(No Model.)

A. MOTE & J. B. BREWSTER.

WAGON JACK.

No. 312,746. Patented Feb. 24, 1885.

Fig. 1.

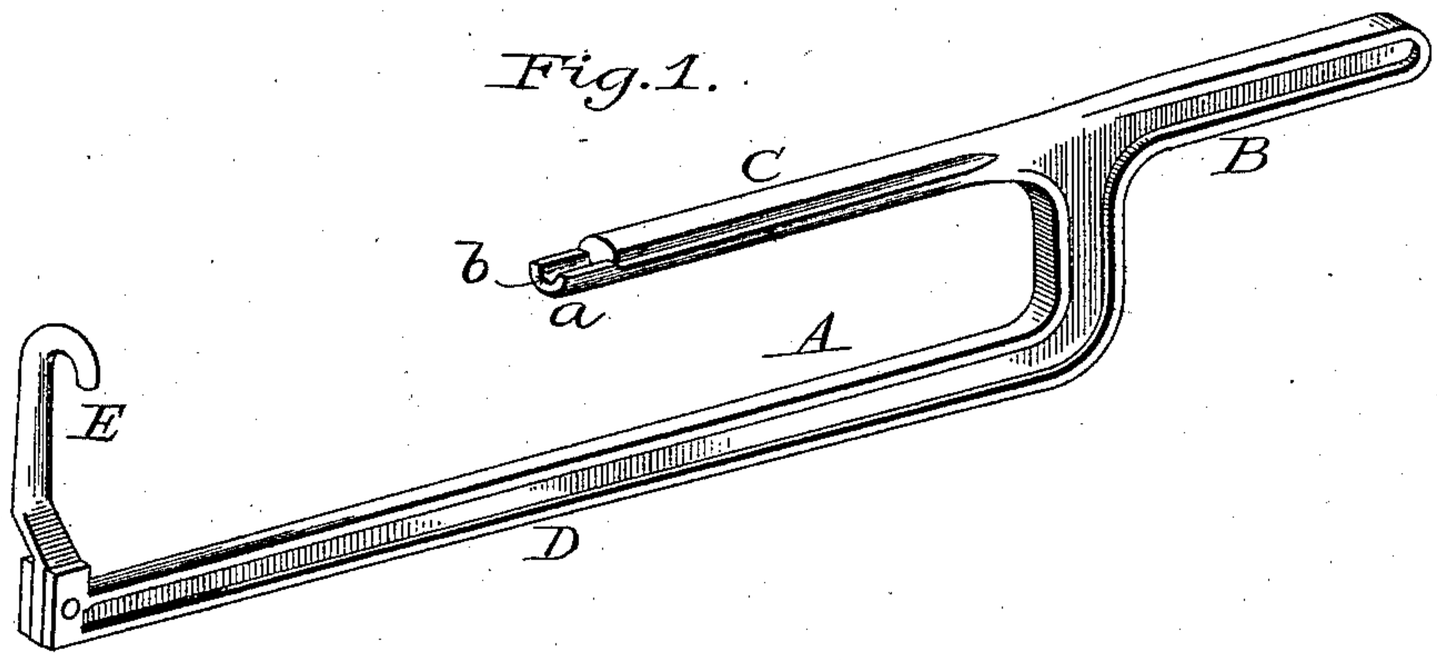


Fig. 2.

