

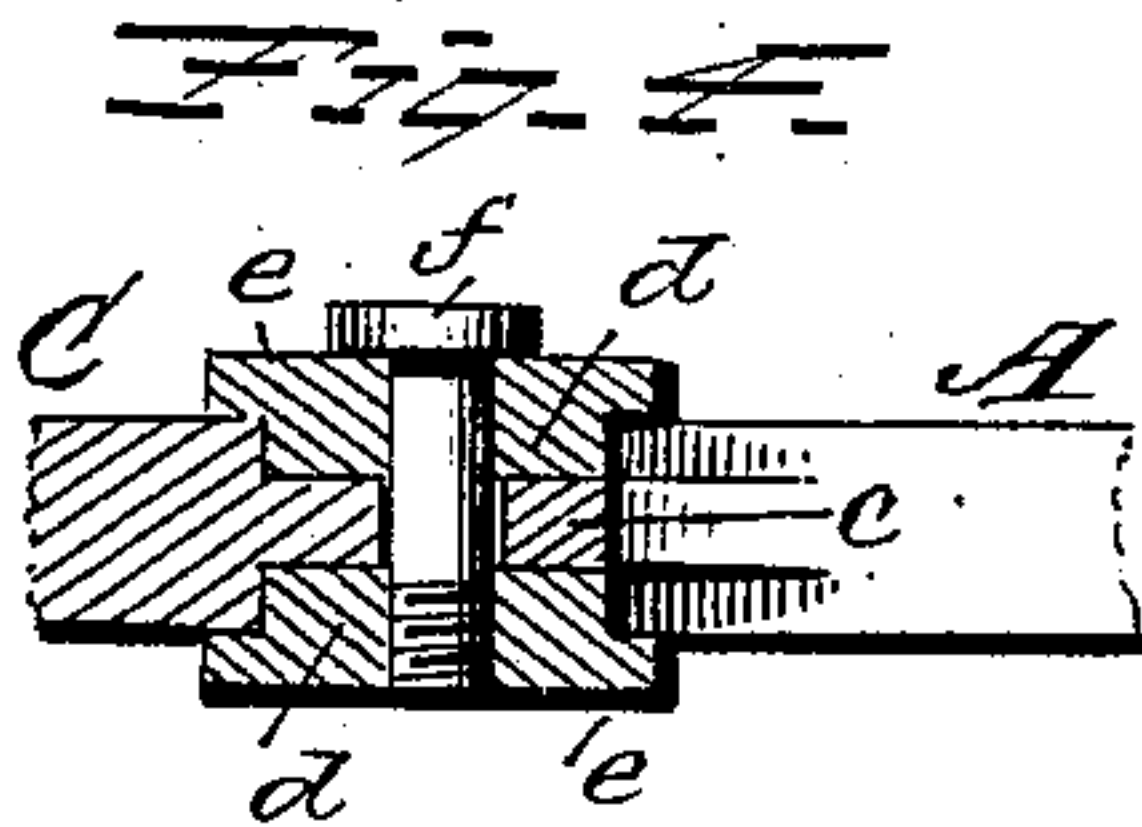
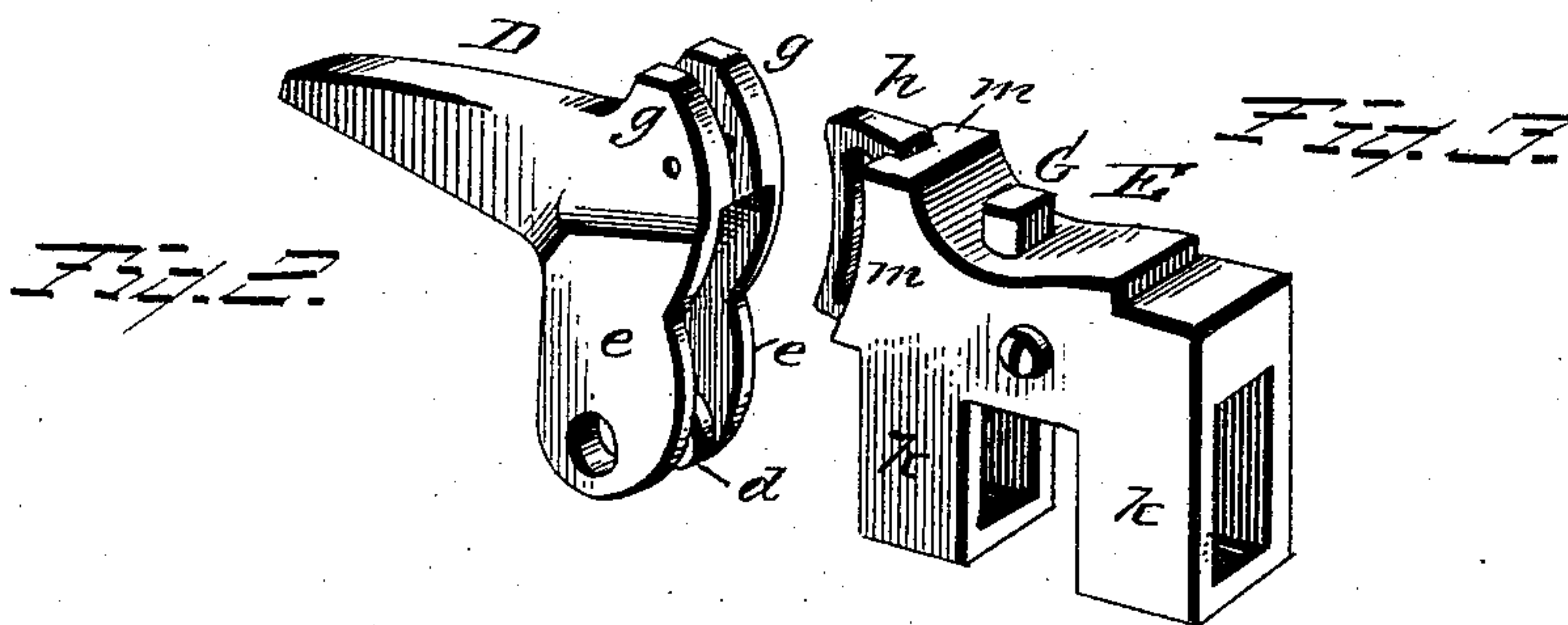
