

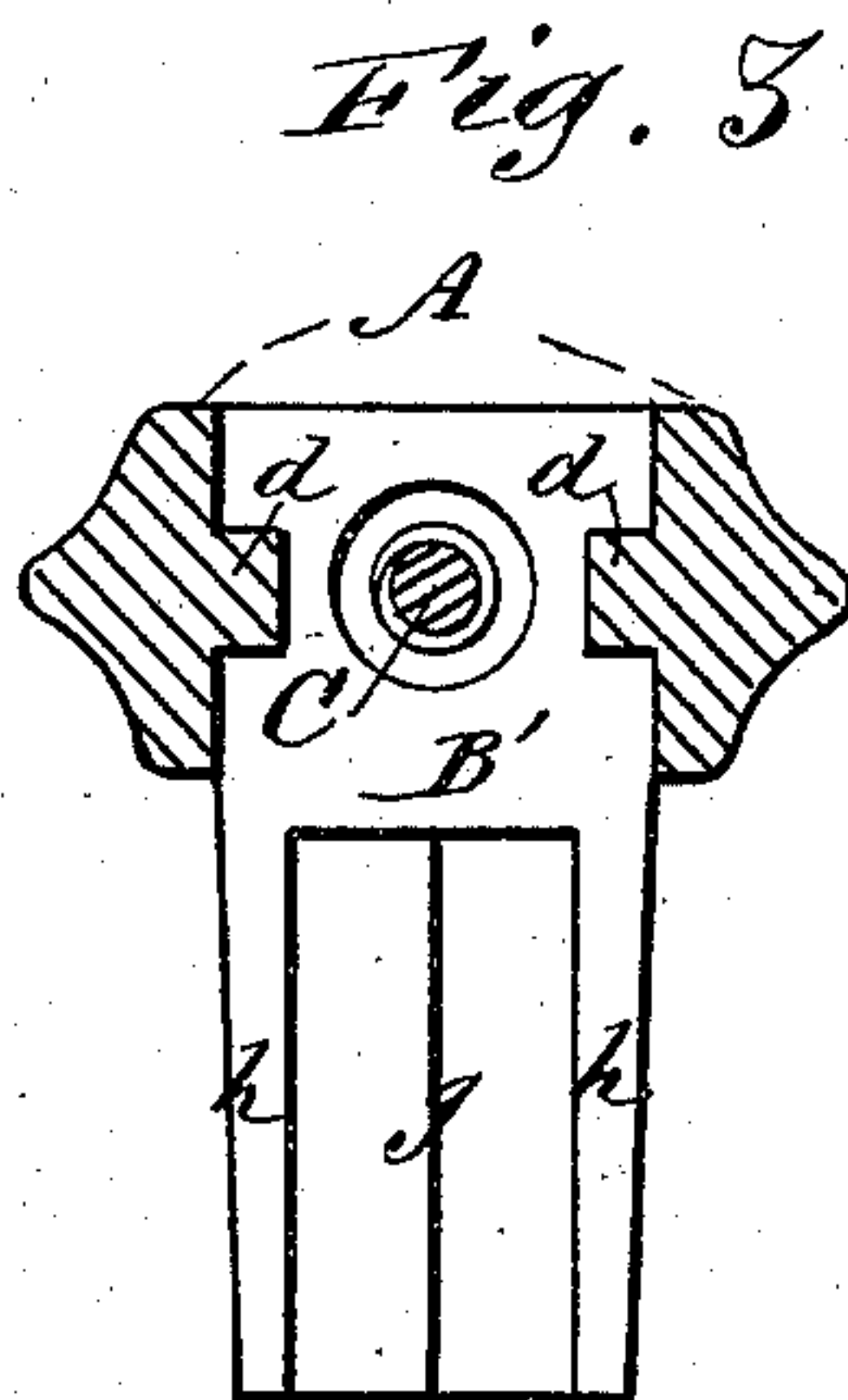
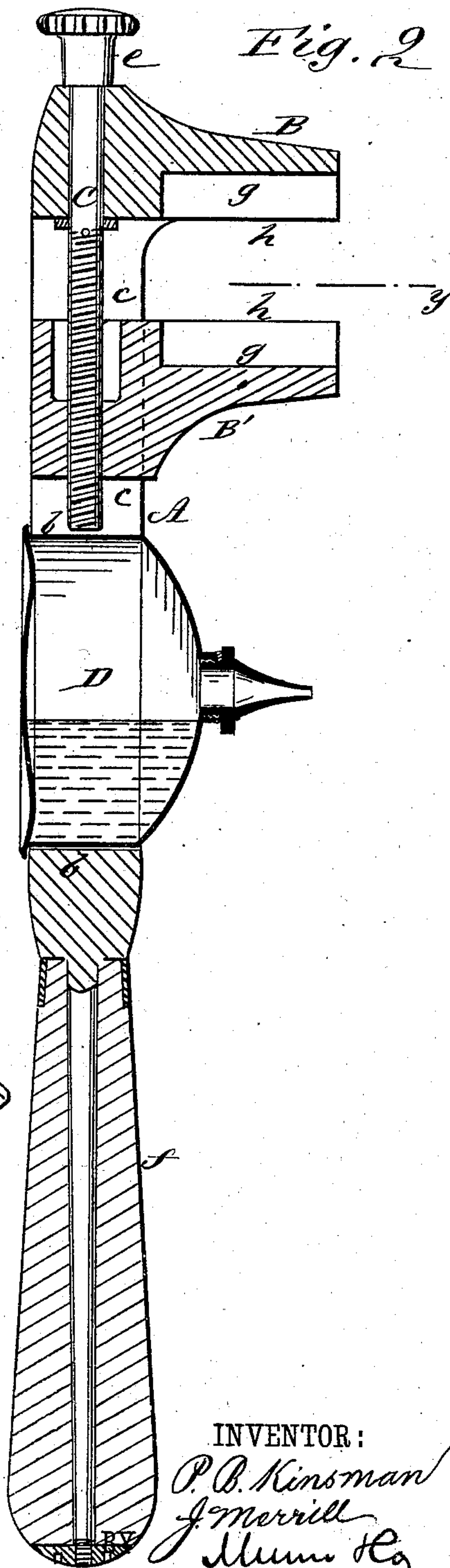
