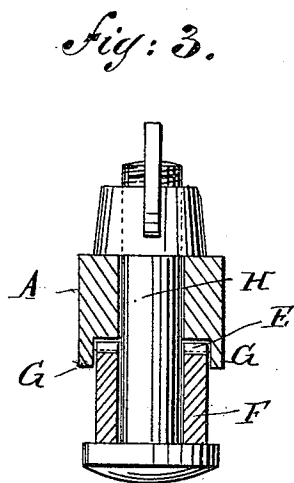
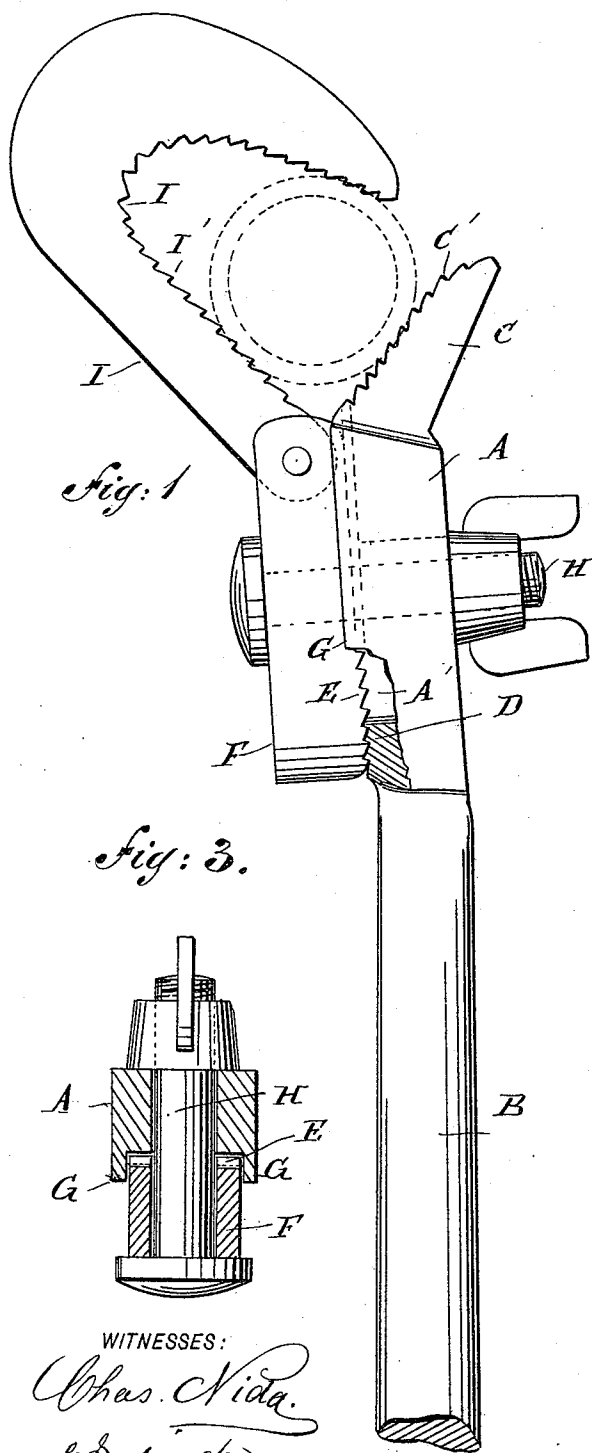


(No Model.)

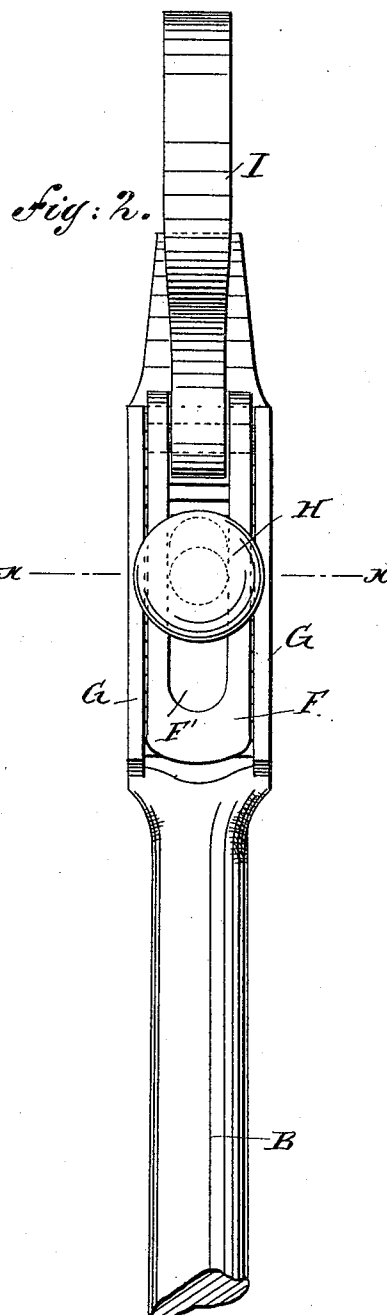
B. B. FARRIS.
WRENCH.

