(No Model.)

H. POLIS.

WRENCH AND BIT STOCK.

No. 526,658. Patented Sept. 25, 1894.

Fig. 1.

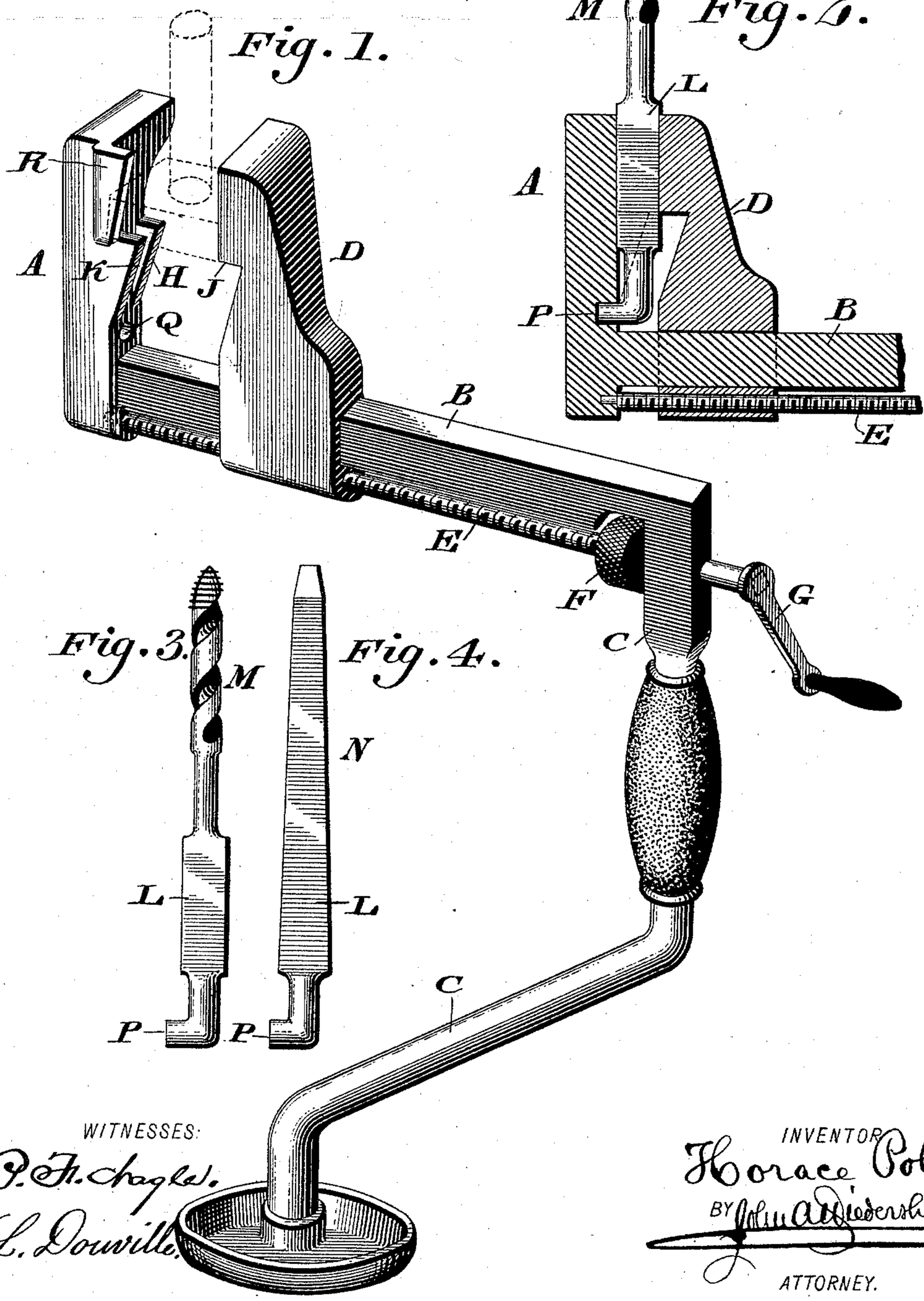

Fig. 2.

Fig. 3.

Fig. 4.

WITNESSES:

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HORACE POLIS, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO LAWRENCE F. MOONEY, OF SAME PLACE.