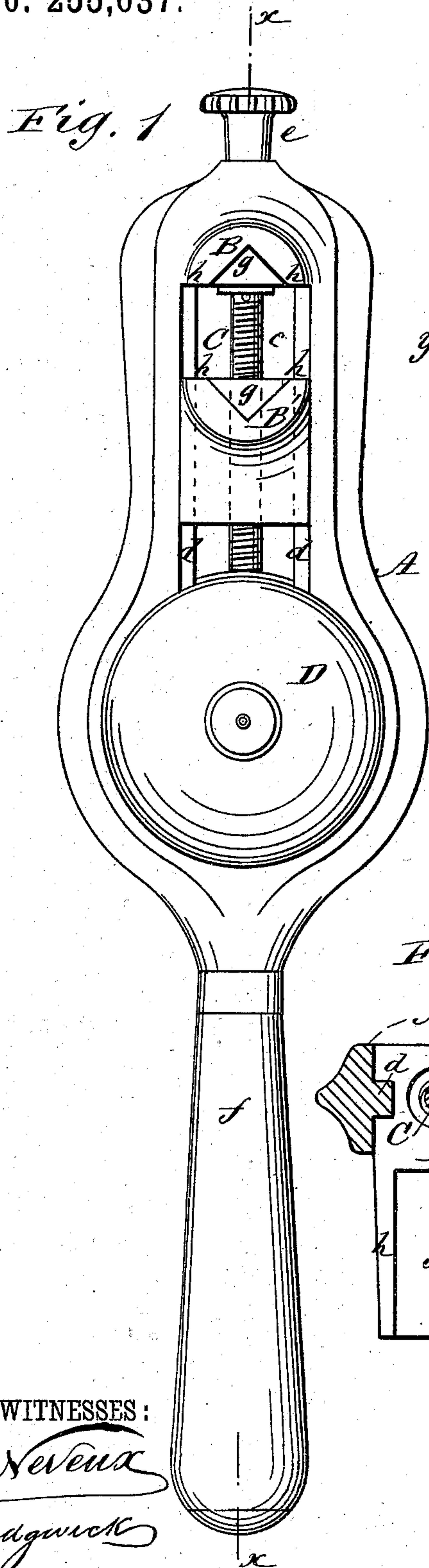
(Model.)