No. 448,013.

Patented Mar. 10, 1891.



WITNESSES:
Chas. Nida.
E. Sedgwick



INVENTOR.
B. B. Farris
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ATTORNEYS

UNITED STATES PATENT OFFICE.

BENJAMIN BLANTON FARRIS, OF ROCKY FORD, GEORGIA.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 448,013, dated March 10, 1891.

Application filed December 13, 1890. Serial No. 374,541. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN BLANTON FARRIS, of Rocky Ford, in the county of Scriven and State of Georgia, have invented a new and Improved Wrench, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved wrench, which is simple and durable in construction and readily adjusted to firmly grip larger or smaller work.

The invention consists of certain parts and details and combinations of the same, as will be hereinafter fully described, and then pointed out in the claims.

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 all the figures.

Figure 1 is a side elevation of the improvement with parts broken out. Fig. 2 is a rear elevation of the same, and Fig. 3 is a sectional plan view of the same on the line *x x* of Fig. 2.

The improved wrench is provided with a stock A, on one end of which is formed a handle B, and on its other end is formed an angularly-extending jaw C, provided with serrations C'. On one side of the stock A are formed serrations D, engaged by correspondingly-shaped serrations E, formed on the inside of a head F, fitted to slide on the stock A between two parallel flanges G, formed near the edge of the said stock A. (See Figs. 2 and 3.) A bolt H serves to fasten the head F to the stock A, the said bolt passing through a longitudinal slot A', formed in the stock A, and through a slot F' in the head F. On the upper end of the sliding head F is pivoted a hook-shaped jaw I, provided on its inside with serrations I', arranged opposite the serrations C' of the fixed jaw C, as is plainly illustrated in the drawings.

The device is used as follows: In order to adjust the jaw I according to the size of the work under treatment, the operator loosens the bolt H and then slides the head F outward or inward, according to larger or smaller work, then screwing up the bolt H, so as to securely fasten the head F to the stock A. The parallel flanges G prevent sidewise dis-

placement of the head F and its jaw I, while the serrations D and E, in connection with the bolt H, prevent longitudinal displacement of the head and jaw. When the head F is in the proper position, the work is engaged at one side by the serrations C' of the angular jaw C, and then the hook I is swung over so as to grip the work either at the opposite side or at two opposite places, standing about at right angles to the serrations on the fixed jaw C, as indicated in Fig. 1. The operator then, by taking hold of the handle B, works the wrench in the usual manner, which tends to turn the work. It will be seen that when the operator takes hold of the handle B to turn the work the hooked jaw has the tendency to be firmly drawn toward the fixed jaw C, so that the wrench does not slip on the work.

By providing both the stock A and the head F with slots a very accurate adjustment of the head F can be obtained, so as to bring the jaws I and C into the proper relation with each other, according to the work under treatment. The head F, as shown in the drawings, is made U-shaped and carries in its ends a pivot-pin, on which the jaw I is turned. The bolt H passes between the two arms of the U-shaped head, which arms form, really, the slot F'.

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

1. A wrench comprising a handled stock provided with an angular jaw, a head fitted to slide on the said stock, a bolt for fastening the said head to the stock, and a hooked jaw pivoted on the said head, substantially as described.

2. In a wrench, the combination, with a handled stock provided with an angular jaw and a longitudinal slot, of a head fitted to slide in the said stock and provided with a slot in line with the slot of the stock, a bolt engaging the said head and stock and passing through the slots therein, and a hinged jaw pivoted on the said head, substantially as shown and described.

3. In a wrench, the combination, with a stock provided with an angular jaw and parallel flanges, of a head pivoted to slide between the said flanges, a bolt for locking the

said head to the said stock and passing through slots in the said head and stock, and a hooked jaw pivoted on the said head, substantially as shown and described.

- 5 4. In a wrench, the combination, with a stock provided with an angular jaw, parallel flanges, and serrations between the said flanges, of a head provided with serrations adapted to engage the serrations on the stock,

a bolt passing through slots in the said head 10 and stock and adapted to lock the two together, and a hooked jaw pivoted on the said head, substantially as shown and described.

BENJ. BLANTON FARRIS.

Witnesses:

HENRY HERMANN,
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