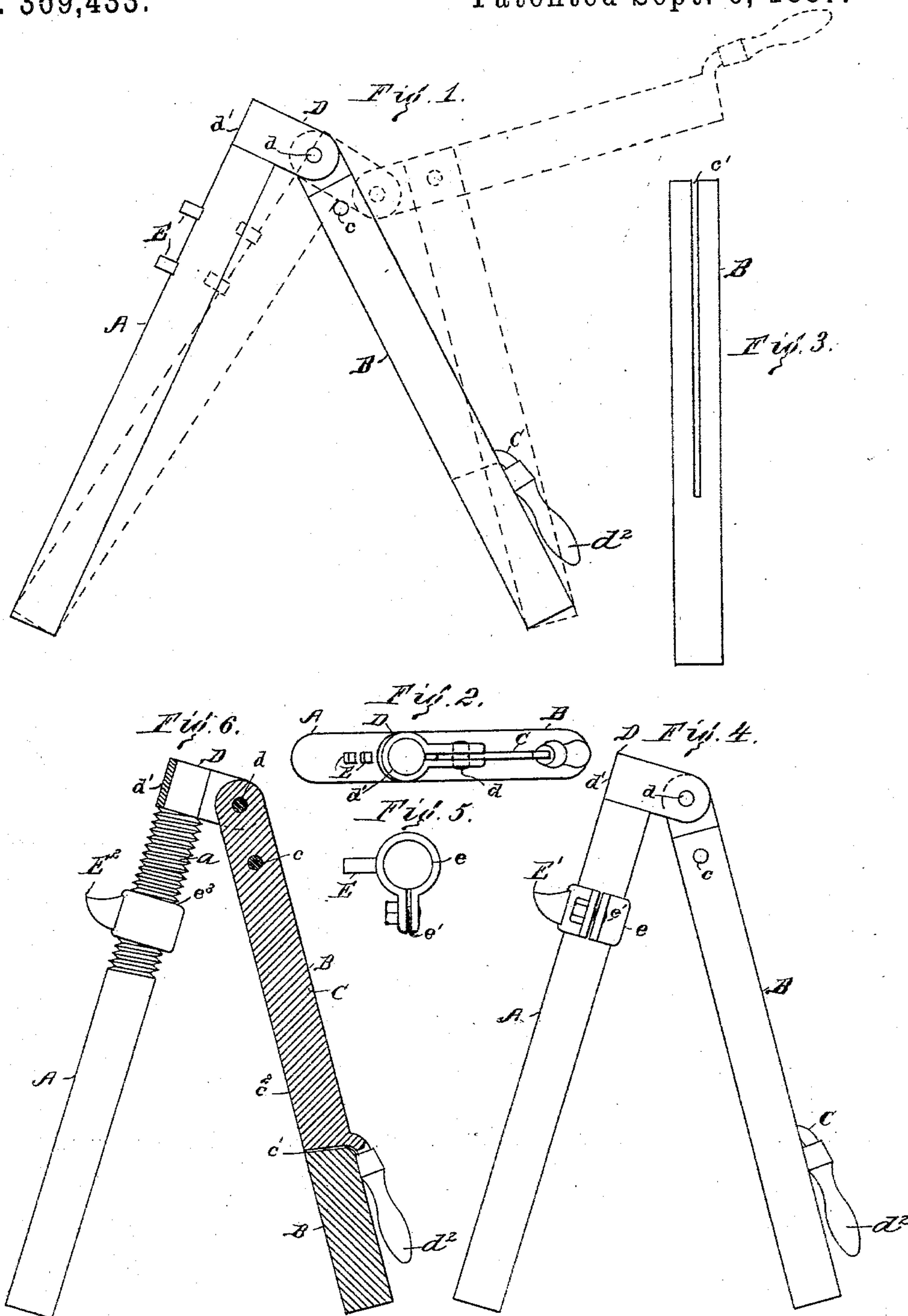
(No Model.)

R. J. BUTTERFIELD.

CARRIAGE JACK.

No. 369,433.

Patented Sept. 6, 1887.



Witnesses—
Herkley Hyde.
Arthur M. Day.

INVENTOR—
Reuben J. Butterfield,
By Albert M. Moore,
His Attorney.

UNITED STATES PATENT OFFICE.

REUBEN J. BUTTERFIELD, OF WESTFORD, MASSACHUSETTS.

CARRIAGE-JACK.

SPECIFICATION forming part of Letters Patent No. 369,433, dated September 6, 1887.

Application filed July 2, 1887. Serial No. 243,221. (No model.)

To all whom it may concern:

Be it known that I, REUBEN J. BUTTERFIELD, of Westford, in the county of Middlesex and Commonwealth of Massachusetts, have
5 invented a new and useful Improvement in Carriage-Jacks, of which the following is a specification.