WRENCH AND BIT-STOCK.

SPECIFICATION forming part of Letters Patent No. 526,658, dated September 25, 1894.

Application filed April 16, 1894. Serial No. 507,669. (No model.)

To all whom it may concern:

Be it known that I, HORACE POLIS, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in a Wrench and Bit-Stock, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a wrench and bit-stock formed of jaws, with means substantially as described for operating the movable jaw from opposite sides of the handle arm.

It also consists in providing one of the jaws with a shoulder for supporting a nut, bolt-head, &c., and in providing the other jaw with a recess to receive said jaw, whereby when the jaws are closed, they are braced one by the other on their inner faces.

It also consists in providing one of the jaws with a flange which overlaps the other jaw, thus forming an abutment for the shank of an applied tool.

It also consists in providing the jaws with means for sustaining an auger-bit, screw-driver or other tool thereon.

Figure 1 represents a perspective view of a wrench and bit-stock embodying my invention. Fig. 2 represents a section of a portion thereof. Figs. 3 and 4 represent side elevations of tools that may be held and operated by the device.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings: A designates a jaw which is fixed to the shank B, the latter having connected with it the handle-arm C.

D designates the movable jaw which is freely mounted on the shank B, so as to slide thereon, and has fitted to it the screw E, one end of which is stepped in the jaw A, and the other end mounted on the portion of the arm C adjacent to the shank B, said screw having connected with it, on opposite sides of said arm, the milled head or wheel F, and the crank handle G, for conveniently moving the jaw D, for setting or adjusting the two jaws relatively to the size of the object to be grasped by the same.

Projecting from the inner face of the jaw A, are the shoulders H, and the opposite portion of the inner face of the jaw D, has a recess J to receive said shoulders. The inner face of the jaw A is recessed as at K to receive the shank L, of an auger-bit M, or that of a screw-driver N, the end of either of said tools having a laterally-projecting lug P thereon, the same being adapted to enter a recess Q in the inner face of the jaw A, at or near the base of the shoulders H, it being evident that when the tool is in position, and the jaws are closed, the shank is firmly held between the same, and prevented from shifting, it being noticed that the shoulders H occupy the recess J. On the side of the jaw A is a flange R, the same being adapted to overlap the side of the jaw D, by which provisions the jaws are braced one on the other, and thus firmly sustained during the operation of the tool.

When the jaws are opened and the tool is removed, a nut or the head of a bolt or other object may be placed between the jaws and rested on the shoulders H, thus sustaining the same during the operation of the device, in order to rotate said nut, bolt, &c.

Owing to the wheel F and crank handle G, the jaw D may be moved by either of the same, a matter of convenience for operation of the device when in inconvenient places, and permitting the use of the handle or the finger, as may be most practical in opening the jaws by the rotation of the screw E.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A handle-arm, a shank thereon, and fixed and movable jaws on said shank, in combination with a screw mounted on said arm and fixed jaw and fitted in said movable jaw, and operating devices for said screw on opposite sides of said arm, the end of said screw being extended through said arm for direct connection with both of said operating devices, substantially as described.

2. A wrench and bit stock having a shank with fixed and movable jaws thereon, one of said jaws having shoulders thereon, and the other jaw having a recess to receive said shoulders, the first mentioned jaw having a

recess at or near the base of said shoulder to receive a lug of an applied tool, said parts being combined substantially as described.

3. A wrench and bit stock, having a shank provided with fixed and movable jaws, one of said jaws having shoulders thereon, and the other jaw having a recess to receive said shoulders, one of the jaws having on its inner face a recess to receive a lug of an applied tool, and the flange R on its side, substantially as described.

4. A wrench and bit stock having a shank with fixed and movable jaws thereon, one of said jaws having a shoulder and a recess on its inner face and the other jaw having a recess on its inner face to receive said shoulder, said recess on the first mentioned jaw being adapted to receive the shank of a tool, said parts being combined substantially as described.

5. In a wrench and bit-stock, a jaw having a recessed shoulder and a recessed face, in combination with the opposite jaw having a recess to receive said shoulder, a shank carrying said jaws, means for adjusting said jaws and a handle arm for said shank, the recesses of said shoulder and face being adapted to receive the shank and lug of a tool which is clamped by said jaws, substantially as described.

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