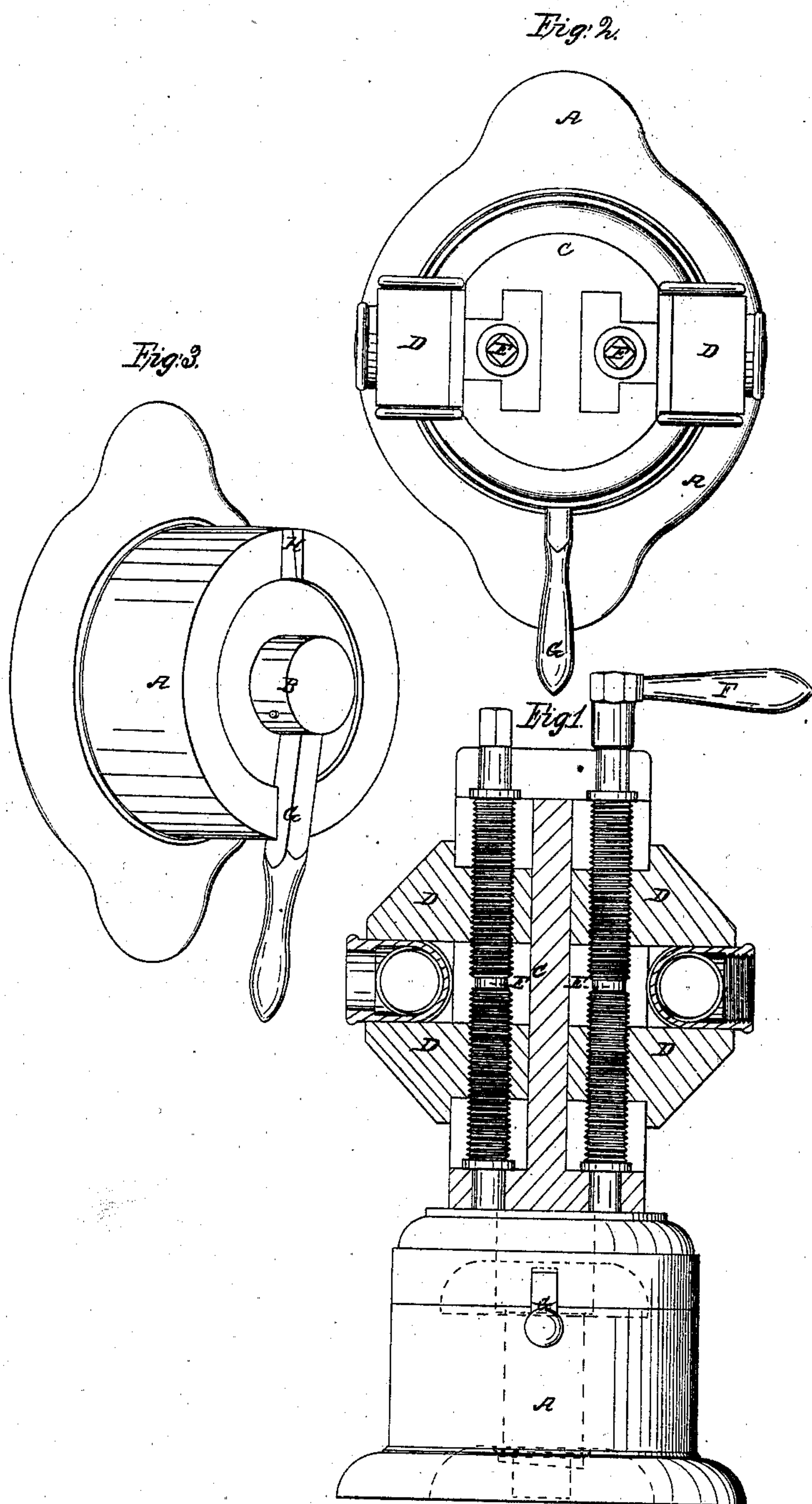


C. C. Walworth,

Vise,

No. 15,862,

Patented Oct. 7, 1856.



Witness
J. C. Smith

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UNITED STATES PATENT OFFICE.

CALEB C. WALWORTH, OF BOSTON, MASSACHUSETTS.

WISE.

Specification of Letters Patent No. 15,862, dated October 7, 1856.

To all whom it may concern:

Be it known that I, CALEB C. WALWORTH, of the city of Boston, in the county of Suffolk and State of Massachusetts, have invented
5 a new and Improved Vise; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, and the letters of refer-
10 ence thereon marked.

Figure 1 is a sectional elevation. Fig. 2, a plan, and Fig. 3, an angular view of the base showing notches therein.

Similar letters indicate similar parts in
15 all the figures.

The nature of my invention consists in certain devices whereby two vises are so arranged as to revolve about a common center, and which may be locked firmly in any de-
20 termined position for the purpose of facilitating the performance of certain mechanical operations, and which I call a "compound revolving vise."

The particular use to which I have ap-
25 plied my invention is to hold "gas pipe fittings" for the purpose of tapping, screwing and boring them.

To enable others skilled in the art to make and use my invention I will describe its con-
30 struction and operation.

(A) is the base or bed which supports the vise and by which the vise is secured on the machine to which it is to be applied; a hole in the base receives the pivot (B) (seen in
35 dotted lines in Fig. 1) secured at the bottom by a pin and washer or other suitable device from being withdrawn, but allowed to revolve freely therein. Above the base the compound vise is firmly secured to the
40 pivot; it consists of an upright cylinder (C) with grooves made within it in which are fitted the jaws (D D D D) so as to slide vertically therein, each pair of which is actuated by a right and left hand screw
45 (E) and is worked independent of the other by means of the wrench or handle (F): the opening of the jaws always being equi-distant from a middle position. A lever (G)

jointed to the pivot (B) passes through a corresponding aperture in the vise and
50 drops into either of the notches (H) in the base, thus locking the vise in either position and when raised forms a convenient means of revolving the vise about its center.

The operation of the compound revolving
55 vise is as follows: It is secured by the base in its proper position to the machine for tapping "fittings;" the article to be tapped is secured in one pair of the jaws by turning its screw in the proper direction, then
60 by raising the lever (G) and turning the vise with it one half a revolution the "fitting" to be tapped is presented in its proper position to be operated upon by the machine for that purpose, the lever is dropped
65 into the notch and the vise is locked secure from turning. While the first "fitting" is being tapped the operator secures another "fitting" in the opposite pair of jaws which is now nearest to him; the first fitting being
70 finished the lever (G) is raised and the vise turned one half a revolution and locked by the lever dropping into the opposite notch in the base, presenting the second "fitting" to the operation of tapping: the first one is
75 meanwhile removed and a new one substituted and the operation described repeated.

The operator by this device is enabled to keep his machine in operation all the time ordinarily employed in removing and re-
80 placing the article to be wrought upon, thereby increasing the product of the machine.

Having thus described my invention what I claim as new and desire to secure by Let-
85 ters Patent of the United States is:

The arrangement of two vises so as to revolve about a common center, and locking the same in any desired position by means of the lever (G) and notches or any other
90 suitable device, substantially in the manner and for the purpose set forth.

C. C. WALWORTH.

Witnesses:

G. B. CROSBY,
M. H. MERRIAM.