

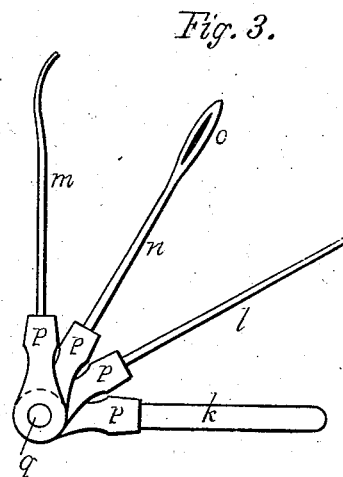
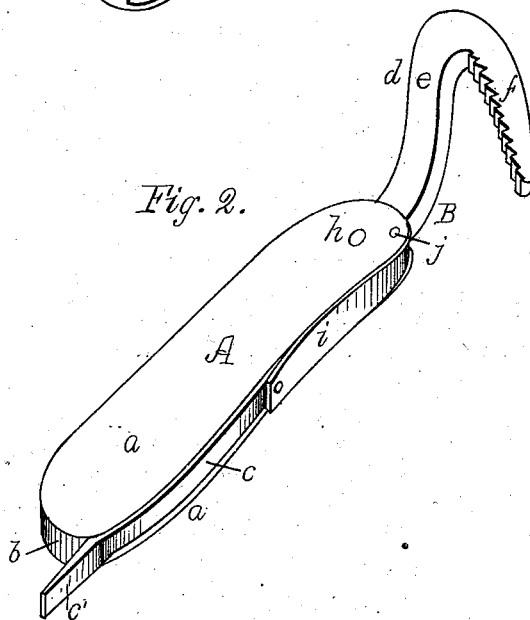
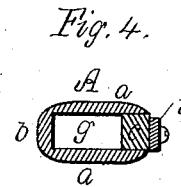
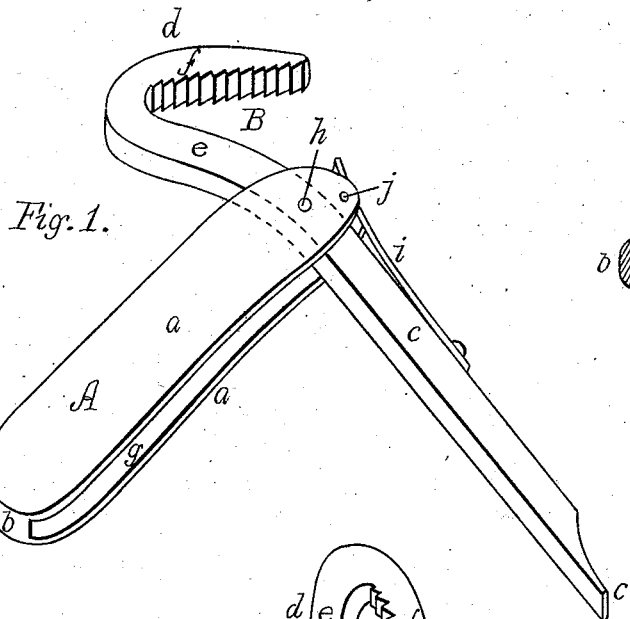
(No Model.)

M. PRIOR.

COMBINATION INSTRUMENT FOR CLEANING GAS COCKS.

No. 259,717.

Patented June 20, 1882.



Witnesses.
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UNITED STATES PATENT OFFICE.

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COMBINATION INSTRUMENT FOR CLEANING GAS-COCKS.

SPECIFICATION forming part of Letters Patent No. 259,717, dated June 20, 1882.

Application filed March 20, 1882. (No model.)

To all whom it may concern:

Be it known that I, MATTHEW PRIOR, a citizen of the United States, residing at Revere, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in a Combination Instrument for Cleaning Gas Cocks or Burners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

The subject of this invention is a combination instrument adapted especially to the purpose of keeping gas-burners in effective condition, though applicable to various purposes; and it consists in a hollow handle of suitable construction to contain a portion of the instrument and having a pipe-wrench pivoted to it, the handle and wrench being so arranged that the shank of the latter serves, when closed, to cover the opening in the handle, and conceal and prevent loss or misplacement of the articles therein.