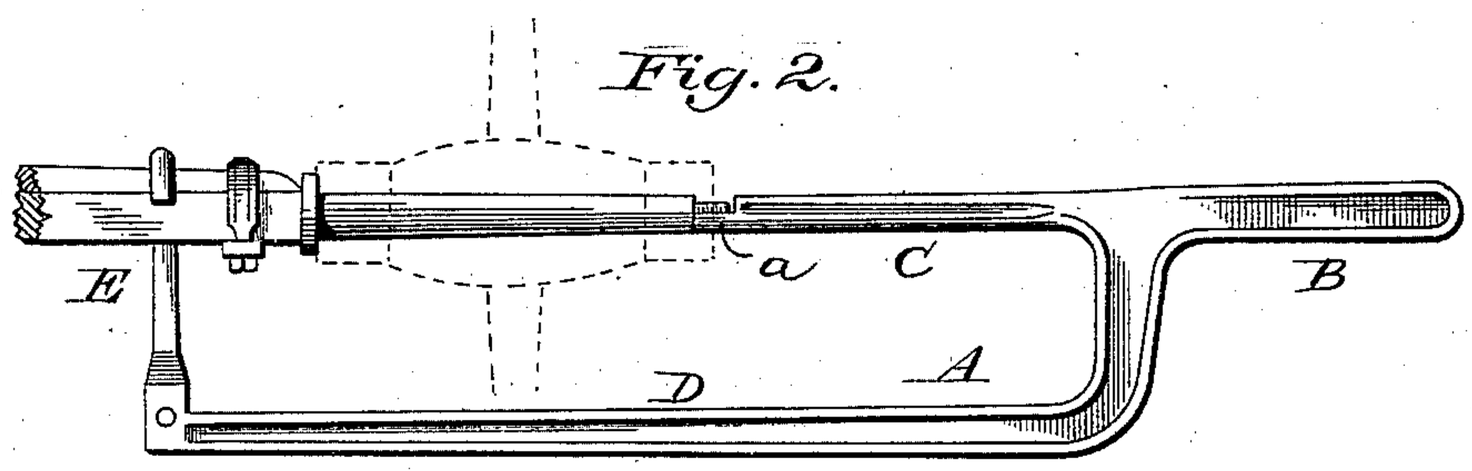


Fig. 3.

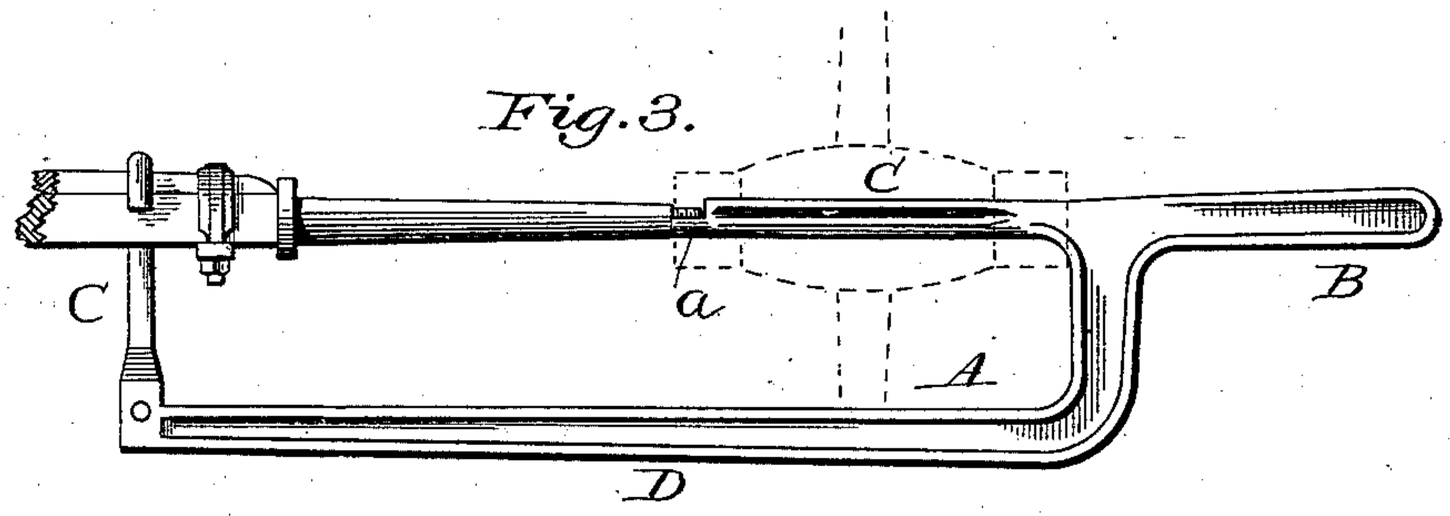


Fig. 4.

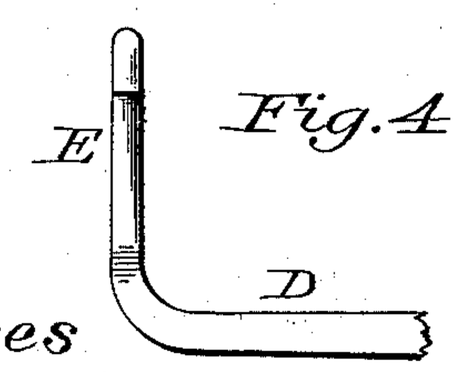
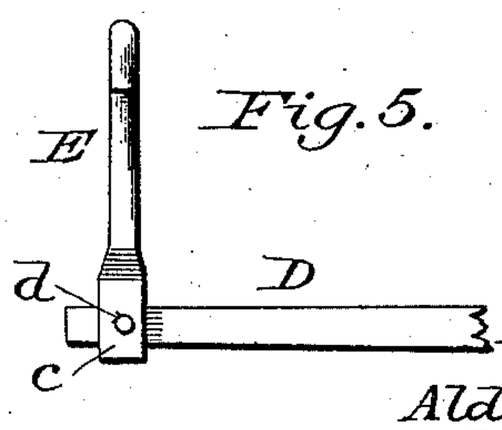


