

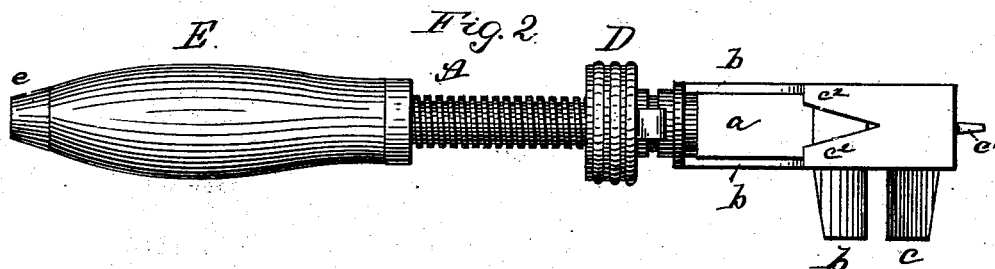
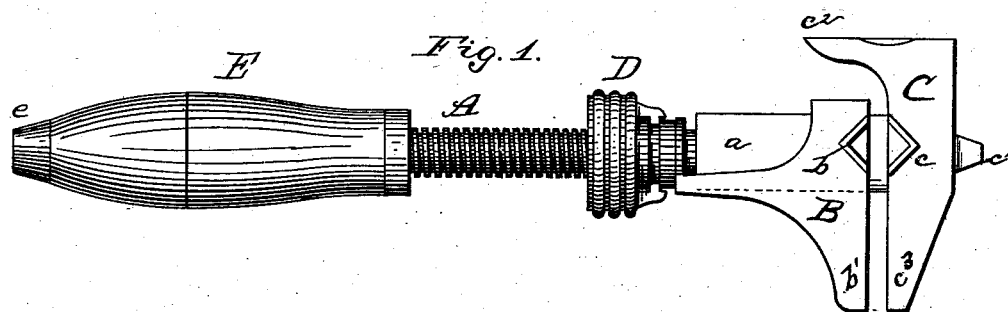
(No Model.)

J. S. GREENLEAF.

MONKEY WRENCH.

No. 260,292.

Patented June 27, 1882.



Witnesses:

J. B. Garner.
H. J. Elsgood.

Inventor:
Jonas S. Greenleaf.

per Edward A. Tamm

Att'y.

UNITED STATES PATENT OFFICE.

JONAS S. GREENLEAF, OF FARGO, DAKOTA TERRITORY, ASSIGNOR OF ONE-HALF TO FRANK SCOTT BERRY, OF MERCER, MAINE.

MONKEY-WRENCH.

SPECIFICATION forming part of Letters Patent No. 260,292, dated June 27, 1882.

Application filed April 23, 1882. (No model.)

To all whom it may concern:

Be it known that I, JONAS S. GREENLEAF, a citizen of the United States, residing at Fargo, in the county of Cass and Territory of Dakota, have invented certain new and useful Improvements in Monkey-Wrenches, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to combination-tools; and it consists of the arrangement and construction of its parts, as will hereinafter be described, and pointed out in the claim.

In the drawings, Figure 1 is a side elevation, and Fig. 2 a back view, of my invention. A is the standard or main body of the device; B is the movable jaw; C, the fixed or immovable jaw. D is the swivel-nut, and E the handle.

The standard A commences at *e*, where it is threaded, passes through the handle E, above which it is threaded as far as the guiding-neck *a*. It is provided with the 7-shaped head C, as shown.

The movable jaw B is of the form used in ordinary monkey-wrenches, and is provided with a V-shaped projection on the upper edge of its flat side, the concavity of which is toward the head C, as shown. It is also provided with a grasping-face, *b'*, as shown. The stationary jaw or head of the wrench C is also provided with a V-shaped projection, *c*, situ-

ated upon the same side and immediately adjacent to the projection *b*, and having its concavity toward said projection, so that when the jaws are together the two projections combine to form a square socket-wrench, which can be made to fit nuts of different sizes by proper adjustment of the jaw B. The head C is also provided with a grasping-face, *c'*, arranged to operate with the face *b'*, as shown. The jaw C has also projecting from its upper face a screw-driver, *c'*, as shown. Projecting downwardly from the hammer-headed end of the jaw C is a claw-shaped nail-extractor, *c'*. The swivel-nut D is of common form, and the handle E presents no novelty.

In the uses of my invention are combined a monkey-wrench, nail driver and extractor, screw-driver, and socket or axle-wrench, the novelty of which arrangement is readily apparent.

What I claim is—

The combination of the head C, having the grasping-faces *c'* and *c*, with the sliding jaw B, having the grasping-faces *b'* and *b*, substantially as and for the purposes described.

In testimony whereof I affix my signature in presence of two witnesses.

JONAS S. GREENLEAF.

Witnesses:

GEO. I. FOSTER,
N. B. PINKHAM.