

(No Model.)

W. F. PARSONS & A. DAVIS.
WRENCH.

No. 467,381.

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Fig: 1.

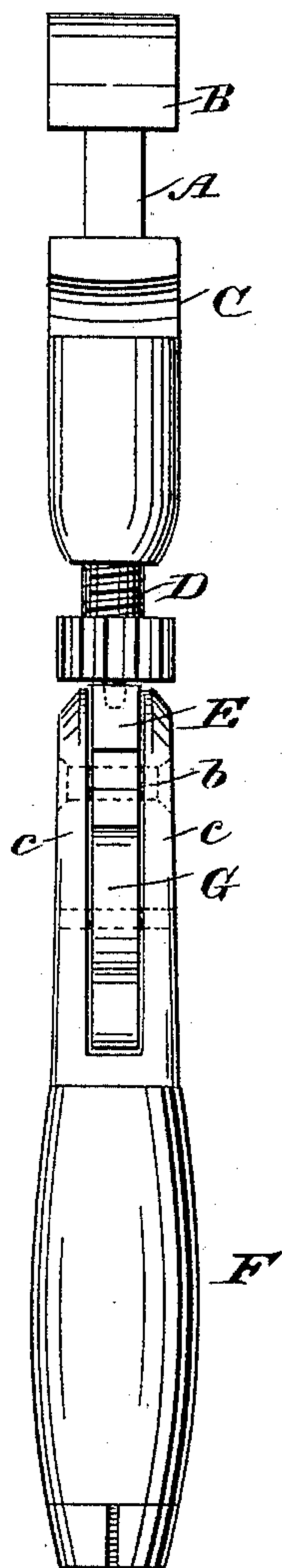
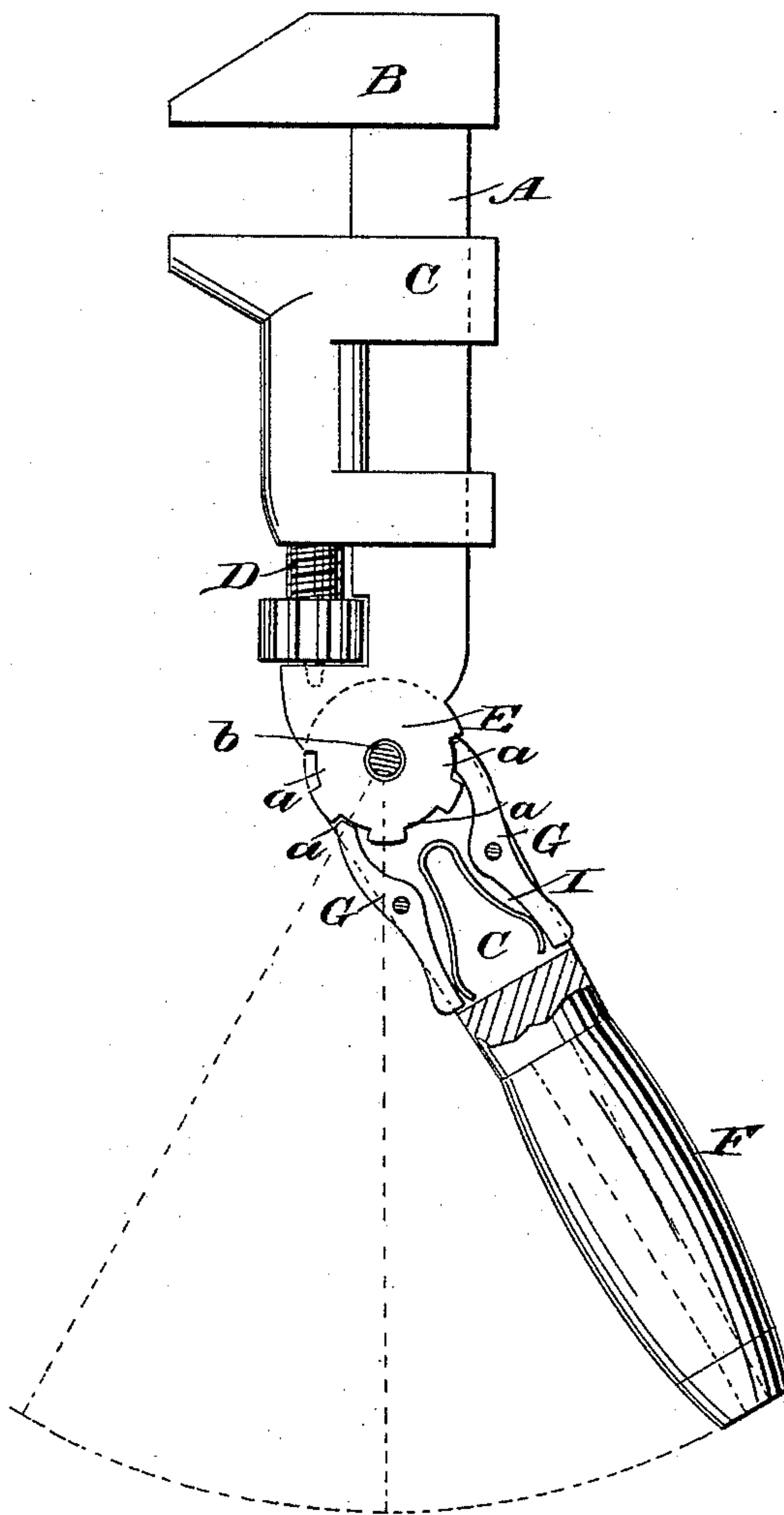