Fig. 5.



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UNITED STATES PATENT OFFICE.

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WAGON-JACK.

SPECIFICATION forming part of Letters Patent No. 312,746, dated February 24, 1885.

Application filed December 30, 1884. (No model.)

To all whom it may concern:

Be it known that we, ALDEN MOTE and JAMES B. BREWSTER, of Oskaloosa, in the county of Mahaska and State of Iowa, have invented certain new and useful Improvements in Wagon-Jacks, of which the following is a specification.

Our invention consists in a novel implement, hereinafter fully described, for supporting the spindle of wagon or carriage axles while the wheel is removed therefrom for any purpose.

In the annexed drawings, Figure 1 is a perspective view of our improved implement; Figs. 2 and 3, views illustrating the manner of using the same; Figs. 4 and 5, detail views.

The purpose of our invention is to produce a simple, cheap, and efficient implement for the purpose stated; and with this object in view we adopt the construction shown in the drawings, in which A indicates the implement as a whole, consisting of a handle, B, from which a cylindrical stem or spindle, C, extends forward a distance slightly greater than the length of the largest hub which is likely to be handled with the implement. D indicates a second arm, which drops down from the point where handle B and stem or spindle C meet, extends forward a little more than twice the length of said stem or spindle, then turns upward and terminates in a lateral hook, E, above the line of spindle C, as plainly shown in Fig. 1, and also in the other figures. The end of stem or spindle C is made with a projecting lip, *a*, having a recess or depression, *b*, in its upper side, as best shown in Fig. 1. The body of the stem or spindle is made of a diameter not greater than the smallest diameter of the axle spindle to which it is to be applied.

The implement being thus constructed is used in the following manner: The retaining-nut is first removed from the axle-spindle. Then the bent arm D is passed between the spokes directly beneath the hub. The hook E is engaged over the top of the axle back of the hub. The lip *a* is inserted beneath the threaded extremity of the axle-spindle and the implement forced inward until stopped by said spindle. The handle B is then lifted, raising with it the wheel and axle. The wheel is drawn from the axle-spindle to the spindle C of the implement, and the handle B is again lowered. The spindle C is then sustained by the wheel and the axle is sustained by the lip *a* of the implement, which is held in place against the axle-spindle by reason of the engagement of the hook E over the axle. When the axle is oiled, or such other work as circumstances may require is finished, the operation is reversed.

The implement may be cast complete in one piece, the hook-arm E being merely an integral extension of arm D, as in Fig. 4, or, as is preferred, the hook-arm E may be made separate, either of cast or of wrought iron, and riveted to the arm D, as in Figs. 1, 2, 3, and 4, or made with an eye or ring, *c*, to encircle the end of arm D, and provided with a set-screw, *d*, to clamp or bind it to said arm. This latter plan is preferred, and is important because it permits the hook to be adjusted as required for vehicles having the axle-clips and other trimmings at different distances from the wheel.

Having thus described our invention, what we claim is—

1. The herein-described implement, consisting of handle B, spindle C, provided with lip *a*, and bent arm D, provided with hook E, all substantially as shown.

2. An implement for use in removing wheels from vehicles, consisting of a spindle to receive the wheel, provided with a lip to fit beneath the end of the axle-spindle, and with a handle, and a bent arm extending downward beneath the handle, thence forward beyond the end of its spindle, thence upward above said spindle, and then terminating in a lateral hook, substantially as described and shown.

3. The implement herein described, consisting of handle B, spindle C, provided with lip *a*, bent arm D, and hook E, adjustable upon said arm, substantially as and for the purpose explained.

4. An implement, substantially such as described and shown, consisting of handle B, spindle C, provided with lip *a*, and arm D, having its outer end bent inward to rest upon or be supported by the axle, as set forth.

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