My invention relates to carriage-jacks; and it consists in the devices and combinations
10 hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of my improved carriage-jack, the full lines representing the jack in the position it occupies when in use and the dotted lines showing the same with the lever
15 raised to allow the jack to be placed under the load; Fig. 2, a plan of the jack in the position shown by full lines in Fig. 1; Fig. 3, either a front or rear elevation of the slotted leg of the jack; Fig. 4, a side elevation of the jack, showing a modification of the lifting-lug; Fig. 5, a
20 plan of the lug shown in Fig. 4; Fig. 6, a side elevation of the front leg of the jack, showing another modification of the lifting-lug and means of adjusting said lug on said front leg,
25 and a vertical central section of the rear leg, lever, and attaching-ear, the lever being depressed in Figs. 4 and 6.

In all the figures the jack is represented as
30 consisting of a front leg, A, a rear leg, B, a lever, C, pivoted at *c* within a central vertical slot, *c'*, (shown in Figs. 3 and 6,) to the rear leg, B, an attaching-ear, D, to which the upper end of the lever C is pivoted at *d*, and one
35 or more lifting-lugs projecting from the front side of the front leg, A. The legs A, B, for cheapness, are preferably made of round wooden rods, as shown, and are connected to each other by the lever C and ear D, said ear
40 being provided with a ring, *d'*, which surrounds the upper end of the front leg, A, and projecting backward far enough to allow the legs to be laid parallel with each other and close together when the jack is not in use.
45 The rear leg, B, is slotted entirely through at *e'*, to receive the flat main part or body *e''* of the lever C, which is of a width equal to the diameter of said rear leg, and the pivot or fulcrum pin *c* of said lever passes through the
50 middle of said lever and through the middle of said rear leg, and the pivot *d* passes through the ear D at a distance from the front leg, A,

equal to half of the diameter of said rear leg, so that the lever, when the jack is not in use, lies wholly within the rear leg, except that said
55 lever is provided with a handle, *d''*, arranged parallel with the body of said lever and so as to lie close against the leg B when the jack is folded, and except that said lever projects above the top of the leg B. 6c

In Fig. 1 the jack is represented as provided with two pins or lifting-lugs, E, which may be merely wooden pins driven into the front side of the front leg, the object of these lugs being
65 of course to support and lift the carriage-axle or other load to which the jack is applied, there being two or more such lugs to enable the jack to be used for axles of different heights.

In Fig. 4 a single lifting-lug is shown at E', 70 said lug E' being provided with a clip, *e*, (shown in plan in Fig. 5,) adapted to surround the leg A, and having its ends drawn together by a clamp-screw, *e'*, to hold the lug E' at any desired distance from the lower end of the leg
75 A, to suit axles of different heights and to render the use of more than one lifting-lug unnecessary. For the same purpose the lug E² (shown in Fig. 6) is secured to a nut or internally-threaded ring, *e''*, adapted to engage a
80 screw-thread, *a*, formed on the upper end of the leg A below the ear D, the height of the lug E² being varied by turning said lug and its nut up or down on said leg A. Except in the
85 respects above noted, the jack shown in Figs. 4 to 6 is precisely like the jack shown in Fig. 1.

I claim as my invention—

1. The combination, in a carriage-jack, of a leg, a lifting-lug projecting therefrom in one direction, an ear secured to said leg and projecting therefrom in another direction, another
90 leg provided with a central longitudinal slot, and a lever having a width equal to the thickness of said last-named leg, arranged within said slot and pivoted to said slotted leg and to
95 said ear, the pivot which connects said lever to said ear being at the same distance from said first-named leg as the other pivot or fulcrum-pivot of said lever is from that side of
100 said slotted leg which is adjacent to said first-named leg, to enable said lever and said legs to be folded together parallel with each other, as and for the purpose specified.

2. The combination, in a carriage-jack, of a

leg, a lifting-lug projecting therefrom and adjustable thereon, an ear secured to said leg, another leg provided with a central longitudinal slot, and a lever having a width equal to the thickness of said last-named leg, arranged within said slot and pivoted to said slotted leg and to said ear, the pivot which connects said lever to said ear being at the same distance from said first-named leg as the other pivot or fulcrum-pivot of said lever is from that side of said slotted leg which is adjacent to said first-named leg, to enable said lever and said legs to be folded together parallel with each other and to adapt the height of said lifting-lug to the heights of different carriage-axles, as and for the purpose specified.

3. The combination, in a carriage-jack, of a leg, a lifting-lug provided with a clip adapted to surround said leg and a clamp-screw to hold said lifting-lug at any desired distance from the lower end of said leg, an ear secured to

said leg, another leg provided with a central longitudinal slot, and a lever having a width equal to the thickness of said last-named leg, arranged within said slot and pivoted to said slotted leg and to said ear, the pivot which connects said lever to said ear being at the same distance from said first-named leg as the other pivot or fulcrum-pivot of said lever is from that side of said slotted leg which is adjacent to said first-named leg, to enable said lever and said legs to be folded together parallel with each other and to adapt the height of said lifting-lug to the heights of different carriage-axles, as and for the purpose specified.

In witness whereof I have signed this specification, in the presence of two attesting witnesses, this 28th day of June, A. D. 1887.

REUBEN J. BUTTERFIELD.

Witnesses:

ALBERT M. MOORE,
KIRKLEY HYDE.