Fig: 2.



WITNESSES:

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WRENCH.

SPECIFICATION forming part of Letters Patent No. 467,381, dated January 19, 1892.

Application filed September 16, 1891. Serial No. 405,870. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM F. PARSONS and ANDREW DAVIS, both of New Kamilche, in the county of Macon and State of Washington, have invented a new and useful Improved Wrench, of which the following is a full, clear, and exact description.

Our invention relates to an improvement in wrenches having a sliding jaw, and particularly to such as are technically termed "monkey-wrenches."

The object of our invention is to provide a monkey-wrench with a jointed handle-bar, which will facilitate the manipulation of the tool when used to adjust bolts or nuts where access is not afforded to allow a free vibration of the handle-bar.

To this end our invention consists in the construction of parts and their combination, as is hereinafter described and claimed.

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 both the figures.

Figure 1 is an edge view of the implement, and Fig. 2 is a side view, partly broken, showing the improvement.

The handle-bar A has a fixed jaw B and a sliding jaw C, of the usual form, the latter-named piece being adjusted on the straight portion of the handle-bar by a rotatable screw D in the ordinary manner. The terminal E of the handle-bar A, that is opposite the fixed jaw B, has a curvilinear edge, which is notched at proper intervals, as shown at *a* in Fig. 2. Said portion, being centrally perforated for the introduction of a rivet or bolt *b*, forms a ratchet-head. A grip-piece F is provided, which has two parallel jaws *c* formed on one end, the intervening slot being of sufficient length and width to receive the ratchet-head E of the handle-bar A, and also admit the insertion of two similar locking-dogs G, that are oppositely located and are pivoted between the jaws *c*, having their ends nearest to the bolt or rivet *b* adapted to interlock with the notches *a* in the ratchet-head. Said rivet, having pivoted engagement with the jaws *c*, connects the handle-bar and grip-

piece. There is a spring I placed between the limbs of the dogs G, sufficiently compressed to cause the toes of the latter to simultaneously enter notches *a* of the ratchet-head and retain the grip-piece F at any desired point of angular adjustment with regard to the straight handle-bar A.

In use, if the wrench is adjusted so that the grip-piece F and handle-bar A are in alignment the implement may be employed, as any ordinary adjustable wrench, to turn nuts or bolts so located as to permit free access thereto. Should it be necessary to tighten or loosen a bolt or nut that is close to a corner or near to a vertical wall which will obstruct the free use of a straight-handled monkey-wrench, the improvement becomes available, and the grip-piece F may be quickly swung on the pivot *b* by pressing the limbs of the dogs G toward each other, their subsequent release causing the grip-piece to be locked at an angle to the handle-bar A, so that the wrench may be used in cramped situations and space afforded to grasp the piece F and rock the wrench and a bolt or nut engaged by it.

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

1. A wrench having a laterally-adjustable grip-piece, substantially as described.

2. A wrench provided with a fixed jaw and a sliding jaw on a handle-bar, and a grip-piece laterally adjustable on said handle-bar, substantially as described.

3. The combination, with a straight handle-bar having a fixed jaw and a sliding jaw that is moved by a screw, of a grip-piece having jaws that embrace a ratchet-head on one end of the handle-bar and are thereto pivoted, and two pivoted spring-actuated locking-dogs on the grip-piece, which engage their toes with the notches of the ratchet-head, substantially as described.

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Witnesses:

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