The drawings accompanying this specification represent, in Figure 1, an isometric elevation of an instrument containing my invention with the pipe-wrench opened to permit of access to the interior of the handle, while Fig. 2 is a like view with the wrench closed and in working condition. Fig. 3 is a view of the implement contained within the hollow handle. Fig. 4 is a vertical section of the handle and wrench.

In the above-named drawings, A represents a handle substantially in the form of the handle of an ordinary pocket-knife, the sides of such handle being shown at *a a*, and the back, which is secured solidly to the sides instead of being in the form of springs, as in pocket-knives, at *b*.

B represents the pipe-wrench as composed of a straight shank or body, *c*, and a terminal U-shaped head, *d*, composed of two jaws, *e f*, the jaw *e* being constructed at an angle with the shank *c*, while the extremity or jaw *f* departs from the jaw *e* at an acute angle, the inner face of the jaw *e* being smooth and that of the jaw *f* serrated or toothed to grasp a cylin-

dric object—such as a gas-pipe—after the manner of pipe-wrenches in general. The free end of the shank *c* is converted into a screw-driver, *c'*, for convenience in loosening and detaching as well as applying the cocks of gas-burners or as a screw-driver for universal use, and the main portion of the said shank *c* is contained within and fills the outer portion or mouth of the opening or chamber *g* of the handle. The shank of the wrench constitutes a cover to the chamber of the handle, and is pivoted within one end of such handle by a pivot, *h*, in order to open or close such chamber. When closed, as shown in Fig. 2, the implement is an effective pipe-wrench and screw-driver, while the pivoting of the shank of the wrench to the handle enables the chamber of the latter to be opened, as in Fig. 1 of the drawings.

To hold the shank of the wrench closed, a plate-spring, *i*, is secured at one end to such shank, and exerts its stress upon a pin, *j*, spanning the two sides of the handle parallel with the pivot *h* and outside of the shank.

The remaining portion of my instrument consists of four implements, which for convenience are connected together by a pivot. These consist, first, of a flat, thin blade, *k*, adapted to clear the slit or orifice of a gas-burner; second, of a round, straight, fine wire, *l*, for clearing the small circular holes formed in some classes of gas-burners; third, in a second stouter wire, *m*, curved at one end, adapted to clean the inside of the parts of a gas-burner; and, fourthly, in a swab composed of a straight shank, *n*, and a loop, *o*, upon its outer end, to contain a bit of cloth, tow, or other material, after the manner of gun-swab sticks, and adapted to clean the interior of a gas burner or pipe. As before stated, these four implements are preferably connected together, and to accomplish this and permit them to be readily used I form each with a flat head, *p*, and I pivot these heads together by a common pivot, *q*, as shown in Fig. 3 of the drawings. When folded compactly the four implements may be stowed within the chamber of the handle of the instrument, and thus deposited occupy no valuable space, and are out of sight as well as protected from misplacement or loss.

The instrument above described is simple,

compact, and may be made at small cost. It is valuable for keeping gas-burners in repair and for various uses in the mechanic arts.

I claim—

5 1. The combined pipe-wrench and screw-driver consisting of the shank *c*, terminating at one end in the screw-driver *c'*, and at the other in the U-shaped head, with its smooth and serrated jaws *e f*, in combination with the
10 chambered handle *A*, the wrench being pivoted to the handle and constituting a cover to its chamber, substantially as explained.

2. The pipe-wrench composed of the shank *c*, with its U-shaped head *d*, in combination
15 with the chambered handle *A*, when the said shank is pivoted to and constitutes a cover to the chamber of the handle, as explained.

3. The combined pipe-wrench and screw-driver consisting of the shank *c*, terminating

at one end in the screw-driver *c'*, and at the 20 other in the U-shaped head, with its smooth and serrated jaws *e f*, in combination with the chambered handle *A*, the wrench being pivoted to the handle and constituting a cover to the chamber, and said chamber being adapted 25 to receive supplemental pivoted tools, substantially as set forth.

4. The combination of a pivoted wrench with a chambered handle, the wrench being pivoted to the handle and constituting a cover to its 30 chamber, substantially as set forth.

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

MATTHEW PRIOR.

Witnesses:

F. CURTIS,

H. E. LODGE.