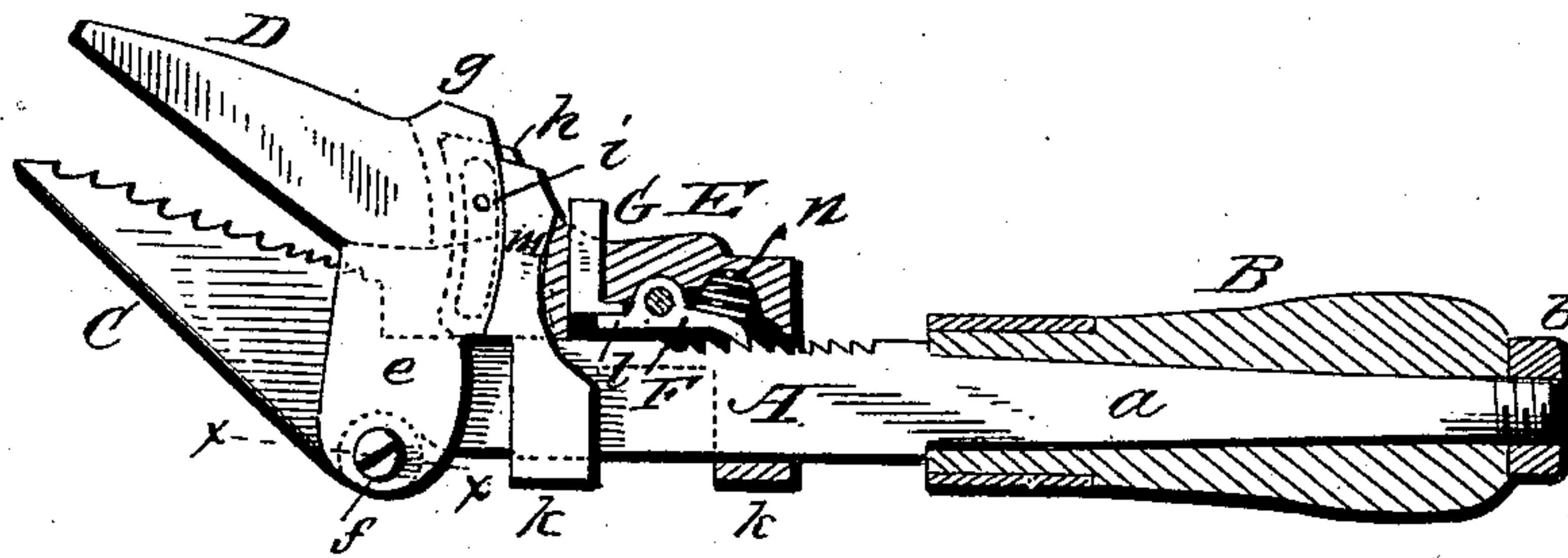
(No Model.)

