

H. A. WEBBER.
Coach-Wrench.

No. 217,658.

Patented July 15, 1879.

Fig. 1.

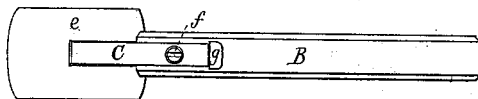


Fig. 4.

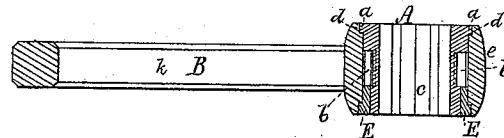


Fig. 2.

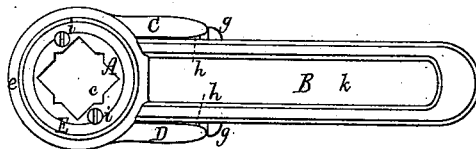


Fig. 3.

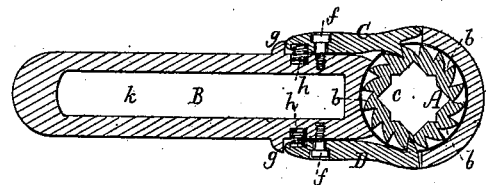
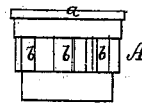


Fig. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

HOLLIS A. WEBBER, OF SOMERVILLE, MASSACHUSETTS.

IMPROVEMENT IN COACH-WRENCHES.

Specification forming part of Letters Patent No. **217,658**, dated July 15, 1879; application filed June 5, 1879.

To all whom it may concern:

Be it known that I, HOLLIS A. WEBBER, of Somerville, of the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Coach-Wrenches; and do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a side elevation, and Figs. 3 and 4 longitudinal sections, of a wrench embodying my invention. Fig. 5 is a side view of its socketed rotary head.

This wrench may be used for screwing a nut upon, as well as unscrewing it from, a wheel-journal.

It consists, first, of a rotary head, A, cylindrical in form, and having a flange, *a*, at one end. It also has a range, *b*, of ratchet-teeth extending around it, and it has a prismatic socket or bore, *c*.

It consists, second, of a stock, B, socketed to receive the said rotary head, the socket having on and round it a rabbet, *d*, to receive the flange of the head.

Furthermore, the stock has openings through the socketed part *e*, to receive the third part of the wrench, which consists of two rocker-pawls, C D, one of which is what is termed a "hooked" or "draw" pawl. These pawls, formed as shown, project into the openings and operate with the ratchet-teeth, the pawls being pivoted to the stock by means of screws *f f* going through holes in the pawls. At the rear ends of the pawls are guards or projections *g g*, extending from the stock, as shown, and between these projections and the screw-pivots of the pawls there are springs *h h*, to press the pawls up to the ratchet-teeth.

Lastly, there is a flanged ring, E, which fits into the head-receiving socket of the stock, and is held in place and serves to hold the

ratcheted head in place by means of screws *i i*, arranged as shown.

The projections *g g* serve as guards to the pawls, to prevent their rear ends from being struck or matters from catching under the pawls to impede their proper action. With the two pawls, as described, the strain in unscrewing or screwing up a nut is divided between them, and thus the point of each pawl has to bear but half the strain that it would were there to be but one pawl to the stock and rotary head. By applying the said rotary head to a nut and imparting to the stock a reciprocating rotary movement on the head the nut may be either screwed up or unscrewed from its screw.

Furthermore, the handle part of the stock has a long slot or opening, *k*, extending through it from its head nearly to its outer end. This enables the stock to be held with greater security while the implement may be in use, and it also enables the handle to be hung upon a hook on the side of a wall or chest.

I claim as my invention as follows, viz:

1. The improved coach-wrench consisting of the socketed rotary, flanged, and ratcheted head, the socketed and rabbeted stock, the push and draw pawls, and the flanged ring, all arranged and combined substantially as set forth.

2. The socketed stock provided with the guards, and having the push and draw pawls and their springs combined with it, and arranged with such guards, as described, in combination with the socketed head and its holding-ring, and its fastening-screws, all being essentially as shown and described.

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Witnesses:

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