P. B. KINSMAN & J. MERRILL.

CARRIAGE WRENCH.

No. 255,637.

Patented Mar. 28, 1882.



WITNESSES:  
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# UNITED STATES PATENT OFFICE.

PRESCOTT B. KINSMAN AND JOSIAH MERRILL, OF GREAT FALLS, N. H.

## CARRIAGE-WRENCH.

SPECIFICATION forming part of Letters Patent No. 255,637, dated March 28, 1882.

Application filed January 19, 1882. (Model.)

*To all whom it may concern:*

Be it known that we, PRESCOTT B. KINSMAN and JOSIAH MERRILL, both of Great Falls, in the county of Strafford and State of New Hampshire, have invented a new and useful Improvement in Carriage-Wrenches, of which the following is a full, clear, and exact description.

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

Figure 1 represents a face view of a carriage-wrench, with oiler combined, in accordance with our invention; Fig. 2, a longitudinal section of the same on the line *x x* in Fig. 1, and Fig. 3 a transverse section thereof on the line *y y* in Fig. 2.

The object of our invention is mainly to improve carriage-wrenches, so that the movable jaw may be taken out or put in the stock without taking out the screw, and to so arrange the oiler with respect to the stock and the jaws that the thumb of the same hand which holds the wrench may operate the oiler without reversing the wrench. The means by which these objects are accomplished will first be described in connection with the drawings, and then pointed out in the claims.

The stock A of the wrench, as represented in the drawings, is of a flattened or spread construction in direction of its width, and is formed with a circular opening, *b*, near its handle end, and with a longitudinal slot, *c*, extending from said circular opening to the fixed jaw B at the head of the wrench. The opposite side walls of this longitudinal slot *c* have ribs *d d*, which serve to support and guide the movable jaw B' of the wrench, said movable jaw being suitably grooved to fit said ribs, and being adjustable toward or from the fixed jaw B by means of a screw, C. This screw is fitted to pass through the head or fixed jaw end portion of the wrench, and so that a plain portion of its shank is free to turn therein; but it is restrained from longitudinal movement by a finger-piece or knob, *e*, on its outer end, by which the screw is operated, and by a washer on the inside of the head, secured by a pin passed through the screw. The thread-

ed portion of said screw fits within a correspondingly threaded portion of the movable jaw B'.

The extended or circular opening *b* in the stock provides for entering the movable jaw B' within the slot *c*, but is more particularly designed to receive or hold within it an oiler, D, that thus occupies an immediate position between the movable jaw B' and the handle *f* of the wrench. Said oiler may be of ordinary construction, with a spring-bottom for ejecting the oil by the pressure of the thumb. It may be secured to the wrench in any suitable way.

The jaws B B' are made of considerable length, and so that they will receive within them the nuts or carriage-axles of different sizes. Said jaws have V-shaped recesses *g g* in their faces, and flattened marginal surfaces *h h* on opposite sides of their faces, whereby they are adapted to grasp the nut either with an opposite angular or flat gripe, whichever is most convenient.

The wrench generally, with the exception of the handle, which may be of wood, is made of any suitable metal.

A wrench constructed substantially as hereinbefore described, and having an attached oiler, will be found a useful appendage to any carriage, and, occupying but little room in the carriage, will be always at hand. When applied to the nut on the axle of a carriage it holds the nut and keeps it from dropping or becoming clogged with sand or dirt, and the hand of the manipulator does not come in contact with the nut to become soiled or daubed with oil or grease, which it is difficult to remove, as is customary with other wrenches when fitting the nut on by hand; but in using this improved wrench one hand is left free to handle and turn the wheel, while the operator with the thumb of his other hand, which holds the wrench, works the oiler.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. The combination, with the stock A, having a fixed end jaw, B, and opening *b*, the slot *c*, extending between said opening and fixed jaw, and the ribs *d d*, arranged in said slot, of

the screw C, swiveled in said fixed end jaw and adapted to receive the movable jaw B' from the opening *b*, as described.

2. A carriage-wrench having the jaws and the oiler D arranged on the same side of its stock and at right angles thereto, said oiler being placed between the handle and jaws, whereby the thumb of the same hand which holds the wrench can operate the oiler without reversing the wrench, as described.

3. The combination of the stock A, having

an opening, *b*, and longitudinal slot *c*, communicating with opening *b*, the oiler D, movable jaw B', the fixed jaw B, and the operating-screw C, arranged to pass through the head or fixed jaw end portion of the wrench, substantially as shown and described.

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