I. SHERCK.
WRENCH.

No. 585,125.

Patented June 22, 1897.

Fig. 1.



Witnesses:
J. Williamson
Wm. Boone

Inventor
Isaac Sherck.
per Cha. H. Fowler.
Attorney

UNITED STATES PATENT OFFICE.

ISAAC SHERCK, OF FLAT ROCK, OHIO.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 585,125, dated June 22, 1897.

Application filed April 19, 1897. Serial No. 632,723. (No model.)

To all whom it may concern:

Be it known that I, ISAAC SHERCK, a citizen of the United States, residing at Flat Rock, in the county of Seneca and State of Ohio, have invented certain new and useful Improvements in Wrenches; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has reference to that class of wrenches in which are employed a stationary jaw and a pivoted jaw held in its adjusted position by a spring-actuated pawl engaging with the teeth upon the bar of the stationary jaw.

It is the purpose of the invention to improve the construction of the above class of wrenches whereby they will be more effective in their operation, giving a more perfect grip, as well as possessing the necessary strength and durability.

The invention consists in a wrench constructed substantially as shown in the drawings and hereinafter described and claimed.

Figure 1 of the drawings is a side elevation of the wrench, partly in section; Fig. 2, a detail perspective view of the pivoted jaw; Fig. 3, a similar view of the sliding head; Fig. 4, a detail sectional view taken on line *xx* of Fig. 1.

In the accompanying drawings, A represents the usual bar of a wrench provided with ratchet-teeth upon its inner side and terminating in a shank *a*, upon which is fitted the handle B, which is held thereon by a screw-nut *b*, engaging with the projecting screw-threaded end of said shank. The bar A has a stationary jaw C, disposed at an obtuse angle to the length of the bar A, and upon its inner face has suitable gripping-teeth of the usual construction. Between the jaw C and the bar A is a web *c*, which joins the two together and forms seats upon its opposite sides to receive the shoulders *d* upon the inner sides of arms *e*, which project at substantially right angles to the jaw, the plates being pivoted to the web by means of the screw-threaded pin *f*. The plates *e* have extensions *g* upon the opposite side of the jaw D, and between these extensions is a curved

slotted flange *h*, which is held between the extensions by a pin *i*, passing through the same and through the slot of the flange, thereby forming a connection between the jaw D and the sliding head E. This sliding head E has the usual loops *k*, through which the bar A passes, and is provided with a spring-actuated pawl F to engage with the ratchet-teeth on the bar A. A coiled spring *n* bears against the engaging end of the pawl F to retain the same in engagement with the ratchet-teeth on the bar A, and the opposite end of the pawl terminates in a bearing extension *l* for receiving the presser-foot G.

When it is desired to use the wrench, the presser-foot G is depressed with the thumb or finger, which will raise the engaging end of the pawl F from contact with the ratchet-teeth of the bar A. This will allow the head E to be moved on the bar A, which carries with it the movable jaw D, said jaw moving on the arc of a circle by reason of the curved slot in the flange *h*, which acts as a cam in connection with the pin *i*. When the jaws are in operation, the strain of the jaw D will come on the curved bearings *m*, formed on the head E, and also the plates *e* will bear against the shoulders formed by the web *c* with the juncture of the jaw C and bar A. This forms a very perfect and strong reinforce for the movable jaw, giving it both strength and durability, that are necessary in heavy work, as well as providing compactness and preventing the jaw from springing.

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

1. A wrench consisting of a ratchet-bar and stationary jaw disposed at an obtuse angle thereto, a head slidable upon the bar, a spring-actuated pivoted pawl to engage with the ratchet-teeth on the bar and means for operating the pawl, and a pivoted jaw connecting with the head by means of curved slot and pin, substantially as and for the purpose set forth.

2. A wrench consisting of a ratchet-bar, a stationary jaw thereon disposed at an obtuse angle to the bar, a web connecting the bar with the jaw, a movable jaw having plates at substantially right angles thereto and having flanges which fit down against the faces

of the web and pivoted thereto, a slidable head upon the bar, a spring-actuated pivoted pawl connected to the head and adapted to engage the teeth upon the bar, and means
5 for connecting the movable jaw to the head, consisting of a flange having a curved slot and a pin extending through the slot and through extensions of the movable jaw, substantially as and for the purpose specified.
10 3. A wrench consisting of a ratchet-bar having a stationary jaw disposed at an obtuse angle thereto, a pivoted jaw, a head slidable upon the ratchet-bar, a spring-actuated pawl having a bearing extension and carried by
15 said head, a presser-foot adapted to engage

with the bearing extension to bring the pawl out of engagement with the teeth upon the bar, and means for connecting the movable jaw with the head, consisting of a flange having a curved slot to act as a cam, and a pin 20 acting in connection therewith, substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ISAAC SHERCK.

Witnesses:

J. H. DIEHL,
J. W. WOLFE.